



National Center for Science and  
Engineering Statistics

## Data Tables Report

# Higher Education Research and Development: Fiscal Year 2024

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## General Notes

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This report provides data from the FY 2024 Higher Education Research and Development (HERD) Survey. The survey is an annual census of academic institutions that expended at least \$150,000 in separately accounted-for research and development (R&D) in the fiscal year.

The tables present data on R&D expenditures at higher education institutions across all academic disciplines and include R&D expenditures by institution, R&D field, geographic area, source of funds, type of R&D (basic research, applied research, and experimental development), cost categories (salaries, software, equipment, and indirect costs), and trends over time.

The National Center for Science and Engineering Statistics (NCSES) has reviewed this product for unauthorized disclosure of confidential information and approved its release (NCSES-DRN25-060).

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**Table 1. Higher education R&D expenditures, by source of funds: FYs 1953–2024**

(Dollars in millions)

Fiscal year	All R&D expenditures <sup>a</sup>	Source of funds				
		Federal government	State and local government	Institution funds	Business	All other sources <sup>b</sup>
1953 <sup>c</sup>	255	138	37	35	19	26
1954	290	160	42	38	22	28
1955 <sup>c</sup>	312	169	47	41	25	30
1956 <sup>c</sup>	372	213	53	43	29	34
1957 <sup>c</sup>	410	229	60	49	34	38
1958	456	254	68	53	39	42
1959 <sup>c</sup>	526	306	76	58	39	47
1960 <sup>c</sup>	646	405	85	64	40	52
1961 <sup>c</sup>	763	500	95	70	40	58
1962 <sup>c</sup>	904	613	106	79	40	66
1963 <sup>c</sup>	1,081	760	118	89	41	73
1964	1,275	917	132	103	40	83
1965 <sup>c</sup>	1,474	1,073	143	124	41	93
1966	1,715	1,261	156	148	42	108
1967 <sup>c</sup>	1,921	1,409	164	181	48	119
1968	2,149	1,572	172	218	55	132
1969 <sup>c</sup>	2,225	1,600	197	223	60	145
1970	2,335	1,647	219	243	61	165
1971 <sup>c</sup>	2,500	1,724	255	274	70	177
1972	2,630	1,795	270	305	74	187
1973	2,884	1,985	295	318	84	202
1974	3,023	2,032	307	370	96	218
1975	3,409	2,288	332	417	113	259
1976	3,729	2,512	364	446	123	285
1977	4,067	2,726	374	514	139	314
1978 <sup>d</sup>	4,625	3,059	414	623	170	359
1979	5,366	3,598	472	735	193	368
1980	6,063	4,098	491	835	236	403
1981	6,847	4,571	546	1,004	291	435
1982	7,324	4,768	616	1,111	337	491
1983	7,882	4,989	626	1,302	389	576
1984	8,620	5,431	690	1,411	475	613
1985	9,687	6,064	752	1,617	560	694
1986	10,928	6,712	915	1,869	700	732
1987	12,153	7,343	1,023	2,168	790	828
1988	13,463	8,193	1,106	2,356	872	935
1989	14,979	8,993	1,224	2,698	994	1,071
1990	16,290	9,640	1,324	3,006	1,127	1,191
1991	17,589	10,238	1,474	3,367	1,204	1,307
1992	18,821	11,095	1,491	3,548	1,279	1,409
1993	19,954	11,960	1,559	3,589	1,360	1,486
1994	21,035	12,654	1,555	3,828	1,423	1,575
1995	22,179	13,337	1,690	4,048	1,489	1,614
1996	23,055	13,847	1,812	4,172	1,606	1,619
1997	24,380	14,321	1,910	4,699	1,737	1,712
1998	25,867	15,159	1,945	5,004	1,889	1,871
1999	27,544	16,112	2,022	5,382	2,033	1,995
2000	30,084	17,548	2,200	5,925	2,156	2,255
2001	32,801	19,227	2,320	6,614	2,218	2,422
2002	36,383	21,856	2,504	7,133	2,191	2,698

**Table 1. Higher education R&D expenditures, by source of funds: FYs 1953–2024**

(Dollars in millions)

Fiscal year	All R&D expenditures <sup>a</sup>	Source of funds				
		Federal government	State and local government	Institution funds	Business	All other sources <sup>b</sup>
2003 <sup>e</sup>	41,470	25,307	2,645	7,663	2,161	2,856
2004 <sup>e</sup>	44,839	28,304	2,879	7,752	2,129	2,851
2005 <sup>e</sup>	47,535	29,957	2,940	8,265	2,291	3,092
2006 <sup>e</sup>	49,645	30,909	2,966	9,062	2,401	3,198
2007 <sup>e</sup>	51,590	31,241	3,151	9,718	2,675	3,521
2008 <sup>e</sup>	54,114	32,101	3,438	10,378	2,869	3,916
2009 <sup>e</sup>	57,288	33,443	3,647	11,148	3,197	4,294
2010	61,287	37,478	3,887	11,943	3,202	4,777
2011	65,274	40,768	3,851	12,580	3,183	4,892
2012	65,874	40,216	3,744	13,627	3,279	5,008
2013	67,110	39,510	3,706	14,940	3,515	5,440
2014	67,315	38,031	3,916	15,745	3,734	5,889
2015	68,665	37,911	3,864	16,609	4,009	6,273
2016	71,881	38,856	4,053	17,912	4,220	6,839
2017	75,294	40,319	4,186	18,887	4,440	7,462
2018	79,177	41,934	4,326	20,222	4,726	7,970
2019	83,647	44,538	4,520	21,115	5,066	8,407
2020	86,448	46,184	4,603	22,024	5,189	8,446
2021	89,846	49,196	4,752	22,480	5,123	8,296
2022	97,844	54,056	4,918	24,539	5,706	8,625
2023	108,858	59,683	5,451	27,685	6,230	9,808
2024	117,719	64,718	6,084	30,202	6,361	10,354

S&amp;E = science and engineering.

<sup>a</sup> Totals for FYs 1953–2002 represent R&D expenditures in S&E fields only. From FY 2003 through FY 2009, some institution totals for all R&D expenditures may be lower-bound estimates because the National Center for Science and Engineering Statistics did not attempt to estimate for nonresponse on the non-S&E R&D expenditures item prior to FY 2010.

<sup>b</sup> Prior to FY 2010, R&D expenditures from nonprofit organizations were collected under all other sources. Beginning in FY 2010, these data were collected separately, and FY 2024 data included \$6,699 million in R&D expenditures from nonprofit sources.

<sup>c</sup> Data are estimated based on data collected in surrounding years. Between FY 1953 and FY 1971, surveys were conducted only in years FY 1954, FY 1958, FY 1964, FY 1966, FY 1968, and FY 1970.

<sup>d</sup> FY 1978 data are estimated based on data collected from doctorate-granting institutions only.

<sup>e</sup> Source of funds detail data do not sum to total for FYs 2003–09 because data by source were collected for S&E fields only. Total non-S&E expenditures were collected in a separate item.

**Note(s):**

Because of rounding, detail may not add to total.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

Table 2. Higher education R&D expenditures, by source of funds and survey population: FYs 2010–24

(Dollars in thousands)

Survey population and fiscal year	All R&D expenditures	Source of funds								
		Federal government	State and local government	Institution funds				Business	Nonprofit organizations	All other sources
				Total	Institutionally financed research	Cost sharing	Unrecovered indirect costs			
All institutions										
2010	61,286,610	37,477,582	3,887,106	11,942,532	6,198,189	1,083,275	4,661,068	3,201,904	3,729,655	1,047,831
2011	65,274,393	40,768,251	3,851,323	12,580,320	6,816,187	1,153,646	4,610,487	3,182,671	3,853,950	1,037,878
2012	65,873,562	40,216,315	3,743,794	13,626,643	7,725,342	1,289,002	4,612,299	3,279,183	4,036,962	970,665
2013	67,110,175	39,509,763	3,705,551	14,939,817	8,908,292	1,324,996	4,706,529	3,514,750	3,902,574	1,537,720
2014	67,314,545	38,031,364	3,915,558	15,744,856	9,638,156	1,342,759	4,763,941	3,733,685	3,977,674	1,911,408
2015	68,665,268	37,910,552	3,864,035	16,609,345	10,446,669	1,322,582	4,840,094	4,008,528	4,235,438	2,037,370
2016	71,881,043	38,856,498	4,053,258	17,912,276	11,447,898	1,426,984	5,037,394	4,220,135	4,634,578	2,204,298
2017	75,294,368	40,318,628	4,186,469	18,887,354	12,132,446	1,562,017	5,192,891	4,439,729	5,159,455	2,302,733
2018	79,177,412	41,933,513	4,326,273	20,221,522	13,196,969	1,519,596	5,504,957	4,726,444	5,458,650	2,511,010
2019	83,646,838	44,538,150	4,520,288	21,115,466	14,011,479	1,566,156	5,537,831	5,065,822	5,705,190	2,701,922
2020	86,447,512	46,183,876	4,603,434	22,024,380	14,646,488	1,635,810	5,742,082	5,189,485	5,758,044	2,688,293
2021	89,846,088	49,195,581	4,752,371	22,479,773	14,973,379	1,626,739	5,879,655	5,122,646	5,606,558	2,689,159
2022	97,843,969	54,055,759	4,917,684	24,539,257	16,657,255	1,708,586	6,173,416	5,706,479	5,978,496	2,646,294
2023	108,858,340	59,683,434	5,451,397	27,685,235	19,190,681	1,720,263	6,774,291	6,229,935	6,683,065	3,125,274
2024	117,718,608	64,717,632	6,084,021	30,201,638	21,284,510	1,850,119	7,067,009	6,361,466	6,699,279	3,654,572
Short form institutions <sup>a</sup>										
2012	143,498	74,639	10,263	37,778	32,515	2,474	2,789	5,207	14,611	1,000
2013	131,528	64,349	9,175	37,529	32,116	2,360	3,053	4,221	14,000	2,254
2014	153,117	70,246	12,535	47,142	42,032	1,707	3,403	5,849	13,747	3,598
2015	144,282	64,187	9,378	45,816	41,178	1,228	3,410	5,695	15,036	4,170
2016	143,849	68,516	9,842	41,427	35,888	2,169	3,370	5,693	14,016	4,355
2017	143,880	71,040	11,413	36,930	32,208	1,890	2,832	4,479	16,088	3,930
2018	150,382	73,579	13,486	41,807	36,360	2,356	3,091	5,235	13,013	3,262
2019	156,408	77,789	9,736	44,531	38,459	1,914	4,158	4,475	13,527	6,350
2020	138,975	75,104	8,784	34,120	28,435	2,243	3,442	4,245	13,160	3,562
2021	139,783	74,426	9,249	34,979	29,667	1,974	3,338	3,345	13,759	4,025
2022	166,529	80,778	10,745	45,339	38,210	2,581	4,548	8,090	16,356	5,221
2023	161,715	73,428	8,720	50,625	43,909	2,632	4,084	9,054	13,394	6,494
2024	164,463	77,691	7,893	50,997	46,239	1,825	2,933	5,940	13,553	8,389
Standard form institutions										
2010	61,286,610	37,477,582	3,887,106	11,942,532	6,198,189	1,083,275	4,661,068	3,201,904	3,729,655	1,047,831
2011	65,274,393	40,768,251	3,851,323	12,580,320	6,816,187	1,153,646	4,610,487	3,182,671	3,853,950	1,037,878
2012	65,730,064	40,141,676	3,733,531	13,588,865	7,692,827	1,286,528	4,609,510	3,273,976	4,022,351	969,665
2013	66,978,647	39,445,414	3,696,376	14,902,288	8,876,176	1,322,636	4,703,476	3,510,529	3,888,574	1,535,466
2014	67,161,428	37,961,118	3,903,023	15,697,714	9,596,124	1,341,052	4,760,538	3,727,836	3,963,927	1,907,810

Table 2. Higher education R&D expenditures, by source of funds and survey population: FYs 2010–24

(Dollars in thousands)

Survey population and fiscal year	All R&D expenditures	Source of funds								
		Federal government	State and local government	Institution funds				Business	Nonprofit organizations	All other sources
				Total	Institutionally financed research	Cost sharing	Unrecovered indirect costs			
2015	68,520,986	37,846,365	3,854,657	16,563,529	10,405,491	1,321,354	4,836,684	4,002,833	4,220,402	2,033,200
2016	71,737,194	38,787,982	4,043,416	17,870,849	11,412,010	1,424,815	5,034,024	4,214,442	4,620,562	2,199,943
2017	75,150,488	40,247,588	4,175,056	18,850,424	12,100,238	1,560,127	5,190,059	4,435,250	5,143,367	2,298,803
2018	79,027,030	41,859,934	4,312,787	20,179,715	13,160,609	1,517,240	5,501,866	4,721,209	5,445,637	2,507,748
2019	83,490,430	44,460,361	4,510,552	21,070,935	13,973,020	1,564,242	5,533,673	5,061,347	5,691,663	2,695,572
2020	86,308,537	46,108,772	4,594,650	21,990,260	14,618,053	1,633,567	5,738,640	5,185,240	5,744,884	2,684,731
2021	89,706,305	49,121,155	4,743,122	22,444,794	14,943,712	1,624,765	5,876,317	5,119,301	5,592,799	2,685,134
2022	97,677,440	53,974,981	4,906,939	24,493,918	16,619,045	1,706,005	6,168,868	5,698,389	5,962,140	2,641,073
2023	108,696,625	59,610,006	5,442,677	27,634,610	19,146,772	1,717,631	6,770,207	6,220,881	6,669,671	3,118,780
2024	117,554,145	64,639,941	6,076,128	30,150,641	21,238,271	1,848,294	7,064,076	6,355,526	6,685,726	3,646,183

<sup>a</sup> Beginning with FY 2012, institutions reporting less than \$1 million in total R&D expenditures completed a shorter version of the survey questionnaire. Prior to FY 2012, all institutions completed the standard form survey questionnaire.

**Source(s):**  
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

**Table 3. Higher education R&D expenditures, by source of funds, R&D field, and survey population: FY 2024**

(Dollars in thousands)

Source of funds and R&D field	All institutions	Survey population	
		Short form	Standard form
All R&D expenditures	117,718,608	164,463	117,554,145
Federal government	64,717,632	77,691	64,639,941
State and local government	6,084,021	7,893	6,076,128
Institution funds	30,201,638	50,997	30,150,641
Institutionally financed research	21,284,510	46,239	21,238,271
Cost sharing	1,850,119	1,825	1,848,294
Unrecovered indirect costs	7,067,009	2,933	7,064,076
Business	6,361,466	5,940	6,355,526
Nonprofit organizations	6,699,279	13,553	6,685,726
All other sources	3,654,572	8,389	3,646,183
Science	90,837,820	124,317	90,713,503
Computer and information sciences	3,963,791	8,262	3,955,529
Geosciences, atmospheric sciences, and ocean sciences	4,413,990	6,541	4,407,449
Life sciences	66,878,832	57,779	66,821,053
Mathematics and statistics	1,169,088	4,581	1,164,507
Physical sciences	7,478,699	22,675	7,456,024
Psychology	1,737,302	6,358	1,730,944
Social sciences	3,922,935	12,982	3,909,953
Sciences nec	1,273,183	5,139	1,268,044
Engineering	19,279,953	8,547	19,271,406
Non-S&E	7,600,835	31,599	7,569,236

nec = not elsewhere classified; S&amp;E = science and engineering.

**Note(s):**

Institutions are included in the short form population if they reported less than \$1 million in total R&amp;D expenditures during the previous fiscal year.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2024.

Table 4. Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds									
			Federal government		State and local government		Institution funds		Business	Nonprofit organizations		All other sources
All institutions	-	117,718,608	64,717,632		6,084,021		30,201,638		6,361,466	6,699,279		3,654,572
Johns Hopkins U. <sup>a</sup>	1	4,129,264	3,618,064		10,896		185,200		133,402	177,078		4,624
U. Pennsylvania	2	2,167,504	1,018,602		29,860		782,301		172,616	152,751		11,374
U. California, San Francisco	3	2,127,637	1,036,633		46,546		473,695		132,890	165,964		271,909
U. Michigan, Ann Arbor	4	2,110,961	1,165,494		3,715		740,911		104,709	88,134		7,998
U. Wisconsin-Madison	5	1,933,229	930,647		148,556		598,710		46,036	158,015		51,265
U. California, Los Angeles	6	1,896,227	980,183		168,042		368,710		89,042	131,834		158,416
U. California, San Diego	7	1,881,289	1,151,518		76,337		317,049		100,768	110,616		125,001
U. Washington, Seattle	8	1,691,302	1,135,734		49,220		122,931		77,432	228,765		77,220
Stanford U.	9	1,641,961	1,012,767		39,564		207,741		152,221	218,804		10,864
Cornell U.	10	1,613,631	792,078		109,347		315,721		68,312	140,435		187,738
U. North Carolina, Chapel Hill	11	1,598,751	949,913		53,113		419,777		55,872	96,865		23,211
Ohio State U.	12	1,581,570	774,210		69,898		461,917		159,497	67,141		48,907
Duke U.	13	1,580,756	1,039,631		340		197,547		222,655	97,651		22,932
U. Maryland <sup>b</sup>	14	1,539,520	922,237		87,160		434,436		37,805	53,551		4,331
Georgia Institute of Technology	15	1,528,637	1,213,430		138,147		75,634		63,454	28,527		9,445
Yale U.	16	1,519,694	845,058		2,842		432,654		102,886	129,902		6,352
U. Pittsburgh, Pittsburgh	17	1,504,665	967,978		9,876		356,043		39,636	76,290		54,842
New York U.	18	1,500,732	805,148		9,365		346,001		74,378	109,283		156,557
Harvard U.	19	1,494,527	672,947		5,819		525,882		63,568	193,779		32,532
Columbia U. in the City of New York	20	1,449,535	1,076,805		8,607		136,012		92,384	132,354		3,373
U. Minnesota, Twin Cities	21	1,409,710	748,229		89,087		412,003		50,458	38,966		70,967
Texas A&M U., College Station and Health Science Center	22	1,393,825	582,674		285,545		394,343		36,960	54,695		39,608
U. Texas M. D. Anderson Cancer Center	23	1,363,321	282,431		325,677		297,453		262,997	44,980		149,783
Vanderbilt U. and Vanderbilt U. Medical Center	24	1,327,870	809,693		4,834		365,662		86,141	48,347		13,193
Pennsylvania State U., University Park and Hershey Medical Center	25	1,302,971	858,666		55,826		294,157		37,874	31,390		25,058
U. Florida	26	1,272,493	581,252		202,443		358,541		37,093	54,794		38,370
U. Southern California	27	1,264,197	739,426		17,038		260,889		122,970	70,079		53,795
Northwestern U.	28	1,257,859	735,735		5,838		361,296		70,595	68,565		15,830
Emory U.	29	1,246,507	744,597		296		324,469		77,501	96,352		3,292
Washington U., Saint Louis	30	1,243,115	821,852		401		199,087		121,727	98,504		1,544
U. Texas, Austin	31	1,143,917	690,835		36,746		252,904		94,028	59,786		9,618
U. California, Berkeley	32	1,126,782	518,011		56,947		259,116		46,138	113,409		133,161
Massachusetts Institute of Technology	33	1,065,554	595,053		2,631		90,091		181,626	127,564		68,589
Icahn School of Medicine at Mount Sinai	34	1,015,600	693,444		10,618		134,771		83,348	75,892		17,527
U. Arizona	35	1,012,404	471,394		48,878		301,676		25,270	30,945		134,241
U. California, Davis	36	1,005,757	505,442		81,315		282,121		35,486	51,037		50,356

Table 4. Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds									
				Federal government		State and local government		Institution funds		Business	Nonprofit organizations		All other sources
Arizona State U.	37	1,003,271		396,431		108,290		337,060		22,795	112,839		25,856
Michigan State U.	38	931,848		474,762		47,478		338,809		26,590	21,677		22,532
Purdue U., West Lafayette	39	931,513		451,802		43,893		280,219		72,672	31,385		51,542
U. Illinois, Urbana-Champaign	40	906,751		511,574		29,114		258,312		45,694	36,634		25,423
Indiana U., Bloomington	41	896,983		456,845		9,409		323,571		35,596	70,012		1,550
Baylor C. of Medicine	42	881,226		453,738		34,007		294,321		42,918	43,311		12,931
U. Texas Southwestern Medical Center	43	869,297		359,693		103,480		206,864		52,541	65,336		81,383
U. Alabama, Birmingham	44	865,868		498,148		18,482		232,305		71,057	41,550		4,326
Rutgers, State U. New Jersey, New Brunswick	45	836,800		408,320		121,387		174,001		88,835	40,690		3,567
U. Virginia, Charlottesville	46	813,772		394,731		24,266		258,706		34,227	33,507		68,335
U. Utah	47	789,271		453,025		4,358		236,568		57,158	33,428		4,734
Boston U.	48	784,355		421,753		765		242,148		21,131	74,197		24,361
U. Colorado Anschutz Medical Campus	49	741,643		498,397		33,329		69,814		61,906	60,039		18,158
U. Cincinnati	50	739,878		411,205		8,611		200,709		53,909	46,333		19,111
U. Colorado Boulder	51	717,920		567,693		6,972		47,178		15,686	19,363		61,028
North Carolina State U.	52	717,004		316,076		150,086		182,150		62,040	5,622		1,030
U. Iowa	53	703,326		338,639		5,280		251,469		39,196	28,018		40,724
U. Chicago	54	680,753		504,337		1,710		60,415		45,150	66,636		2,505
U. Nebraska, Lincoln and Medical Center	55	657,468		301,070		72,315		194,687		32,109	28,830		28,457
Virginia Polytechnic Institute and State U.	56	656,916		308,282		80,644		203,511		34,282	20,079		10,118
U. California, Irvine	57	644,948		384,504		29,998		125,145		32,229	36,440		36,632
Case Western Reserve U.	58	642,546		466,362		8,467		119,055		6,092	36,892		5,678
U. Georgia	59	628,117		255,117		62,113		273,844		11,536	15,339		10,168
Uniformed Services U. of the Health Sciences	60	569,050		482,223		0		82,302		0	4,525		0
U. Miami	61	559,013		322,331		15,717		154,377		40,602	25,759		227
Princeton U.	62	558,624		250,294		1,923		160,754		18,666	83,114		43,873
U. Kansas	63	546,110		245,710		45,633		180,481		43,745	15,663		14,878
Oregon Health and Science U.	64	545,214		389,585		1,484		56,618		54,397	42,968		162
SUNY, U. Buffalo	65	541,880		284,562		41,118		149,921		27,287	30,731		8,261
U. Illinois, Chicago	66	532,181		299,986		11,638		170,549		10,246	31,787		7,975
U. Kentucky	67	527,658		273,724		31,173		172,167		11,497	12,298		26,799
Virginia Commonwealth U.	68	524,295		208,743		47,241		192,462		22,757	21,202		31,890
U. South Florida	69	521,892		272,483		34,971		175,897		14,416	21,384		2,741
U. Missouri, Columbia	70	508,580		241,938		66,965		155,500		25,527	12,426		6,224
Carnegie Mellon U.	71	505,262		280,169		3,293		125,357		58,720	21,694		16,029
Scripps Research Institute	72	501,468		272,039		2,718		137,186		44,732	44,793		0
U. Rochester	73	492,372		376,088		1,462		57,986		31,672	17,003		8,161



Table 4. Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds									
				Federal government		State and local government		Institution funds		Business	Nonprofit organizations		All other sources
U. Oklahoma <sup>c</sup>	74	474,043		225,360		25,541		190,971		19,086	11,645		1,440
SUNY, U. Albany	75	471,605		104,769		24,055		133,688		199,914	2,776		6,403
Colorado State U., Fort Collins	76	466,386		300,857		25,088		82,212		14,380	25,139		18,710
U. Delaware	77	465,780		229,392		12,408		196,593		4,611	8,527		14,249
Iowa State U.	78	462,347		216,003		37,520		168,223		25,087	14,900		614
Florida State U.	79	460,733		204,544		53,897		185,427		3,611	7,364		5,890
Utah State U.	80	451,379		364,880		30,532		30,056		5,821	1,017		19,073
California Institute of Technology	81	445,173		298,754		3,874		60,852		45,352	27,487		8,854
U. Connecticut	82	433,545		253,110		8,235		143,866		11,132	12,032		5,170
Louisiana State U., Baton Rouge	83	431,439		142,226		78,318		181,877		15,478	8,008		5,532
U. Texas Health Science Center, Houston	84	419,123		227,118		54,172		71,928		16,717	39,606		9,582
Dartmouth C. and Dartmouth Hitchcock Medical Center	85	418,429		185,769		706		190,993		8,946	22,422		9,593
Washington State U.	86	403,369		221,721		62,652		89,196		13,656	13,948		2,196
Auburn U., Auburn	87	393,557		157,999		35,124		177,767		10,785	2,223		9,659
Wichita State U.	88	392,333		182,881		18,197		40,527		150,338	284		106
U. Tennessee, Knoxville	89	386,949		180,010		12,857		171,819		8,618	8,377		5,268
George Washington U.	90	381,582		179,220		1,752		144,862		6,780	30,612		18,356
Georgetown U.	91	376,600		145,787		1,055		97,480		19,902	77,634		34,742
U. Hawaii, Manoa	92	375,631		237,482		19,135		94,425		2,404	20,226		1,959
Brown U.	93	374,504		253,661		419		69,791		5,661	32,041		12,931
Oregon State U.	94	371,904		244,264		65,289		34,259		8,736	3,962		15,394
Albert Einstein C. of Medicine	95	360,789		242,594		1,250		90,902		5,426	20,617		0
Medical C. Wisconsin	96	360,309		150,035		125		120,110		46,089	38,386		5,564
U. New Mexico	97	354,874		221,867		16,205		90,275		6,913	17,064		2,550
U. Massachusetts, Medical School	98	349,616		231,375		965		58,157		23,235	28,622		7,262
Northeastern U.	99	346,900		218,650		2,315		86,671		16,584	21,718		962
U. Notre Dame	100	345,791		144,327		509		128,586		15,060	27,031		30,278
Wake Forest U.	101	344,517		224,282		10,477		26,202		37,378	33,160		13,018
Mississippi State U.	102	342,132		161,636		94,335		73,319		2,363	7,593		2,886
Clemson U.	103	338,533		161,658		33,501		115,530		21,905	5,658		281
Florida International U.	104	325,785		165,202		17,608		125,955		3,400	10,603		3,017
Medical U. South Carolina	105	320,990		173,379		6,517		92,990		37,783	10,019		302
SUNY, Stony Brook U.	106	319,258		186,497		18,940		91,073		9,016	10,593		3,139
Temple U.	107	314,999		159,138		7,534		97,116		25,560	17,948		7,703
U. Texas Health Science Center, San Antonio	108	312,791		165,935		34,401		76,536		9,666	26,149		104
Woods Hole Oceanographic Institution	109	308,240		250,140		1,360		15,433		7,070	12,249		21,988
Rockefeller U.	110	305,300		110,292		76		147,255		4,473	41,426		1,778

Table 4. Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	Source of funds													
		All R&D expenditures	Federal government		State and local government		Institution funds		Business	Nonprofit organizations		All other sources			
U. California, Santa Barbara	111	303,446		171,188		8,851		68,925		8,616		26,042		19,824	
Wayne State U.	112	291,689		151,878		13,415		92,709		5,468		23,022		5,197	
U. Central Florida	113	284,943		135,779		7,173		124,075		9,751		3,765		4,400	
U. Massachusetts, Amherst	114	281,730		146,876		14,334		95,753		9,135		10,249		5,383	
George Mason U.	115	281,697		147,327		3,573		77,715		6,440		42,333		4,309	
Tufts U.	116	278,304		169,588		4,484		42,242		15,183		34,552		12,255	
Rice U.	117	277,683		127,615		7,155		91,084		8,707		37,195		5,927	
U. South Carolina, Columbia	118	277,329		144,878		13,366		100,137		4,268		10,409		4,271	
Tulane U.	119	275,885		159,185		6,179		72,490		6,395		13,939		17,697	
Thomas Jefferson U.	120	271,198		113,022		11,923		78,178		26,707		12,882		28,486	
Kansas State U.	121	264,961		83,225		64,727		97,529		7,460		10,689		1,331	
West Virginia U.	122	259,072		129,896		10,318		82,900		5,993		3,621		26,344	
Montana State U., Bozeman	123	257,927		158,999		21,347		67,761		962		5,029		3,829	
Texas Tech U.	124	256,919		62,892		32,349		133,084		14,831		13,669		94	
U. Louisiana, Lafayette	125	254,883		94,237		13,114		53,475		93,705		352		0	
Oklahoma State U., Stillwater	126	253,770		76,701		24,828		137,040		11,792		2,780		629	
U. Dayton	127	252,537		241,753		1,295		1,122		7,721		384		262	
U. Alaska, Fairbanks	128	246,295		168,918		16,342		48,136		7,430		3,582		1,887	
U. Vermont	129	246,240		138,601		566		86,795		4,475		7,620		8,183	
Georgia State U.	130	241,115		96,654		4,720		122,041		3,000		13,367		1,333	
U. Texas Medical Branch	131	241,072		161,678		8,912		54,442		5,384		10,656		0	
U. Houston	132	238,996		103,963		26,168		86,413		10,060		7,401		4,991	
U. California, Riverside	133	231,596		126,339		13,887		66,571		3,271		11,713		9,815	
U. Arkansas, Fayetteville	134	230,626		95,784		41,571		67,679		7,050		5,560		12,982	
U. New Hampshire	135	230,224		151,886		1,270		55,530		10,012		10,581		945	
U. Arkansas for Medical Sciences	136	226,842	i	102,854	i	14,946	i	91,231	i	5,690	i	6,583	i	5,538	i
U. Louisville	137	224,969		89,978		13,416		77,479		9,906		8,708		25,482	
U. Alabama, Tuscaloosa	138	221,235		112,199		17,606		85,564		1,830		3,077		959	
U. California, Santa Cruz	139	218,426		117,064		6,610		65,182		2,629		19,623		7,318	
North Dakota State U.	140	199,885		57,705		55,061		76,985		1,626		1,105		7,403	
U. Maine	141	198,870		101,733		19,313		67,471		4,987		3,660		1,706	
Syracuse U.	142	198,750		55,174		10,743		114,226		9,272		8,748		587	
U. North Dakota	143	197,428		83,377		37,661		58,808		15,950		558		1,074	
U. Nevada, Reno	144	194,131		89,152		8,576		81,898		3,097		2,485		8,923	
U. Mississippi	145	189,910		102,574		9,911		68,678		2,501		5,634		612	
U. Texas, Dallas	146	181,795		82,438		29,300		39,786		13,742		16,255		274	
San Diego State U.	147	181,600		74,414		11,379		87,259		903		4,014		3,631	

Table 4. Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds											
				Federal government		State and local government		Institution funds		Business	Nonprofit organizations		All other sources		
U. Oregon	148	174,785		105,290		2,327		23,681		663	7,619		35,205		
New Jersey Institute of Technology	149	171,741		90,947		8,025		64,784		906	1,341		5,738		
U. Texas, San Antonio	150	171,528		60,101		25,628		72,157		8,580	1,821		3,241		
Drexel U.	151	170,205		109,643		3,139		41,993		1,792	10,626		3,012		
U. Wyoming	152	167,306		73,731		8,089		79,100		3,713	1,693		980		
Augusta U.	153	166,219		73,564		310		78,326		5,432	7,897		690		
Texas State U.	154	165,047		48,686		25,547		83,632		1,492	5,521		169		
SUNY, Binghamton U.	155	160,644		31,348		5,623		115,176		4,308	2,069		2,120		
Brigham Young U., Provo	156	158,319		31,324		1,355		118,332		3,593	3,424		291		
U. Texas, El Paso	157	157,574		74,836		18,373		49,884		1,100	2,321		11,060		
U. Alabama, Huntsville	158	154,494		115,434		5,254		31,704		941	499		662		
U. Texas, Arlington	159	153,780		62,500		31,989		46,231		5,058	5,866		2,136		
U. Maryland, Baltimore County	160	150,908		91,886		8,440		43,363		3,080	3,179		960		
U. Montana, Missoula	161	143,810		88,952		1,267		49,820		1,018	2,253		500		
New Mexico State U.	162	142,872		84,715		27,644		18,535		1,973	3,694		6,311		
U. Idaho	163	140,413		61,960		49,917		21,808		1,666	1,179		3,883		
Rensselaer Polytechnic Institute	164	140,247		61,359		4,011		47,399		9,391	1,554		16,533		
Rush U.	165	139,295		102,320		4,165		10,616		16,185	6,009		0		
U. Rhode Island	166	137,462		111,503		3,309		16,517		1,530	3,867		736		
Baylor U.	167	134,876		22,685		4,291		88,930		1,298	16,726		946		
Cold Spring Harbor Laboratory	168	126,502	i	58,273	i	225	i	41,315	i	4,215	i	22,474	i	0	i
U. Tennessee, Health Science Center	169	124,771		64,800		7,820		34,014		4,588	5,624		7,925		
U. North Texas, Denton	170	124,219		43,136		5,131		68,263		2,010	5,302		377		
U. Massachusetts, Lowell	171	120,672		59,711		3,043		47,037		5,732	3,971		1,178		
U. Nevada, Las Vegas	172	118,049		46,258		2,904		62,549		1,087	1,268		3,983		
U. North Texas, Health Science Center	173	110,499		90,722		3,351		14,780		830	803		13		
Colorado School of Mines	174	109,905		71,415		2,655		14,794		12,464	3,070		5,507		
U. Memphis	175	108,862		34,728		10,883		59,120		960	3,081		90		
Brandeis U.	176	107,059		48,548		322		41,637		261	13,052		3,239		
Michigan Technological U.	177	106,919		55,980		1,667		40,642		5,791	888		1,951		
Howard U.	178	101,815		55,361		5,844		23,909		6,449	9,347		905		
Boston C.	179	96,310		47,731		2,309		21,690		867	22,054		1,659		
Saint Louis U.	180	95,832		43,867		1,415		29,826		6,245	13,996		483		
U. North Carolina, Charlotte	181	94,895		36,444		608		54,032		3,106	656		49		
William & Mary	182	94,609		41,488		3,683		36,864		2,097	6,884		3,593		
Northern Arizona U.	183	93,749		62,399		11,280		16,520		1,120	2,301		129		
U. Southern Mississippi	184	93,692		53,044		12,958		26,151		543	996		0		

Table 4. Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds									
				Federal government		State and local government		Institution funds		Business	Nonprofit organizations		All other sources
U. Texas Rio Grande Valley	185	90,610		35,014		8,901		41,911		918	3,753		113
Indiana U.-Purdue U., Indianapolis	186	88,989		41,004		3,168		34,877		3,597	6,186		157
San Jose State U.	187	88,125		37,503		8,015		36,595		1,480	3,206		1,326
Florida Atlantic U.	188	87,906		35,414		8,801		32,146		2,529	7,427		1,589
Cleveland State U.	189	85,839		53,415		2,545		19,747		2,743	7,245		144
Van Andel Research Institute	190	83,309		31,791		930		40,232		270	3,097		6,989
South Dakota State U.	191	82,246		36,703		18,526		7,060		1,976	4,008		13,973
North Carolina A&T State U.	192	81,845		44,751		5,699		30,653		250	399		93
CUNY, Graduate Center	193	80,831		3,157		222		73,562		171	2,993		726
New Mexico Institute of Mining and Technology	194	79,857		57,649		14,281		4,623		2,483	188		633
Louisiana State U., Health Sciences Center, New Orleans	195	79,680		35,394		518		35,179		4,153	4,228		208
U. California, Office of the President	196	79,293		0		38,249		40,597		0	159		288
Rochester Institute of Technology	197	78,488		44,203		10,391		19,292		1,958	1,836		808
American U.	198	78,356		21,538		1,850		41,312		1,020	10,590		2,046
U. North Carolina, Greensboro	199	77,370		44,726		6,523		23,315		606	1,894		306
U. California, Merced	200	77,233		39,951		10,740		20,759		1,523	2,836		1,424
Touro U., New York	201	76,867		35,150		0		2,427		39,282	8		0
Old Dominion U.	202	76,202		32,045		13,307		26,196		785	2,260		1,609
U. Massachusetts, Boston	203	74,625		28,676		9,415		26,216		2,146	7,721		451
Naval Postgraduate School	204	73,230		62,115		0		9,811		794	141		369
U. Toledo	205	73,200		41,525		1,750		22,812		1,429	5,650		34
East Carolina U.	206	72,539		30,338		4,697		29,538		4,424	3,033		509
CUNY, City C.	207	71,684		38,727		15,407		14,805		517	1,561		667
Worcester Polytechnic Institute	208	71,552		40,768		916		23,036		3,671	2,040		1,121
Stevens Institute of Technology	209	70,736		59,605		2,160		7,241		774	376		580
U. South Alabama	210	70,084		32,361		75		32,984		719	3,775		170
Missouri U. of Science and Technology	211	69,534		38,058		2,857		19,176		4,192	767		4,484
Morehouse School of Medicine	212	68,746		42,379		2,211		15,998		0	8,158		0
Florida A&M U.	213	68,674		57,545		1,699		7,276		830	1,324		0
Ohio U.	214	67,430		25,975		1,207		34,587		3,697	896		1,068
U. Wisconsin-Milwaukee	215	66,270		27,698		19,398		15,026		1,487	1,290		1,371
Rowan U.	216	63,984		21,291		12,264		25,866		2,968	1,595		0
Southern Methodist U.	217	62,553		22,054		1,027		33,596		2,250	3,555		71
Lehigh U.	218	62,406		44,797		3,076		12,529		851	994		159
Western Michigan U. and Homer Stryker M.D. School of Medicine	219	62,063		11,928		3,043		40,757		3,829	763		1,743
Southern Illinois U., Carbondale	220	61,460		18,282		2,941		32,164		7,544	529		0
Loyola U., Chicago	221	61,454		36,481		512		13,298		4,535	5,556		1,072

Table 4. Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds									
			Federal government		State and local government		Institution funds		Business	Nonprofit organizations		All other sources
U. Puerto Rico, Medical Sciences Campus	222	61,453	47,952		618		10,708		2,175	0		0
Kent State U.	223	61,437	18,251		1,317		38,653		953	2,150		113
Nova Southeastern U.	224	60,629	14,369		4,188		37,661		1,344	2,310		757
SUNY, Upstate Medical U.	225	59,482	38,105		2,075		8,950		5,804	2,858		1,690
Boise State U.	226	57,749	38,325		3,116		14,043		344	1,292		629
Catholic U. of America	227	57,705	40,655		728		13,696		368	1,976		282
U. Missouri, Kansas City	228	57,030	27,638		2,522		20,433		473	2,125		3,839
U. Denver	229	55,630	39,622		1,301		6,339		1,543	5,367		1,458
Morgan State U.	230	55,506	37,110		9,258		7,850		511	557		220
Air Force Institute of Technology	231	54,204	44,128		0		10,011		65	0		0
U. Maryland Center for Environmental Science	232	54,036	16,689		26,498		7,471		210	3,168		0
U.S. Air Force Academy	233	53,158	51,933		0		0		707	0		518
Texas Tech U., Health Sciences Center	234	52,986	16,721		19,412		10,074		1,110	3,367		2,302
Texas A&M U.-Corpus Christi	235	52,175	20,750		11,854		8,224		642	4,408		6,297
Portland State U.	236	51,677	35,955		5,048		8,085		246	1,960		383
Kennesaw State U.	237	51,575	7,668		522		41,194		184	2,007		0
Marquette U.	238	49,099	23,110		194		17,011		357	1,826		6,601
Chapman U.	239	48,308	11,392		483		31,243		331	4,453		406
Mercer U.	240	46,504	28,732		417		10,669		2,640	406		3,640
Georgia Southern U.	241	46,093	4,075		508		35,873		5,449	180		8
CUNY, Hunter C.	242	45,223	22,412		3,109		17,263		751	1,223		465
Montclair State U.	243	43,798	7,489		682		34,306		1	1,320		0
Delaware State U.	244	43,724	28,488		5,383		7,969		242	1,632		10
U. West Florida	245	43,503	17,226		1,737		23,807		256	477		0
East Tennessee State U.	246	42,526	11,338		2,191		25,260		138	3,554		45
U. Massachusetts, Dartmouth	247	42,352	14,803		1,969		22,063		2,193	1,159		165
San Francisco State U.	248	42,000	16,033		2,908		15,979		11	7,069		0
Marshall U.	249	39,178	21,348		1,143		13,803		535	2,349		0
SUNY, C. of Environmental Science and Forestry	250	38,661	8,133		19,729		6,831		505	1,481		1,982
Oakland U.	251	38,508	13,684		2,814		12,950		4,086	3,102		1,872
California Polytechnic State U., San Luis Obispo	252	38,133	14,234		6,320		14,662		777	2,077		63
Illinois Institute of Technology	253	37,990	31,996		185		2,895		1,482	973		459
SUNY, Downstate Health Sciences U.	254	37,322	28,276		147		5,699		333	2,223		644
Tennessee Technological U.	255	36,399	14,602		6,800		14,473		109	167		248
U. Nebraska, Omaha	256	35,134	25,294		3,486		4,858		79	1,342		75
Tennessee State U.	257	35,017	20,520		1,098		12,964		297	96		42
Embry-Riddle Aeronautical U.	258	35,014	28,014		4,514		935		1,163	212		176

Table 4. Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds									
				Federal government		State and local government		Institution funds		Business	Nonprofit organizations		All other sources
Northern Illinois U.	259	34,467		14,151		2,228		16,852		721	282		233
Illinois State U.	260	34,238		13,132		3,074		16,619		474	924		15
Teachers C., Columbia U.	261	34,096		13,361		1,845		NA		597	15,778		2,515
California State U., Sacramento	262	33,952		10,567		15,258		6,443		45	1,070		569
California State U., Long Beach	263	33,897		24,285		2,637		4,541		452	1,602		380
California State U., Fullerton	264	33,709		5,372		680		27,012		86	559		0
U. Puerto Rico, Rio Piedras	265	33,659		19,254		113		13,532		117	579		64
Villanova U.	266	33,090		9,754		1,482		19,118		762	1,720		254
U. Tulsa	267	32,802		10,777		393		11,603		6,517	3,032		480
Desert Research Institute	268	32,250		25,072		1,490		3,785		673	460		770
Louisiana State U., Health Sciences Center, Shreveport	269	31,887		18,040		182		7,064		2,052	4,549		0
CUNY, Queens C.	270	31,845		19,019		6,805		5,641		9	287		84
Texas A&M U.-Kingsville	271	31,751		14,728		6,729		3,793		917	5,544		40
Prairie View A&M U.	272	31,632		18,433		9,262		2,156		1,052	729		0
Louisiana Tech U.	273	31,247		10,178		1,404		16,539		656	0		2,470
U. Minnesota, Duluth	274	29,901		8,999		7,237		13,383		174	36		72
Tuskegee U.	275	29,720		19,906		4,876		3,605		0	0		1,333
Creighton U.	276	29,334		12,815		3,931		10,047		999	472		1,070
CUNY, Graduate School of Public Health and Health Policy	277	28,637		16,788		1,873		4,034		4,236	1,578		128
Miami U.	278	28,566		11,085		1,481		12,474		1,284	1,135		1,107
Fordham U.	279	28,249		6,944		0		18,342		216	1,436		1,311
U. South Dakota	280	27,908		13,807		419		12,794		89	355		444
Eastern Virginia Medical School	281	27,891		21,658		676		2,650		2,250	646		11
Texas Christian U.	282	27,659		8,818		364		14,252		3,299	821		105
Central Michigan U.	283	27,429		11,541		46		12,951		666	1,312		913
California State U., Northridge	284	27,009		16,778		1,546		7,057		281	1,347		0
California State Polytechnic U., Humboldt	285	26,607		5,257		5,318		7,454		1,048	4,417		3,113
U. Puerto Rico, Mayaguez	286	26,455		17,027		1,010		6,321		644	843		610
U. Texas Health Science Center, Tyler	287	26,240		8,444		11,247		2,550		433	3,566		0
Rutgers, State U. New Jersey, Newark	288	26,222		17,099		525		5,416		216	2,745		221
Clarkson U.	289	26,150		13,293		5,750		4,419		1,557	501		630
U. Guam	290	25,306		20,986		2,366		1,777		10	167		0
Tarleton State U.	291	24,875		4,718		5,041		14,183		244	689		0
Jackson State U.	292	24,744		20,528		333		2,253		0	1,293		337
U. Alaska, Anchorage	293	24,649		14,204		1,964		6,554		378	741		808
U. Akron	294	24,568		12,910		368		8,480		1,900	788		122
U. Colorado Denver	295	24,313		18,293		3,006		851		396	1,356		411



Table 4. Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	Source of funds													
		All R&D expenditures		Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources	
South Dakota School of Mines and Technology	296	23,941		18,006		2,329		2,587		358		17		644	
New School	297	23,902		1,052		1,308		4,297		152		16,762		331	
Loma Linda U.	298	23,898		13,846		1,119		5,097		1,601		2,116		119	
Florida Gulf Coast U.	299	23,841		11,117		4,771		3,819		120		3,994		20	
Meharry Medical C.	300	23,691	i	19,809	i	0	i	650	i	69	i	3,163	i	0	i
Charles R. Drew U. of Medicine and Science	301	23,664		15,475		1,159		4,951		0		2,079		0	
Western Washington U.	302	23,275		8,949		1,285		11,431		355		917		338	
Albany Medical C.	303	23,054		12,760		369		2,352		3,270		2,051		2,252	
U. North Carolina, Wilmington	304	22,672		9,547		6,832		3,901		1,602		565		225	
Wright State U.	305	22,647		15,597		1,385		4,730		638		178		119	
Montana Technological U.	306	22,588		13,993		6,159		2,174		262		0		0	
CUNY, Advanced Science Research Center	307	22,464		15,129		1,084		4,384		132		1,418		317	
U.S. Military Academy	308	22,292		20,577		0		191		190		1,259		75	
New York Medical C.	309	21,852		11,490		1,210		1,030		4,154		2,316		1,652	
James Madison U.	310	21,394		3,482		1,814		15,118		0		968		12	
CUNY, John Jay C. of Criminal Justice	311	21,156		7,340		7,513		3,430		190		2,296		387	
Bowling Green State U.	312	19,615		8,204		2,191		8,507		59		654		0	
U. North Florida	313	19,318		5,667		2,216		10,222		881		317		15	
U. New Orleans	314	19,311		5,950		1,209		9,878		416		1,016		842	
Towson U.	315	19,215		5,432		304		13,077		179		176		47	
Texas Southern U.	316	19,045		12,131		2,002		4,797		0		115		0	
Long Island U.	317	18,759		2,879		2,086		13,275		126		312		81	
Duquesne U.	318	18,348		8,989		965		4,894		204		3,296		0	
Florida Institute of Technology	319	17,842		10,759		1,333		4,745		575		430		0	
Southern Illinois U., Edwardsville	320	17,673		4,012		273		12,278		911		197		2	
Idaho State U.	321	17,494		8,964		2,448		5,121		431		207		323	
Sam Houston State U.	322	16,716		6,089		303		9,851		20		453		0	
Alabama A&M U.	323	16,248		12,701		105		3,046		396		0		0	
North Carolina Central U.	324	16,212		12,241		1,954		NA		597		208		1,212	
Missouri State U.	325	16,103		13,473		532		1,135		690		255		18	
Oklahoma State U., Center for Health Sciences	326	16,054		6,186		1,642		8,032		76		118		0	
Xavier U. Louisiana	327	15,955		12,892		782		951		0		1,330		0	
Texas Tech U., Health Sciences Center, El Paso	328	15,603		3,701		3,288		7,646		271		697		0	
Loyola Marymount U.	329	15,570		3,958		1,347		7,698		9		2,558		0	
CUNY, Brooklyn C.	330	15,244		5,714		2,011		6,910		183		408		18	
Alcorn State U.	331	14,844		10,148		4,366		281		31		18		0	
U. of the Virgin Islands	332	14,762		13,422		1,000		340		0		0		0	

Table 4. Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds									
			Federal government		State and local government		Institution funds		Business	Nonprofit organizations		All other sources
U. Missouri, Saint Louis	333	14,698	5,273		33		6,434		265	2,011		682
U. Hawaii, system office	334	14,542	14,534		0		8		0	0		0
Salisbury U.	335	14,422	5,292		5,198		3,827		5	100		0
California State U., Fresno	336	14,410	6,203		1,934		4,157		448	1,583		85
California State U., East Bay	337	14,307	9,172		263		4,317		31	275		249
California State Polytechnic U., Pomona	338	13,685	10,621		1,246		1,173		100	238		307
Midwestern U.	339	13,632	3,227		78		10,030		58	239		0
Kentucky State U.	340	13,534	7,244		4,792		1,385		0	113		0
Clark Atlanta U.	341	13,424	10,028		0		3,242		33	121		0
U. Maryland, Eastern Shore	342	13,422	11,752		567		1,061		0	42		0
Langston U.	343	13,340	7,583		0		5,661		96	0		0
Virginia State U.	344	13,271	6,684		4,144		2,175		0	208		60
Ball State U.	345	13,095	6,935		463		4,780		532	368		17
Northeast Ohio Medical U.	346	13,049	9,018		68		3,242		0	721		0
California State U., San Marcos	347	12,788	10,758		1,268		430		0	332		0
Clark U.	348	12,707	3,231		209		6,079		199	1,362		1,627
Winston-Salem State U.	349	12,650	11,818		574		0		0	258		0
U. San Diego	350	12,649	4,220		845		6,627		85	578		294
South Carolina State U.	351	12,496	8,936		2,518		692		350	0		0
U. Michigan, Dearborn	352	12,460	5,742		11		4,579		1,832	281		15
U. Tennessee, Chattanooga	353	12,104	4,563		310		6,358		72	384		417
Rosalind Franklin U. of Medicine and Science	354	11,769	7,989		63		3,245		7	465		0
Fort Valley State U.	355	11,727	6,246		5,481		0		0	0		0
California State U., Monterey Bay	356	11,717	5,717		2,920		2,758		11	311		0
West Texas A&M U.	357	11,616	1,990		6,648		2,163		776	39		0
Central State U.	358	11,459	4,749		4,702		2,008		0	0		0
California State U., San Bernardino	359	11,339	6,998		1,652		1,924		0	765		0
Appalachian State U.	360	11,293	4,178		830		5,017		713	555		0
Western Kentucky U.	361	11,213	4,511		1,046		5,449		69	123		15
Eastern Michigan U.	362	11,202	3,500		1,525		5,736		84	357		0
Western U. of Health Sciences	363	11,190	7,285		2,462		176		407	860		0
U. San Francisco	364	10,962	1,709		429		8,629		0	195		0
Arkansas State U., Jonesboro	365	10,950	3,744		3,148		3,936		122	0		0
California State U., Los Angeles	366	10,889	9,598		139		1,037		0	115		0
Pepperdine U.	367	10,870	827		41		7,855		0	2,143		4
Wesleyan U.	368	10,819	5,676		23		3,833		51	638		598
Hampton U.	369	10,660	9,710		217		620		0	0		113



Table 4. Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2024

Institution	Rank	All R&D expenditures		Source of funds									
				Federal government		State and local government		Institution funds		Business	Nonprofit organizations		All other sources
U.S. Naval Academy	370	10,592		10,172		0		241		0	179		0
DePaul U.	371	10,522		5,341		580		2,428		478	1,504		191
U. Arkansas, Little Rock	372	10,461		9,624		373		63		4	362		35
Saint Joseph's U.	373	10,451		2,365		797		3,644		3,115	210		320
Hofstra U.	374	10,425		2,990		212		7,070		0	153		0
Yeshiva U.	375	10,290		2,348		0		6,685		0	149		1,108
MGH Institute of Health Professions	376	10,029		8,800		0		20		0	1,209		0
Rutgers, State U. New Jersey, Camden	377	9,849		2,772		1,907		3,712		892	561		5
Purdue U., Northwest	378	9,549		4,036		983		2,442		597	590		901
Gallaudet U.	379	9,524		5,300		21		3,202		0	24		977
Kean U.	380	9,479		3,130		1,364		4,436		72	477		0
Seton Hall U.	381	9,477		3,392		2,805		2,676		0	514		90
U. of the District of Columbia	382	9,386		6,253		0		3,133		0	0		0
Lincoln U., Jefferson City	383	9,261	i	5,189	i	4,033	i	39	i	0	0	i	0
Texas Woman's U.	384	8,998		3,026		2,384		2,507		180	901		0
Southern U. and A&M C., Agricultural Research and Extension Center	385	8,969		5,876		3,025		38		0	30		0
California State U., Chico	386	8,918		2,964		2,874		1,146		233	475		1,226
Middle Tennessee State U.	387	8,736		3,542		441		4,229		43	478		3
Amherst C.	388	8,666		3,091		0		3,379		0	254		1,942
C. Charleston	389	8,662		5,698		701		1,536		119	518		90
U. Hawaii, Hilo	390	8,501		6,015		121		894		69	1,381		21
U. Northern Colorado	391	8,476		1,325		125		6,847		28	151		0
California State U., Bakersfield	392	8,457		4,979		106		3,223		0	149		0
Lawrence Technological U.	393	8,435		4,253		1,396		1,091		352	1,343		0
Pacific U.	394	8,383		3,329		1,295		2,932		308	519		0
Texas A&M International U.	395	8,378		3,903		1,178		2,382		177	738		0
U. Wisconsin-Superior	396	8,355		7,452		149		462		0	35		257
Lamar U.	397	8,324		2,572		4,837		540		227	148		0
Edward Via C. of Osteopathic Medicine	398	8,132		686		256		6,940		0	250		0
U. New England	399	8,093		5,893		11		1,667		47	470		5
Santa Clara U.	400	8,011		3,494		125		3,062		338	944		48
U. Arkansas, Pine Bluff	401	7,975		4,728		1,304		1,893		7	43		0
U. Washington, Tacoma	402	7,973		5,319		601		814		19	1,053		167
Georgia C. and State U.	403	7,957		561		5		7,321		0	30		40
Abilene Christian U.	404	7,868		328		10		813		6,577	139		1
Benedict C.	405	7,788		4,201		660		0		0	1,901		1,026
Claremont McKenna C.	406	7,777		1,208		42		5,968		0	494		65

Table 4. Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds									
				Federal government		State and local government		Institution funds		Business	Nonprofit organizations		All other sources
Southern Connecticut State U.	407	7,620		1,159		237		5,646		58	431		89
Philadelphia C. of Osteopathic Medicine	408	7,611		225		0		3,515		2,295	1,576		0
U. Colorado Colorado Springs	409	7,528		6,025		26		989		308	65		115
Marian U., Indianapolis	410	7,524		1,598		245		5,453		0	223		5
Smith C.	411	7,375		3,459		0		2,230		171	484		1,031
Norfolk State U.	412	7,309		4,918		313		1,139		134	672		133
Texas A&M U.-San Antonio	413	7,149		3,916		176		2,779		69	201		8
Grinnell C.	414	7,131		634		0		5,365		21	563		548
Williams C.	415	7,074	i	1,537	i	0	i	2,400	i	0	197	i	2,940
Pennsylvania State U., Behrend	416	7,054		3,920		439		1,818		632	245		0
Grand Valley State U.	417	7,041	i	2,035	i	509	i	3,289	i	0	661	i	547
Wellesley C.	418	6,989		2,890		1,013		NA		289	2,797		0
Northwest Indian C.	419	6,988	i	5,172	i	0	i	1,816	i	0	0	i	0
Dine C.	420	6,960		4,692		878		730		0	660		0
West Chester U. Pennsylvania	421	6,870		1,822		100		4,580		58	310		0
U.S. Army War C.	422	6,819	i	6,793	i	5	i	6	i	5	5	i	5
Texas A&M U.-Commerce	423	6,811		2,412		922		2,865		0	563		49
Indiana U. Pennsylvania	424	6,568		1,536		283		4,151		159	428		11
New York Institute of Technology	425	6,559		3,710		68		2,452		1	328		0
Sul Ross State U.	426	6,546		3,900		244		1,811		100	210		281
U. Southern Maine	427	6,545		2,862		3,460		198		0	25		0
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	428	6,480		392		0		6,068		0	20		0
Barnard C.	429	6,361		4,334		0		1,113		41	873		0
Oregon Institute of Technology	430	6,311	i	1,548	i	4,447	i	NA		110	206	i	0
Bryn Mawr C.	431	6,302		1,152		0		4,892		0	258		0
CUNY, Lehman C.	432	6,259		4,313		0		1,468		427	41		10
Roseman U. of Health Sciences	433	6,198		63		11		6,080		33	11		0
Bucknell U.	434	6,193		2,692		137		1,841		442	276		805
Swarthmore C.	435	6,067		1,866		2		3,674		0	525		0
West Virginia State U.	436	6,059		3,779		1,951		305		0	24		0
U. of St. Thomas (MN)	437	5,994		1,391		3,251		592		251	451		58
CUNY, Baruch C.	438	5,977		2,168		191		2,752		44	626		196
Providence C.	439	5,924		5,021		0		705		0	198		0
Alfred U.	440	5,915		3,590		1,560		301		464	0		0
Morehouse C.	441	5,903		5,903		0		NA		0	0		0
Naval War C.	442	5,868		5,868		0		0		0	0		0
Fairfield U.	443	5,839		241		0		4,667		0	126		805

Table 4. Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds								
			Federal government	State and local government		Institution funds		Business	Nonprofit organizations		All other sources
Trinity U.	444	5,838	2,304	11		1,712		23	1,768	20	
U. Baltimore	445	5,797	3,471	1,832		NA		38	398	58	
California State U., Dominguez Hills	446	5,762	2,674	603		2,170		121	191	3	
Occidental C.	447	5,753	1,285	704		912		379	501	1,972	
CUNY, C. Staten Island	448	5,737	4,625	495		416		75	94	32	
Pennsylvania State U., Harrisburg	449	5,735	3,305	398		1,389		0	643	0	
Sacred Heart U.	450	5,698	1,337	0		4,292		23	46	0	
U. North Carolina, Asheville	451	5,677	3,295	535		515		12	1,319	1	
Dakota State U.	452	5,652	2,111	260		855		1,388	0	1,038	
U. New Haven	453	5,640	2,836	1,543		456		23	692	90	
High Tech High Graduate School of Ed.	454	5,585	0	0		0		0	5,585	0	
Hope C.	455	5,584	3,317	0		1,632		0	458	177	
Southeastern Louisiana U.	456	5,577	1,688	339		881		2,653	16	0	
Pomona C.	457	5,522	1,083	0		4,017		0	422	0	
Southern U. and A&M C., Baton Rouge	458	5,483	5,298	73		34		78	0	0	
U. Washington, Bothell	459	5,320	4,149	126		595		60	385	5	
Reed C.	460	5,154	2,377	59		2,152		0	472	94	
Rhode Island School of Design	461	5,130	342	55		323		3,725	613	72	
Coastal Carolina U.	462	5,094	2,341	1,131		1,404		0	218	0	
Trinity C., Hartford	463	5,074	545	0		4,433		0	96	0	
Austin Peay State U.	464	5,070	2,386	1,470		304		0	72	838	
National U.	465	5,022	2,725	0		1,023		175	1,099	0	
Carleton C.	466	4,993	3,167	17		780		0	711	318	
Toyota Technological Institute, Chicago	467	4,982	2,186	0		1,840		354	487	115	
Citadel Military C. South Carolina	468	4,969	4,699	63		207		0	0	0	
St. John's U., New York	469	4,947	3,685	20		466		458	232	86	
Sonoma State U.	470	4,928	3,755	770		322		19	62	0	
Suffolk U.	471	4,890	702	715		3,246		0	227	0	
Franklin and Marshall C.	472	4,815	1,924	260		876		364	749	642	
Claremont Graduate U.	473	4,808	1,061	443		913		633	1,269	489	
Colgate U.	474	4,730	1,509	0		3,102		33	86	0	
Seattle U.	475	4,699	1,389	166		2,229		55	860	0	
U. Wisconsin-Stevens Point	476	4,691	2,048	1,010		1,052		0	292	289	
Bentley U.	477	4,639	1,037	0		2,398		6	713	485	
Fort Lewis C.	478	4,582	3,866	30		149		0	537	0	
U. Detroit Mercy	479	4,550	3,797	3		657		93	0	0	
Spelman C.	480	4,537	4,201	0		0		0	336	0	

Table 4. Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2024

Institution	Rank	All R&D expenditures		Source of funds									
				Federal government		State and local government		Institution funds		Business	Nonprofit organizations		All other sources
Davidson C.	481	4,525		1,738		16		2,360		0	411		0
Colby C.	482	4,513		3,236		30		523		0	182		542
Stephen F. Austin State U.	483	4,502		951		1,630		1,325		111	333		152
U. Central Oklahoma	484	4,495		1,950		80		2,277		125	19		44
St. Cloud State U.	485	4,416		810		315		2,610		294	65		322
U. Northern Iowa	486	4,409		3,220		416		620		0	153		0
Monmouth U.	487	4,340		1,143		1,486		242		983	455		31
St. John Fisher U.	488	4,190		130		0		4,033		0	27		0
Albany State U.	489	4,163		3,973		66		0		58	21		45
Western Illinois U.	490	4,142	i	3,574	i	151	i	44	i	255	i	0	118
Haverford C.	491	4,103		1,955		0		892		0	686		570
New Mexico Highlands U.	492	4,074		3,348		497		166		0	63		0
National Louis U.	493	3,993		2,231		2		1,570		0	190		0
Keck Graduate Institute	494	3,972		2,644		32		373		348	248		327
Fayetteville State U.	495	3,942		3,256		262		0		0	0		424
East Stroudsburg U. Pennsylvania	496	3,916		1,071		2,064		735		0	46		0
Alabama State U.	497	3,901		3,408		0		0		0	493		0
Harvey Mudd C.	498	3,900		2,012		0		1,540		0	205		143
Whitman C.	499	3,891		323		0		3,445		0	123		0
Des Moines U.	500	3,889		402		0		3,362		18	107		0
Lake Superior State U.	501	3,876		1,826		137		774		140	53		946
California State U., Channel Islands	502	3,860		1,672		1,081		991		44	72		0
U. Nebraska, Kearney	503	3,796		1,645		773		1,306		56	0		16
Purdue U., Fort Wayne	504	3,791		265		903		1,216		151	349		907
Hawaii Pacific U.	505	3,784		2,083		233		162		1,053	253		0
U. Central del Caribe	506	3,780		2,068		356		1,211		0	0		145
SUNY, C. of Optometry	507	3,776		2,613		0		0		1,160	3		0
Vassar C.	508	3,775		2,205		25		1,124		0	395		26
Christopher Newport U.	509	3,764		2,224		5		1,329		45	124		37
Bowie State U.	510	3,731		3,714		0		0		0	17		0
U. Wisconsin-Eau Claire	511	3,730		1,740		566		980		426	13		5
Roger Williams U.	512	3,679		2,244		9		1,019		4	403		0
Hamilton C.	513	3,664		633		5		1,522		0	1,504		0
U. Texas, Tyler	514	3,632		1,976		294		539		462	361		0
Murray State U.	515	3,630		2,428		108		996		58	40		0
New England C. of Optometry	516	3,602		1,935		1,637		30		0	0		0
U. of the Incarnate Word	517	3,580		1,285		0		2,197		37	61		0

Table 4. Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2024

Institution	Rank	All R&D expenditures		Source of funds									
				Federal government		State and local government		Institution funds		Business	Nonprofit organizations		All other sources
Middlebury C.	518	3,576		3,135		0		13		0	428		0
Saginaw Valley State U.	519	3,552	i	2,818	i	0	i	546	i	7	158	i	23
Winthrop U.	520	3,466		2,894		0		538		1	33		0
Tougaloo C.	521	3,462		3,462		NA		NA		NA	NA		NA
National Defense U.	522	3,459		3,459		0		0		0	0		0
U. Wisconsin-Oshkosh	523	3,443		1,904		328		929		158	124		0
Fisk U.	524	3,425		2,681		240		0		0	504		0
Bowdoin C.	525	3,406		1,928		41		1,296		0	79		62
Azusa Pacific U.	526	3,401		245		33		3,004		0	119		0
Pace U.	527	3,348		2,067		17		1,098		0	166		0
Troy U.	528	3,318		2,441		36		587		10	191		53
Dillard U.	529	3,317		1,792		110		1,327		0	88		0
Northern Kentucky U.	530	3,271		2,289		15		835		7	125		0
SUNY, Oswego	531	3,242		2,176		28		1,015		2	3		18
Minnesota State U., Mankato	532	3,235		977		248		1,596		0	44		370
Furman U.	533	3,231		1,685		349		552		47	577		21
U. Central Arkansas	534	3,142		1,823		666		517		80	12		44
Milwaukee School of Engineering	535	3,090		573		5		67		2,425	20		0
U. Houston-Clear Lake	536	3,080		1,635		525		188		563	169		0
U. Wisconsin-La Crosse	537	3,068		1,051		721		571		631	94		0
U. Houston-Downtown	538	3,049		1,975		537		382		63	92		0
CUNY, New York City C. of Technology	539	3,033		2,260		0		347		0	419		7
Blackfeet Community C.	540	3,001		3,001		0		0		0	0		0
Elon U.	541	2,997		480		0		2,437		10	20		50
U. of Health Sciences and Pharmacy in St. Louis	542	2,976		1,867		241		777		35	56		0
U. Richmond	543	2,961		1,552		6		1,128		0	275		0
Eastern Washington U.	544	2,957		1,722		999		NA		63	137		36
U. Louisiana, Monroe	545	2,940		2,083		605		115		11	126		0
Lewis and Clark C.	546	2,924		1,051		56		1,675		0	142		0
C. New Jersey	547	2,857		1,779		183		470		0	425		0
Merrimack C.	548	2,852		1,339		0		1,003		0	224		286
U. Wisconsin-River Falls	549	2,847		575		2,160		54		37	21		0
Northeastern Illinois U.	550	2,844		2,844		0		0		0	0		0
St. Lawrence U.	551	2,824		211		18		2,590		0	5		0
Kettering U.	552	2,770		761		56		435		347	7		1,164
U. South Carolina Upstate	553	2,764		566		0		2,162		3	33		0
Skidmore C.	554	2,759		1,605		0		675		0	479		0

Table 4. Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds									
				Federal government		State and local government		Institution funds		Business	Nonprofit organizations		All other sources
Central Washington U.	555	2,757		1,693		616		253		20	151		24
Marymount U.	556	2,749		1,242		42		1,322		10	133		0
CUNY, system office	557	2,723		2,051		266		406		0	0		0
Chicago State U.	558	2,701		2,701		0		0		0	0		0
Youngstown State U.	559	2,691		2,491		37		109		22	32		0
La Sierra U.	560	2,688	i	1,148	i	0	i	790	i	0	750	i	0
Lafayette C.	561	2,684		1,557		0		942		0	148		37
U. Texas of the Permian Basin	562	2,682		1,294		544		633		114	0		97
Quinnipiac U.	563	2,661		59		0		2,178		49	57		318
Black Hills State U.	564	2,646		2,304		148		193		0	0		1
U. Wisconsin-Green Bay	565	2,637		1,131		644		625		121	116		0
Pittsburg State U.	566	2,577		1,199		1,034		NA		344	0		0
U. Illinois, Springfield	567	2,552		712		586		1,009		0	245		0
Virginia Military Institute	568	2,506		1,855		254		395		0	2		0
Calvin U.	569	2,490		803		40		358		4	1,008		277
SUNY, Buffalo State U.	570	2,453		1,419		740		268		9	17		0
California State U., Stanislaus	571	2,440		1,705		514		154		65	2		0
Seattle Pacific U.	572	2,414		564		225		61		0	1,499		65
U. Alaska, Southeast	573	2,398		1,492		41		561		6	158		140
Florida Polytechnic U.	574	2,391		939		380		908		109	55		0
John Carroll U.	575	2,378		1,052		301		540		0	485		0
Savannah State U.	576	2,376		2,376		0		0		0	0		0
Mount Holyoke C.	577	2,372		1,394		4		379		0	589		6
U. of the Pacific	578	2,362		1,510		622		NA		103	127		0
Touro U., California	579	2,356		923		0		1,396		34	3		0
Western Carolina U.	580	2,333		1,651		212		359		83	28		0
Morehead State U.	581	2,295		1,029		404		13		790	10		49
Union C., Schenectady	582	2,263		1,288		0		796		13	20		146
Utah Valley U.	583	2,254		1,306		492		368		0	88		0
Stockton U.	584	2,253		701		273		775		367	137		0
Manhattan C.	585	2,184		1,131		199		541		313	0		0
Colorado C.	586	2,178		389		0		1,164		0	625		0
U. Puerto Rico, Cayey	587	2,173		1,259		0		574		0	340		0
Alaska Pacific U.	588	2,168		1,183		50		0		891	0		44
California Baptist U.	589	2,148		0		23		1,188		62	875		0
Emerson C.	590	2,111		87		24		1,528		0	365		107
Bates C.	591	2,066		909		22		500		0	634		1

Table 4. Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds											
				Federal government		State and local government		Institution funds		Business	Nonprofit organizations		All other sources		
U.S. Coast Guard Academy	592	2,051		289		0		1,714		0		48		0	
Ferris State U.	593	2,046		1,103		629		226		57		31		0	
U. Michigan, Flint	594	2,023		627		38		1,255		19		65		19	
Lipscomb U.	595	2,011		245		0		1,706		27		33		0	
Nevada State U.	596	1,989		1,989		0		0		0		0		0	
Hobart and William Smith Colleges	597	1,984		767		94		446		0		88		589	
Marshall B. Ketchum U.	598	1,950	i	457	i	0	i	989	i	504	i	0	i	0	i
Macalester C.	599	1,948		859		0		629		0		460		0	
U. Hartford	600	1,944		1,601		0		181		140		22		0	
SUNY, C. Brockport	601	1,932		889		203		473		2		166		199	
U. Puerto Rico, Humacao	601	1,932		1,759		0		173		0		0		0	
Northern Michigan U.	603	1,931		752		4		946		11		152		66	
Oberlin C.	604	1,926		1,142		15		741		0		28		0	
Southern Utah U.	605	1,897		1,331		261		305		0		0		0	
Erikson Institute	606	1,889		904		0		105		0		880		0	
Heidelberg U.	607	1,876		241		1,428		173		0		34		0	
Norwich U.	608	1,875		1,611		2		262		0		0		0	
Colorado State U., Pueblo	609	1,835	i	1,072	i	226	i	394	i	0	i	0	i	143	i
SUNY, Geneseo	610	1,820		1,062		8		600		0		131		19	
Franklin W. Olin C. of Engineering	611	1,819		595		0		584		67		536		37	
Claflin U.	612	1,816		1,816		0		0		0		0		0	
U. North Georgia	613	1,805		589		19		1,040		5		152		0	
United Tribes Technical C.	614	1,800		1,757		1		0		0		42		0	
Babson C.	615	1,783		351		0		610		2		92		728	
Biola U.	616	1,761		0		0		NA		0		1,615		146	
Lincoln Memorial U.	617	1,756		6		4		1,613		6		127		0	
Andrews U.	618	1,751		638		0		858		0		255		0	
Dickinson C.	619	1,743		707		130		399		0		507		0	
Texas A&M U.-Central Texas	620	1,726		1,710		0		16		0		0		0	
Pratt Institute	621	1,709	i	53	i	964	i	0	i	0	i	692	i	0	i
U. Portland	622	1,698		671		139		418		0		470		0	
Arcadia U.	623	1,692		955		387		0		0		350		0	
U. Wisconsin-Platteville	624	1,674	i	523	i	428	i	282	i	384	i	44	i	13	i
U. Ana G. Mendez, Gurabo	625	1,660		1,660		0		0		0		0		0	
Saint John's U.	626	1,623	i	0	i	0	i	1,623	i	0	i	0	i	0	i
U. South Carolina, Aiken	627	1,609		1,183		3		415		0		8		0	
Hartford International U. for Religion and Peace	628	1,599	i	0	i	0	i	0	i	0	i	1,599	i	0	i

Table 4. Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds												
			Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources		
Liberty U.	629	1,597		548		53		872		124		0		0	
Northland C.	630	1,582	i	929	i	46	i	258	i	0	i	349	i	0	i
Pennsylvania State U., Altoona	631	1,572		448		0		724		166		234		0	
St. Edward's U.	632	1,570		141		117		1,086		0		226		0	
Eckerd C.	633	1,558		369		170		472		197		350		0	
C. of Saint Benedict	634	1,536	i	61	i	0	i	1,475	i	0	i	0	i	0	i
U. Hawaii, Maui C.	635	1,518		1,443		0		47		0		28		0	
CUNY, York C.	636	1,515		1,318		0		156		0		41		0	
St. Olaf C.	637	1,500		796		12		593		0		99		0	
West Virginia School of Osteopathic Medicine	638	1,491		342		0		1,149		0		0		0	
Drake U.	639	1,485		936		161		283		25		78		2	
Saint Mary's U. Minnesota	640	1,480		822		469		189		0		0		0	
Willamette U.	641	1,470		416		0		797		0		257		0	
Kenyon C.	642	1,466		1,069		0		219		0		178		0	
National U. of Natural Medicine	642	1,466	i	910	i	0	i	358	i	198	i	0	i	0	i
SUNY, C. Plattsburgh	644	1,465		893		0		494		0		77		1	
U. Virginia's C. Wise	645	1,464		1,207		87		149		0		16		5	
New C. Florida	646	1,459		296		0		458		495		114		96	
U. Maine Farmington	647	1,457	i	1,038	i	102	i	226	i	28	i	45	i	18	i
Wheaton C., Wheaton	648	1,445		182		0		519		7		737		0	
Adelphi U.	649	1,435		622		0		813		0		0		0	
Eastern Kentucky U.	649	1,435		871		275		220		0		69		0	
U. Scranton	649	1,435		1,109		0		219		20		87		0	
Eastern Connecticut State U.	652	1,420		197		0		1,223		0		0		0	
Roosevelt U.	653	1,418		614		87		497		0		220		0	
Robert Morris U.	654	1,412		706		61		592		22		31		0	
U. North Carolina, general administration	655	1,403		0		0		1,403		0		0		0	
Scripps C.	656	1,398		484		0		404		0		104		406	
Graduate School of the Stowers Institute for Medical Research	657	1,371		0		0		0		0		1,371		0	
Loyola U., Maryland	658	1,362		820		57		156		0		329		0	
U. of Mary Washington	659	1,333		610		3		667		0		53		0	
Butler U.	660	1,313		1,004		0		215		35		59		0	
C. Wooster	661	1,296		390		0		685		0		221		0	
Radford U.	662	1,291		84		143		986		37		41		0	
Metropolitan State U. of Denver	663	1,282		1,043		2		85		0		152		0	
Midwestern State U.	664	1,261		565		96		414		66		119		1	
Bluefield State U.	665	1,258		903		355		0		0		0		0	



Table 4. Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2024

Institution	Rank	All R&D expenditures		Source of funds											
				Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources	
Hult International Business School	666	1,248	i	598	i	28	i	400	i	43	i	127	i	52	i
U. Puget Sound	666	1,248		1,102		0		104		0		42		0	
Eastern Illinois U.	668	1,242		639		98		206		0		299		0	
SUNY, Polytechnic Institute	669	1,234		707		130		207		29		156		5	
Weber State U.	670	1,217		827		63		60		75		50		142	
California Lutheran U.	671	1,201		181		0		897		0		123		0	
Western New England U.	671	1,201	i	579	i	58	i	326	i	96	i	142	i	0	i
American Samoa Community C.	673	1,195		1,164		0		31		0		0		0	
SUNY, Potsdam	673	1,195		961		14		156		0		64		0	
Pennsylvania State U., Berks	675	1,187		994		0		86		0		107		0	
Concord U.	676	1,178		1,161		17		0		0		0		0	
U. South Carolina, Beaufort	677	1,177		615		27		469		0		66		0	
Roanoke C.	678	1,173		5		0		745		0		423		0	
Illinois C. of Optometry	679	1,158		5		0		305		846		2		0	
Juniata C.	680	1,155		939		0		192		0		24		0	
Gettysburg C.	681	1,154		562		0		120		0		157		315	
SUNY, Cobleskill	682	1,149		805		344		0		0		0		0	
La Salle U.	683	1,147	i	0	i	0	i	1,147	i	0	i	0	i	0	i
Indiana State U.	684	1,138		838		17		189		65		16		13	
Montana State U., Billings	685	1,135		856		0		242		37		0		0	
Southern C. of Optometry	686	1,125		10		0		5		1,110		0		0	
Nicholls State U.	687	1,120		558		396		19		25		122		0	
Albany C. of Pharmacy and Health Sciences	688	1,113		578		0		322		167		46		0	
Denison U.	689	1,110	i	622	i	0	i	371	i	0	i	117	i	0	i
Connecticut C.	690	1,096		466		10		497		0		122		1	
Louisiana State U., Shreveport	691	1,090		735		2		246		0		107		0	
Elizabeth City State U.	692	1,078		642		430		0		6		0		0	
Indiana U., South Bend	693	1,071		250		12		707		0		88		14	
CUNY, Medgar Evers C.	694	1,070		471		73		215		57		249		5	
Bradley U.	695	1,066		730		29		251		0		21		35	
Aaniih Nakoda C.	696	1,045		1,045		0		0		0		0		0	
Southern Oregon U.	697	1,023		749		129		22		95		28		0	
Gonzaga U.	698	1,022		518		0		215		0		289		0	
Lake Erie C. of Osteopathic Medicine	699	1,019		0		0		639		0		380		0	
Ursinus C.	700	1,015		940		0		0		0		75		0	
St. Bonaventure U.	701	1,003		646		0		6		0		190		161	
High Point U.	702	1,000	i	565	i	14	i	251	i	64	i	79	i	27	i

Table 4. Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds									
				Federal government		State and local government		Institution funds		Business	Nonprofit organizations		All other sources
U. Tampa	703	994		288		14		561		77	41		13
Stetson U.	704	985		836		0		149		0	0		0
Loyola U., New Orleans	705	982		125		73		52		0	177		555
Central Connecticut State U.	706	966		457		74		380		0	55		0
Bridgewater State U.	707	941		526		39		364		0	12		0
Johnson C. Smith U.	708	936		915		0		0		0	21		0
Plymouth State U.	709	934		805		21		96		0	12		0
Augsburg U.	710	925		410		1		194		0	0		320
U. Minnesota, Rochester	711	921		0		0		896		0	0		25
Valparaiso U.	712	918		799		4		68		33	14		0
Minerva U.	713	916		0		0		0		0	0		916
U. North Texas, Dallas	714	911		26		0		799		0	86		0
Northeastern State U.	715	908		762		26		42		2	12		64
U. Wisconsin-Stout	716	906		443		340		98		0	2		23
Angelo State U.	717	903		224		512		60		0	67		40
U. Central Missouri	718	900		763		105		29		0	3		0
Wilkes U.	719	894		183		0		294		397	20		0
Geisinger Commonwealth School of Medicine	720	886		12		0		0		874	0		0
U. Puerto Rico, Ponce	721	875		787		0		79		0	9		0
West Liberty U.	722	871		486		118		233		0	34		0
Niagara U.	723	869		404		0		132		0	158		175
Kalamazoo C.	724	866	i	300	i	7	i	407	i	0	152	i	0
Gustavus Adolphus C.	725	860		318		0		163		227	86		66
Xavier U.	725	860		626		0		158		0	76		0
Baldwin Wallace U.	727	844		380		186		28		35	0		215
Keene State C.	727	844		745		0		79		0	20		0
Augustana U.	729	831	i	800	i	6	i	6	i	6	6	i	7
Gannon U.	730	829		71		338		309		21	90		0
St. Catherine U.	731	824		517		0		26		0	186		95
Iona U.	732	817		817		0		0		0	0		0
Simmons U.	733	814		340		0		310		0	164		0
C. of the Holy Cross	734	813		539		0		0		0	274		0
William Paterson U.	735	808		537		17		224		0	27		3
Southwestern U.	736	804		189		0		171		0	87		357
Lawrence U.	737	803		220		0		396		0	20		167
Northwestern State U. Louisiana	738	798		618		13		167		0	0		0
Alverno C.	739	796		796		0		0		0	0		0

Table 4. Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds										
			Federal government		State and local government		Institution funds		Business	Nonprofit organizations		All other sources	
Polytechnic U. Puerto Rico	739	796	796		NA		NA		NA		NA		NA
Fairleigh Dickinson U.	741	793	787		0		0		0		6		0
Saint Michael's C.	742	790	637		0		101		0		52		0
Ithaca C.	743	787	399		144		133		0		61		50
Auburn U., Montgomery	744	779	446		0		329		0		4		0
San Juan Bautista School of Medicine	745	778	566		0		212		0		0		0
Fort Hays State U.	746	774	497		124		77		50		1		25
Sewanee: U. of the South	747	771	39		0		428		0		191		113
Rollins C.	748	759	288		0		302		0		169		0
Siena C.	749	755	361		0		382		0		12		0
Francis Marion U.	750	754	280		405		0		0		0		69
Eastern New Mexico U., Portales	751	753	664		31		58		0		0		0
Widener U., Chester	752	752	517		97		0		0		85		53
Palmer C. of Chiropractic, Davenport	753	750	500		0		250		0		0		0
Bethune-Cookman U.	754	747	747		0		0		0		0		0
Regis U.	754	747	599		0		126		0		22		0
U. Bridgeport	754	747	280		0		377		20		70		0
Coe C.	757	734	542		27		21		0		0		144
Pennsylvania State U., Abington	757	734	180		0		476		0		27		51
Pennsylvania Western U.	759	726	678		0		42		0		6		0
Allegheny C.	760	720	362		72		232		0		54		0
Pennsylvania State U., Great Valley School of Graduate Professional Studies	761	716	110		0		548		58		0		0
Point Loma Nazarene U.	762	708	17		173		30		85		118		285
Touro U., Nevada	762	708	63		0		569		32		44		0
Indiana Wesleyan U.	764	707	276		0		376		0		55		0
U. West Georgia	765	705	447		21		20		0		217		NA
Evergreen State C.	766	704	129		190		0		0		0		385
Utica U.	767	703	90		0		613		0		0		0
Susquehanna U.	768	700	210		0		129		0		361		0
Lincoln U.	769	695	584		111		0		0		0		0
Ohio Wesleyan U.	770	682	517		0		165		0		0		0
Berry C.	771	670	534		0		43		0		93		0
Salve Regina U.	771	670	562		0		60		0		48		0
SUNY, Old Westbury	773	663	542		0		80		0		16		25
East Central U.	774	662	590		6		65		1		0		0
SUNY, Farmingdale State C.	775	658	305		0		353		0		0		0
Kansas City U.	776	653	425		0		130		0		95		3

Table 4. Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds											
				Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources	
Salish Kootenai C.	777	647		647		0		0		0		0		0	
Saint Francis U.	778	637	i	261	i	0	i	28	i	0	i	0	i	348	i
Georgia Gwinnett C.	779	633		596		5		30		0		2		0	
Oakwood U.	780	623		569		0		17		37		0		0	
Lake Forest C.	781	617	i	44	i	0	i	484	i	0	i	52	i	37	i
Fairmont State U.	782	610		610		0		0		0		0		0	
Oglala Lakota C.	783	594		594		0		0		0		0		0	
U. Minnesota, Morris	784	593		76		70		447		0		0		0	
Barry U.	785	586		123		0		29		307		127		0	
Ramapo C. New Jersey	786	583		523		0		60		0		0		0	
Emporia State U.	787	577		317		12		239		0		9		0	
Whitworth U.	788	571		206		24		244		2		95		0	
Jacksonville State U.	789	569		381		16		113		0		59		0	
St. Norbert C.	790	557		352		0		49		18		3		135	
Truman State U.	791	551		274		1		230		0		0		46	
Sonoran U. Health Sciences	792	550		0		0		50		500		0		0	
Columbus State U.	793	549		411		1		21		NA		116		0	
Truckee Meadows Community C.	794	548		548		0		0		0		0		0	
Colorado Mesa U.	795	541		390		0		0		0		151		0	
Salus U.	796	540		420		9		28		79		4		0	
Dordt U.	797	533		475		0		43		0		15		0	
Elmhurst U.	798	526		31		0		470		0		25		0	
Rider U.	799	524		261		0		218		0		45		0	
Canisius U.	800	521		422		0		0		0		99		0	
Luther C.	800	521		51		32		208		0		228		2	
Southwestern Oklahoma State U.	802	512		277		66		120		0		49		0	
U. Puerto Rico, Aguadilla	802	512		502		0		10		0		0		0	
Palo Alto U.	804	509	i	242	i	0	i	131	i	2	i	37	i	97	i
McNeese State U.	805	502		36		33		375		0		58		0	
Ouachita Baptist U.	806	501		501		NA		0		0		0		0	
U. Houston-Victoria	806	501		501		0		0		0		0		0	
Wabash C.	808	494		302		0		188		0		4		0	
Western Connecticut State U.	809	490		153		134		203		0		0		0	
U. Minnesota, Crookston	810	489		0		281		208		0		0		0	
Grambling State U.	811	486	i	410	i	55	i	21	i	0	i	0	i	0	i
Moravian U.	811	486		333		0		153		0		0		0	
Hendrix C.	813	484		435		0		49		0		0		0	

Table 4. Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds									
				Federal government		State and local government		Institution funds		Business	Nonprofit organizations		All other sources
Earlham C.	814	478		15		0		60		0	11		392
Arkansas Tech U.	815	474		303		162		0		9	0		0
MCPHS U.	816	468		242		0		195		7	24		0
Lewis-Clark State C.	817	463		463		0		0		0	0		0
U. Wisconsin-Whitewater	817	463		137		106		0		50	105		65
Benedictine U.	819	461		276		0		149		0	36		0
Bryant U.	820	459		358		0		101		0	0		0
SUNY, New Paltz	820	459		235		0		184		5	30		5
Shaw U.	822	452	i	171	i	281	i	0	i	0	0	i	0
Northwest Nazarene U.	823	451		243		0		208		0	0		0
Kutztown U. Pennsylvania	824	446		289		31		126		0	0		0
Wheaton C., Norton	825	445		217		0		NA		0	228		NA
Pitzer C.	826	443		84		0		359		0	0		0
Cornell C.	827	440		107		0		260		0	73		0
Northern New Mexico C.	828	432		432		0		0		0	0		0
Pacific Lutheran U.	829	429		201		0		80		0	148		0
Westmont C.	830	426	i	240	i	0	i	0	i	0	186	i	0
U. Puerto Rico, Arecibo	831	418		342		0		76		0	0		0
Central Wyoming C.	832	415		415		0		0		0	0		0
St. Mary's C. Maryland	832	415		288		61		0		0	66		0
Muhlenberg C.	834	414		76		5		140		12	17		164
Minnesota State U., Moorhead	835	409	i	28	i	221	i	93	i	3	51	i	13
U. Ana G. Mendez, Carolina	836	407		407		0		0		0	0		0
Southern California U. of Health Sciences	837	406		397		0		0		0	9		0
Augustana C.	838	405		254		0		96		4	47		4
Albizu U.	839	403		0		0		0		0	403		0
A. T. Still U. of Health Sciences	840	401		310		0		67		0	24		0
Bryn Athyn C.	841	396	i	0	i	0	i	299	i	0	97	i	0
Stonehill C.	842	394		67		0		305		0	22		0
Clayton State U.	843	393		387		6		0		0	0		0
American C. of Financial Services	844	392		0		0		392		0	0		0
Coker U.	845	391		278		0		0		0	113		0
SUNY, C. Cortland	846	388		103		86		27		0	172		0
Fond du Lac Tribal and Community C.	847	387		387		0		0		0	0		0
Northwest Missouri State U.	847	387		93		0		294		0	0		0
Minot State U.	849	384		347		1		36		0	0		0
DePauw U.	850	373		100		0		249		0	24		0

Table 4. Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds									
				Federal government		State and local government		Institution funds		Business	Nonprofit organizations		All other sources
Indiana U., Southeast	850	373		18		59		295		0	1		0
Converse U.	852	371		286		0		11		0	15		59
Molloy C.	853	361		216		89		56		0	0		0
Wittenberg U.	854	357	i	171	i	0	i	186	i	0	0	i	0
Transylvania U.	855	353		93		0		237		0	23		0
Life Chiropractic C.-West	856	350		0		0		350		0	0		0
Slippery Rock U. Pennsylvania	857	348		67		17		243		0	21		0
Doane U.	858	345		326		0		19		0	0		0
Austin C.	859	344		54		0		133		0	157		0
Indiana U., Northwest	860	342		119		0		222		0	1		0
Arkansas C. of Health Education	861	327		5		0		212		4	61		45
Gordon C.	862	317		134		0		66		0	1		116
U. Maine, Augusta	863	312		23		93		193		0	3		0
Valdosta State U.	863	312		97		51		67		0	97		0
Hamline U.	865	310		226		0		84		0	0		0
Marist C.	866	308		149		0		42		22	50		45
Pontifical Catholic U. Puerto Rico, Ponce	866	308		98		0		210		0	0		0
Commonwealth U. of Pennsylvania	868	306		126		49		114		0	17		0
Coppin State U.	869	304		151		0		0		1	82		70
West Virginia U., Institute of Technology	869	304		176		110		17		0	0		1
Pennsylvania State U., Wilkes-Barre	871	301		301		0		0		0	0		0
Rhode Island C.	871	301		298		0		NA		0	3		0
National U. of Health Sciences	873	300		0		0		300		0	0		0
Alabama C., Osteopathic Medicine	874	296		0		0		296		0	0		0
Taylor U.	875	292		45		0		62		176	0		9
Indiana U., Kokomo	876	288		0		0		278		0	10		0
Dickinson State U.	877	284		70		0		214		0	0		0
Jacksonville U.	877	284		0		263		0		0	21		0
California U. of Science and Medicine	879	280		0		0		240		0	40		0
Centre C.	879	280		264		0		16		0	0		0
SUNY, Oneonta	881	275		34		5		173		1	27		35
Bard C.	882	271		73		0		198		0	0		0
Southern Arkansas U.	883	263		76		5		182		0	0		0
Pacific Northwest U. of Health Sciences	884	262		157		0		101		0	0		4
Washington and Lee U.	885	259		229		0		NA		0	30		0
Longwood U.	886	256		214		0		39		0	3		0
Mayville State U.	887	251		248		3		0		0	0		0

Table 4. Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds											
				Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources	
U. Tennessee, Martin	888	250		88		3		85		16		35		23	
Rogers State U.	889	245		81		124		40		0		0		0	
Fuller Theological Seminary	890	242		69		0		10		0		163		0	
U. North Alabama	891	234		151		0		83		0		0		0	
Concordia C., Moorhead	892	233		52		17		163		0		0		1	
Indiana U., East	893	228		53		0		175		0		0		0	
Life U.	894	224		0		0		161		42		6		15	
Millersville U. Pennsylvania	895	223		4		14		182		0		22		1	
U. Ana G. Mendez, Cupey	895	223		223		0		0		0		0		0	
SUNY, Purchase C.	897	217		159		8		41		0		9		0	
Nueta Hidatsa Sahnish C.	898	213		213		0		0		0		0		0	
Delta State U.	899	212		182		0		30		0		0		0	
Metropolitan State U.	899	212	i	113	i	14	i	58	i	10	i	11	i	6	i
Oral Roberts U.	901	205	i	0	i	0	i	15	i	0	i	0	i	190	i
U. Evansville	901	205		84		0		99		0		0		22	
Whittier C.	903	202		53		0		19		0		130		0	
Montana State U., Northern	904	200		200		0		0		0		0		0	
U. Southern Indiana	904	200		93		0		92		0		15		0	
LeTourneau U.	906	198		47		0		80		15		56		0	
California State U., system office	907	197		197		0		NA		0		0		0	
Maryland Institute C. of Art	908	196		191		0		0		0		0		5	
U. Lynchburg	908	196	i	110	i	2	i	48	i	14	i	17	i	5	i
C. Southern Nevada	910	190		182		8		0		0		0		0	
Carthage C.	911	188		76		0		0		0		95		17	
Eastern Mennonite U.	912	187		187		0		0		0		0		0	
Northern State U.	912	187		115		10		59		0		3		0	
Agnes Scott C.	914	179		144		0		35		0		0		0	
Concordia U., Wisconsin	915	169		150		0		11		0		8		0	
Goucher C.	916	166		92		0		74		0		0		0	
Antioch U.	917	164		107		20		0		0		37		0	
Manchester U.	918	163		0		0		37		0		10		116	
Cooper Union	919	162		144		0		0		0		0		18	
Mississippi Valley State U.	920	161		147		0		14		0		0		0	
William Carey U.	920	161		38		16		72		35		0		0	
California State U., Maritime Academy	922	152		86		2		19		45		0		0	
Fitchburg State U.	923	150	i	92	i	20	i	27	i	2	i	6	i	3	i
Jarvis Christian U.	923	150	i	65	i	5	i	52	i	6	i	16	i	6	i

Table 4. Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds											
				Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources	
Johnson and Wales U., Providence	923	150	i	85	i	2	i	37	i	10	i	12	i	4	i

i = imputed. NA = not available; data were not provided by institution.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$2,549,821 thousand in total R&D expenditures in FY 2024.

<sup>b</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>c</sup> The University of Oklahoma includes expenditures from the University of Oklahoma, Tulsa and University of Oklahoma, Norman and Health Science Center campuses. Due to a reorganization, the campuses began reporting as one unit in FY 2024.

**Note(s):**  
Institutions are included in the short form population if they reported less than \$1 million in total R&D expenditures during the previous fiscal year. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 5](#).

**Source(s):**  
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2024.



**Table 5. Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2024**

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures	
Alabama	1,760,926	
Public	1,730,287	
Alabama A&M U.	16,248	
Alabama State U.	3,901	
Auburn U. System	394,336	
Auburn U., Auburn	393,557	
Auburn U., Montgomery	779	
Jacksonville State U.	569	
Troy U.	3,318	
U. Alabama System	1,241,597	
U. Alabama, Birmingham	865,868	
U. Alabama, Huntsville	154,494	
U. Alabama, Tuscaloosa	221,235	
U. North Alabama	234	
U. South Alabama	70,084	
Private	30,639	
Alabama C., Osteopathic Medicine	296	
Oakwood U.	623	
Tuskegee U.	29,720	
Alaska	275,510	
Public (U. Alaska System)	273,342	
U. Alaska, Anchorage	24,649	
U. Alaska, Fairbanks	246,295	
U. Alaska, Southeast	2,398	
Private	2,168	
Alaska Pacific U.	2,168	
Arizona	2,116,934	
Public	2,116,384	
Arizona Board of Regents	2,109,424	
Arizona State U.	1,003,271	
Northern Arizona U.	93,749	
U. Arizona	1,012,404	
Dine C.	6,960	
Private	550	
Sonoran U. Health Sciences	550	
Arkansas	492,045	
Public	490,733	
Arkansas State U. System	10,950	
Arkansas State U., Jonesboro	10,950	
Arkansas Tech U.	474	
Southern Arkansas U.	263	
U. Arkansas System	475,904	
U. Arkansas for Medical Sciences	226,842	i
U. Arkansas, Fayetteville	230,626	
U. Arkansas, Little Rock	10,461	
U. Arkansas, Pine Bluff	7,975	
U. Central Arkansas	3,142	
Private	1,312	
Arkansas C. of Health Education	327	
Hendrix C.	484	
Ouachita Baptist U.	501	

**Table 5. Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2024**

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
California	14,378,752
Public	10,294,745
California State U. System	628,881
California Polytechnic State U., San Luis Obispo	38,133
California State Polytechnic U., Humboldt	26,607
California State Polytechnic U., Pomona	13,685
California State U., Bakersfield	8,457
California State U., Channel Islands	3,860
California State U., Chico	8,918
California State U., Dominguez Hills	5,762
California State U., East Bay	14,307
California State U., Fresno	14,410
California State U., Fullerton	33,709
California State U., Long Beach	33,897
California State U., Los Angeles	10,889
California State U., Maritime Academy	152
California State U., Monterey Bay	11,717
California State U., Northridge	27,009
California State U., Sacramento	33,952
California State U., San Bernardino	11,339
California State U., San Marcos	12,788
California State U., Stanislaus	2,440
California State U., system office	197
San Diego State U.	181,600
San Francisco State U.	42,000
San Jose State U.	88,125
Sonoma State U.	4,928
Naval Postgraduate School	73,230
U. California System	9,592,634
U. California, Berkeley	1,126,782
U. California, Davis	1,005,757
U. California, Irvine	644,948
U. California, Los Angeles	1,896,227
U. California, Merced	77,233
U. California, Office of the President	79,293
U. California, Riverside	231,596
U. California, San Diego	1,881,289
U. California, San Francisco	2,127,637
U. California, Santa Barbara	303,446
U. California, Santa Cruz	218,426
Private	4,084,007
Azusa Pacific U.	3,401
Biola U.	1,761
California Baptist U.	2,148
California Institute of Technology	445,173
California Lutheran U.	1,201
California U. of Science and Medicine	280
Chapman U.	48,308
Charles R. Drew U. of Medicine and Science	23,664
Fuller Theological Seminary	242
High Tech High Graduate School of Ed.	5,585

**Table 5. Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2024**

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures	
La Sierra U.	2,688	i
Life Chiropractic C.-West	350	
Loma Linda U.	23,898	
Loyola Marymount U.	15,570	
Marshall B. Ketchum U.	1,950	i
Minerva U.	916	
National U. System	5,022	
National U.	5,022	
Occidental C.	5,753	
Palo Alto U.	509	i
Pepperdine U.	10,870	
Point Loma Nazarene U.	708	
Santa Clara U.	8,011	
Scripps Research Institute	501,468	
Southern California U. of Health Sciences	406	
Stanford U.	1,641,961	
The Claremont Colleges	27,820	
Claremont Graduate U.	4,808	
Claremont McKenna C.	7,777	
Harvey Mudd C.	3,900	
Keck Graduate Institute	3,972	
Pitzer C.	443	
Pomona C.	5,522	
Scripps C.	1,398	
Touro C. and U. System <sup>a</sup>	2,356	
Touro U., California	2,356	
U. of the Pacific	2,362	
U. San Diego	12,649	
U. San Francisco	10,962	
U. Southern California	1,264,197	
Western U. of Health Sciences	11,190	
Westmont C.	426	i
Whittier C.	202	
Colorado	2,196,124	
Public	2,137,569	
Colorado Mesa U.	541	
Colorado School of Mines	109,905	
Colorado State U. System	468,221	
Colorado State U., Fort Collins	466,386	
Colorado State U., Pueblo	1,835	i
Fort Lewis C.	4,582	
Metropolitan State U. of Denver	1,282	
U. Colorado System	1,491,404	
U. Colorado Anschutz Medical Campus	741,643	
U. Colorado Boulder	717,920	
U. Colorado Colorado Springs	7,528	
U. Colorado Denver	24,313	
U. Northern Colorado	8,476	
U.S. Air Force Academy	53,158	
Private	58,555	
Colorado C.	2,178	

**Table 5. Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2024**

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures	
Regis U.	747	
U. Denver	55,630	
Connecticut	2,006,903	
Public	446,092	
Connecticut State U. System	10,496	
Central Connecticut State U.	966	
Eastern Connecticut State U.	1,420	
Southern Connecticut State U.	7,620	
Western Connecticut State U.	490	
U. Connecticut	433,545	
U.S. Coast Guard Academy	2,051	
Private	1,560,811	
Connecticut C.	1,096	
Fairfield U.	5,839	
Hartford International U. for Religion and Peace	1,599	i
Quinnipiac U.	2,661	
Sacred Heart U.	5,698	
Trinity C., Hartford	5,074	
U. Bridgeport	747	
U. Hartford	1,944	
U. New Haven	5,640	
Wesleyan U.	10,819	
Yale U.	1,519,694	
Delaware	509,504	
Public	509,504	
Delaware State U.	43,724	
U. Delaware	465,780	
District of Columbia	1,018,427	
Public	12,845	
National Defense U.	3,459	
U. of the District of Columbia	9,386	
Private	1,005,582	
American U.	78,356	
Catholic U. of America	57,705	
Gallaudet U.	9,524	
George Washington U.	381,582	
Georgetown U.	376,600	
Howard U.	101,815	
Florida	3,791,349	
Public (State U. Florida Board of Governors)	3,112,938	
Florida A&M U.	68,674	
Florida Atlantic U.	87,906	
Florida Gulf Coast U.	23,841	
Florida International U.	325,785	
Florida Polytechnic U.	2,391	
Florida State U.	460,733	
New C. Florida	1,459	
U. Central Florida	284,943	
U. Florida	1,272,493	
U. North Florida	19,318	
U. South Florida	521,892	

**Table 5. Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2024**

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
U. West Florida	43,503
Private	678,411
Barry U.	586
Bethune-Cookman U.	747
Eckerd C.	1,558
Embry-Riddle Aeronautical U.	35,014
Florida Institute of Technology	17,842
Jacksonville U.	284
Nova Southeastern U.	60,629
Rollins C.	759
Stetson U.	985
U. Miami	559,013
U. Tampa	994
Georgia	4,079,070
Public (U. System Georgia Board of Regents)	2,692,376
Albany State U.	4,163
Augusta U.	166,219
Clayton State U.	393
Columbus State U.	549
Fort Valley State U.	11,727
Georgia C. and State U.	7,957
Georgia Gwinnett C.	633
Georgia Institute of Technology	1,528,637
Georgia Southern U.	46,093
Georgia State U.	241,115
Kennesaw State U.	51,575
Savannah State U.	2,376
U. Georgia	628,117
U. North Georgia	1,805
U. West Georgia	705
Valdosta State U.	312
Private	1,386,694
Agnes Scott C.	179
Berry C.	670
Clark Atlanta U.	13,424
Emory U.	1,246,507
Life U.	224
Mercer U.	46,504
Morehouse C.	5,903
Morehouse School of Medicine	68,746
Spelman C.	4,537
Hawaii	403,976
Public (U. Hawaii System)	400,192
U. Hawaii, Hilo	8,501
U. Hawaii, Manoa	375,631
U. Hawaii, Maui C.	1,518
U. Hawaii, system office	14,542
Private	3,784
Hawaii Pacific U.	3,784
Idaho	216,570
Public	216,119

**Table 5. Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2024**

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures	
Boise State U.	57,749	
Idaho State U.	17,494	
Lewis-Clark State C.	463	
U. Idaho	140,413	
Private	451	
Northwest Nazarene U.	451	
Illinois	3,831,785	
Public	1,600,251	
Chicago State U.	2,701	
Eastern Illinois U.	1,242	
Illinois State U.	34,238	
Northeastern Illinois U.	2,844	
Northern Illinois U.	34,467	
Southern Illinois U. System	79,133	
Southern Illinois U., Carbondale	61,460	
Southern Illinois U., Edwardsville	17,673	
U. Illinois System	1,441,484	
U. Illinois, Chicago	532,181	
U. Illinois, Springfield	2,552	
U. Illinois, Urbana-Champaign	906,751	
Western Illinois U.	4,142	i
Private	2,231,534	
Augustana C.	405	
Benedictine U.	461	
Bradley U.	1,066	
DePaul U.	10,522	
Elmhurst U.	526	
Erikson Institute	1,889	
Illinois C. of Optometry	1,158	
Illinois Institute of Technology	37,990	
Lake Forest C.	617	i
Loyola U., Chicago	61,454	
Midwestern U.	13,632	
National Louis U.	3,993	
National U. of Health Sciences	300	
Northwestern U.	1,257,859	
Roosevelt U.	1,418	
Rosalind Franklin U. of Medicine and Science	11,769	
Rush U.	139,295	
Toyota Technological Institute, Chicago	4,982	
U. Chicago	680,753	
Wheaton C., Wheaton	1,445	
Indiana	2,305,818	
Public	1,947,560	
Ball State U.	13,095	
Indiana State U.	1,138	
Indiana U.	988,274	
Indiana U., Bloomington	896,983	
Indiana U., East	228	
Indiana U., Kokomo	288	
Indiana U., Northwest	342	

**Table 5. Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2024**

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
Indiana U., South Bend	1,071
Indiana U., Southeast	373
Indiana U.-Purdue U., Indianapolis	88,989
Purdue U.	944,853
Purdue U., Fort Wayne	3,791
Purdue U., Northwest	9,549
Purdue U., West Lafayette	931,513
U. Southern Indiana	200
Private	358,258
Butler U.	1,313
DePauw U.	373
Earlham C.	478
Indiana Wesleyan U.	707
Manchester U.	163
Marian U., Indianapolis	7,524
Taylor U.	292
U. Evansville	205
U. Notre Dame	345,791
Valparaiso U.	918
Wabash C.	494
Iowa	1,185,565
Public (Iowa Board of Regents)	1,170,082
Iowa State U.	462,347
U. Iowa	703,326
U. Northern Iowa	4,409
Private	15,483
Coe C.	734
Cornell C.	440
Des Moines U.	3,889
Dordt U.	533
Drake U.	1,485
Grinnell C.	7,131
Luther C.	521
Palmer C. of Chiropractic	750
Palmer C. of Chiropractic, Davenport	750
Kansas	1,207,332
Public (Kansas Board of Regents)	1,207,332
Emporia State U.	577
Fort Hays State U.	774
Kansas State U.	264,961
Pittsburg State U.	2,577
U. Kansas	546,110
Wichita State U.	392,333
Kentucky	788,638
Public (Kentucky Council on Postsecondary Education)	788,005
Eastern Kentucky U.	1,435
Kentucky State U.	13,534
Morehead State U.	2,295
Murray State U.	3,630
Northern Kentucky U.	3,271
U. Kentucky	527,658

**Table 5. Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2024**

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures	
U. Louisville	224,969	
Western Kentucky U.	11,213	
Private	633	
Centre C.	280	
Transylvania U.	353	
Louisiana	1,171,551	
Public (State of Louisiana Board of Regents)	875,412	
Louisiana State U. System	544,096	
Louisiana State U., Baton Rouge	431,439	
Louisiana State U., Health Sciences Center, New Orleans	79,680	
Louisiana State U., Health Sciences Center, Shreveport	31,887	
Louisiana State U., Shreveport	1,090	
Southern U. System	14,452	
Southern U. and A&M C., Agricultural Research and Extension Center	8,969	
Southern U. and A&M C., Baton Rouge	5,483	
U. Louisiana System	316,864	
Grambling State U.	486	i
Louisiana Tech U.	31,247	
McNeese State U.	502	
Nicholls State U.	1,120	
Northwestern State U. Louisiana	798	
Southeastern Louisiana U.	5,577	
U. Louisiana, Lafayette	254,883	
U. Louisiana, Monroe	2,940	
U. New Orleans	19,311	
Private	296,139	
Dillard U.	3,317	
Loyola U., New Orleans	982	
Tulane U.	275,885	
Xavier U. Louisiana	15,955	
Maine	225,262	
Public	207,184	
U. Maine System	207,184	
U. Maine	198,870	
U. Maine Farmington	1,457	i
U. Maine, Augusta	312	
U. Southern Maine	6,545	
Private	18,078	
Bates C.	2,066	
Bowdoin C.	3,406	
Colby C.	4,513	
U. New England	8,093	
Maryland	6,567,906	
Public	2,436,918	
Morgan State U.	55,506	
St. Mary's C. Maryland	415	
U. System Maryland	1,801,355	
Bowie State U.	3,731	
Coppin State U.	304	
Salisbury U.	14,422	
Towson U.	19,215	



**Table 5. Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2024**

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures	
U. Baltimore	5,797	
U. Maryland <sup>b</sup>	1,539,520	
U. Maryland Center for Environmental Science	54,036	
U. Maryland, Baltimore County	150,908	
U. Maryland, Eastern Shore	13,422	
U.S. Naval Academy	10,592	
Uniformed Services U. of the Health Sciences	569,050	
Private	4,130,988	
Goucher C.	166	
Johns Hopkins U. <sup>c</sup>	4,129,264	
Loyola U., Maryland	1,362	
Maryland Institute C. of Art	196	
Massachusetts	5,505,495	
Public	870,086	
Massachusetts System of Public Higher Education	1,091	
Bridgewater State U.	941	
Fitchburg State U.	150	i
U. Massachusetts System	868,995	
U. Massachusetts, Amherst	281,730	
U. Massachusetts, Boston	74,625	
U. Massachusetts, Dartmouth	42,352	
U. Massachusetts, Lowell	120,672	
U. Massachusetts, Medical School	349,616	
Private	4,635,409	
Amherst C.	8,666	
Babson C.	1,783	
Bentley U.	4,639	
Boston C.	96,310	
Boston U.	784,355	
Brandeis U.	107,059	
C. of the Holy Cross	813	
Clark U.	12,707	
Emerson C.	2,111	
Franklin W. Olin C. of Engineering	1,819	
Gordon C.	317	
Harvard U.	1,494,527	
Hult International Business School	1,248	i
Massachusetts Institute of Technology	1,065,554	
MCPHS U.	468	
Merrimack C.	2,852	
MGH Institute of Health Professions	10,029	
Mount Holyoke C.	2,372	
New England C. of Optometry	3,602	
Northeastern U.	346,900	
Simmons U.	814	
Smith C.	7,375	
Stonehill C.	394	
Suffolk U.	4,890	
Tufts U.	278,304	
Wellesley C.	6,989	
Western New England U.	1,201	i

**Table 5. Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2024**

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures	
Wheaton C., Norton	445	
Williams C.	7,074	i
Woods Hole Oceanographic Institution	308,240	
Worcester Polytechnic Institute	71,552	
Michigan	3,723,303	
Public	3,613,548	
Central Michigan U.	27,429	
Eastern Michigan U.	11,202	
Ferris State U.	2,046	
Grand Valley State U.	7,041	i
Lake Superior State U.	3,876	
Michigan State U.	931,848	
Michigan Technological U.	106,919	
Northern Michigan U.	1,931	
Oakland U.	38,508	
Saginaw Valley State U.	3,552	i
U. Michigan	2,125,444	
U. Michigan, Ann Arbor	2,110,961	
U. Michigan, Dearborn	12,460	
U. Michigan, Flint	2,023	
Wayne State U.	291,689	
Western Michigan U. and Homer Stryker M.D. School of Medicine	62,063	
Private	109,755	
Andrews U.	1,751	
Calvin U.	2,490	
Hope C.	5,584	
Kalamazoo C.	866	i
Kettering U.	2,770	
Lawrence Technological U.	8,435	
U. Detroit Mercy	4,550	
Van Andel Research Institute	83,309	
Minnesota	1,472,499	
Public	1,450,273	
Minnesota State Colleges and Universities System	8,659	
Fond du Lac Tribal and Community C.	387	
Metropolitan State U.	212	i
Minnesota State U., Mankato	3,235	
Minnesota State U., Moorhead	409	i
St. Cloud State U.	4,416	
U. Minnesota	1,441,614	
U. Minnesota, Crookston	489	
U. Minnesota, Duluth	29,901	
U. Minnesota, Morris	593	
U. Minnesota, Rochester	921	
U. Minnesota, Twin Cities	1,409,710	
Private	22,226	
Augsburg U.	925	
C. of Saint Benedict	1,536	i
Carleton C.	4,993	
Concordia C., Moorhead	233	
Gustavus Adolphus C.	860	

**Table 5. Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2024**

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures	
Hamline U.	310	
Macalester C.	1,948	
Saint John's U.	1,623	i
Saint Mary's U. Minnesota	1,480	
St. Catherine U.	824	
St. Olaf C.	1,500	
U. of St. Thomas (MN)	5,994	
Mississippi	669,318	
Public (Mississippi State Institutions of Higher Learning)	665,695	
Alcorn State U.	14,844	
Delta State U.	212	
Jackson State U.	24,744	
Mississippi State U.	342,132	
Mississippi Valley State U.	161	
U. Mississippi	189,910	
U. Southern Mississippi	93,692	
Private	3,623	
Tougaloo C.	3,462	
William Carey U.	161	
Missouri	2,021,392	
Public (Missouri Department of Higher Education)	677,044	
Lincoln U., Jefferson City	9,261	i
Missouri State U.	16,103	
Northwest Missouri State U.	387	
Truman State U.	551	
U. Central Missouri	900	
U. Missouri System	649,842	
Missouri U. of Science and Technology	69,534	
U. Missouri, Columbia	508,580	
U. Missouri, Kansas City	57,030	
U. Missouri, Saint Louis	14,698	
Private	1,344,348	
A. T. Still U. of Health Sciences	401	
Graduate School of the Stowers Institute for Medical Research	1,371	
Kansas City U.	653	
Saint Louis U.	95,832	
U. of Health Sciences and Pharmacy in St. Louis	2,976	
Washington U., Saint Louis	1,243,115	
Montana	430,353	
Public (Montana U. System)	427,352	
Aaniih Nakoda C.	1,045	
Montana State U.	259,262	
Montana State U., Billings	1,135	
Montana State U., Bozeman	257,927	
Montana State U., Northern	200	
Salish Kootenai C.	647	
U. Montana	166,398	
Montana Technological U.	22,588	
U. Montana, Missoula	143,810	
Private	3,001	
Blackfeet Community C.	3,001	

**Table 5. Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2024**

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
Nebraska	726,077
Public (U. Nebraska System)	696,398
U. Nebraska, Kearney	3,796
U. Nebraska, Lincoln and Medical Center	657,468
U. Nebraska, Omaha	35,134
Private	29,679
Creighton U.	29,334
Doane U.	345
Nevada	354,063
Public (Nevada System of Higher Education)	347,157
C. Southern Nevada	190
Desert Research Institute	32,250
Nevada State U.	1,989
Truckee Meadows Community C.	548
U. Nevada, Las Vegas	118,049
U. Nevada, Reno	194,131
Private	6,906
Roseman U. of Health Sciences	6,198
Touro C. and U. System <sup>a</sup>	708
Touro U., Nevada	708
New Hampshire	650,431
Public (U. System of New Hampshire)	232,002
Keene State C.	844
Plymouth State U.	934
U. New Hampshire	230,224
Private	418,429
Dartmouth C. and Dartmouth Hitchcock Medical Center	418,429
New Jersey	1,812,868
Public	1,168,374
C. New Jersey	2,857
Kean U.	9,479
Montclair State U.	43,798
New Jersey Institute of Technology	171,741
Ramapo C. New Jersey	583
Rowan U.	63,984
Rutgers, the State U. of New Jersey	872,871
Rutgers, State U. New Jersey, Camden	9,849
Rutgers, State U. New Jersey, New Brunswick	836,800
Rutgers, State U. New Jersey, Newark	26,222
Stockton U.	2,253
William Paterson U.	808
Private	644,494
Fairleigh Dickinson U.	793
Monmouth U.	4,340
Princeton U.	558,624
Rider U.	524
Seton Hall U.	9,477
Stevens Institute of Technology	70,736
New Mexico	582,862
Public (New Mexico Higher Education Department)	582,862
Eastern New Mexico U., Portales	753

**Table 5. Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2024**

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
New Mexico Highlands U.	4,074
New Mexico Institute of Mining and Technology	79,857
New Mexico State U.	142,872
Northern New Mexico C.	432
U. New Mexico	354,874
New York	9,643,855
Public	2,015,468
CUNY System	343,398
CUNY, Advanced Science Research Center	22,464
CUNY, Baruch C.	5,977
CUNY, Brooklyn C.	15,244
CUNY, C. Staten Island	5,737
CUNY, City C.	71,684
CUNY, Graduate Center	80,831
CUNY, Graduate School of Public Health and Health Policy	28,637
CUNY, Hunter C.	45,223
CUNY, John Jay C. of Criminal Justice	21,156
CUNY, Lehman C.	6,259
CUNY, Medgar Evers C.	1,070
CUNY, New York City C. of Technology	3,033
CUNY, Queens C.	31,845
CUNY, system office	2,723
CUNY, York C.	1,515
SUNY System	1,649,778
SUNY, Binghamton U.	160,644
SUNY, Buffalo State U.	2,453
SUNY, C. Brockport	1,932
SUNY, C. Cortland	388
SUNY, C. of Environmental Science and Forestry	38,661
SUNY, C. of Optometry	3,776
SUNY, C. Plattsburgh	1,465
SUNY, Cobleskill	1,149
SUNY, Downstate Health Sciences U.	37,322
SUNY, Farmingdale State C.	658
SUNY, Geneseo	1,820
SUNY, New Paltz	459
SUNY, Old Westbury	663
SUNY, Oneonta	275
SUNY, Oswego	3,242
SUNY, Polytechnic Institute	1,234
SUNY, Potsdam	1,195
SUNY, Purchase C.	217
SUNY, Stony Brook U.	319,258
SUNY, U. Albany	471,605
SUNY, U. Buffalo	541,880
SUNY, Upstate Medical U.	59,482
U.S. Military Academy	22,292
Private	7,628,387
Adelphi U.	1,435
Albany C. of Pharmacy and Health Sciences	1,113
Albany Medical C.	23,054

**Table 5. Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2024**

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures	
Albert Einstein C. of Medicine	360,789	
Alfred U.	5,915	
Bard C.	271	
Barnard C.	6,361	
Canisius U.	521	
Clarkson U.	26,150	
Cold Spring Harbor Laboratory	126,502	i
Colgate U.	4,730	
Columbia U. in the City of New York	1,449,535	
Cooper Union	162	
Cornell U.	1,613,631	
Fordham U.	28,249	
Hamilton C.	3,664	
Hobart and William Smith Colleges	1,984	
Hofstra U.	10,425	
Icahn School of Medicine at Mount Sinai	1,015,600	
Iona U.	817	
Ithaca C.	787	
Long Island U.	18,759	
Manhattan C.	2,184	
Marist C.	308	
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	6,480	
Molloy C.	361	
New School	23,902	
New York Institute of Technology	6,559	
New York U.	1,500,732	
Niagara U.	869	
Pace U.	3,348	
Pratt Institute	1,709	i
Rensselaer Polytechnic Institute	140,247	
Rochester Institute of Technology	78,488	
Rockefeller U.	305,300	
Siena C.	755	
Skidmore C.	2,759	
St. Bonaventure U.	1,003	
St. John Fisher U.	4,190	
St. John's U., New York	4,947	
St. Lawrence U.	2,824	
Syracuse U.	198,750	
Teachers C., Columbia U.	34,096	
Touro C. and U. System <sup>a</sup>	98,719	
New York Medical C.	21,852	
Touro U., New York	76,867	
U. Rochester	492,372	
Union C., Schenectady	2,263	
Utica U.	703	
Vassar C.	3,775	
Yeshiva U.	10,290	
North Carolina	4,654,847	
Public (U. North Carolina)	2,719,664	
Appalachian State U.	11,293	

**Table 5. Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2024**

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures	
East Carolina U.	72,539	
Elizabeth City State U.	1,078	
Fayetteville State U.	3,942	
North Carolina A&T State U.	81,845	
North Carolina Central U.	16,212	
North Carolina State U.	717,004	
U. North Carolina, Asheville	5,677	
U. North Carolina, Chapel Hill	1,598,751	
U. North Carolina, Charlotte	94,895	
U. North Carolina, general administration	1,403	
U. North Carolina, Greensboro	77,370	
U. North Carolina, Wilmington	22,672	
Western Carolina U.	2,333	
Winston-Salem State U.	12,650	
Private	1,935,183	
Davidson C.	4,525	
Duke U.	1,580,756	
Elon U.	2,997	
High Point U.	1,000	i
Johnson C. Smith U.	936	
Shaw U.	452	i
Wake Forest U.	344,517	
North Dakota	400,245	
Public (North Dakota U. System)	398,445	
Dickinson State U.	284	
Mayville State U.	251	
Minot State U.	384	
North Dakota State U.	199,885	
Nueta Hidatsa Sahnish C.	213	
U. North Dakota	197,428	
Private	1,800	
United Tribes Technical C.	1,800	
Ohio	3,694,195	
Public	2,786,153	
Air Force Institute of Technology	54,204	
U. System Ohio Board of Regents	2,731,949	
Bowling Green State U.	19,615	
Central State U.	11,459	
Cleveland State U.	85,839	
Kent State U.	61,437	
Miami U.	28,566	
Northeast Ohio Medical U.	13,049	
Ohio State U.	1,581,570	
Ohio U.	67,430	
U. Akron	24,568	
U. Cincinnati	739,878	
U. Toledo	73,200	
Wright State U.	22,647	
Youngstown State U.	2,691	
Private	908,042	
Antioch U.	164	

**Table 5. Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2024**

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures	
Baldwin Wallace U.	844	
C. Wooster	1,296	
Case Western Reserve U.	642,546	
Denison U.	1,110	i
Heidelberg U.	1,876	
John Carroll U.	2,378	
Kenyon C.	1,466	
Oberlin C.	1,926	
Ohio Wesleyan U.	682	
U. Dayton	252,537	
Wittenberg U.	357	i
Xavier U.	860	
Oklahoma	797,036	
Public (Oklahoma State System of Higher Education)	764,029	
Oklahoma Agricultural and Mechanical Colleges	283,164	
Langston U.	13,340	
Oklahoma State U., Center for Health Sciences	16,054	
Oklahoma State U., Stillwater	253,770	
Oklahoma State System of Higher Education	245	
Rogers State U.	245	
Regional University System of Oklahoma	6,577	
East Central U.	662	
Northeastern State U.	908	
Southwestern Oklahoma State U.	512	
U. Central Oklahoma	4,495	
U. Oklahoma <sup>d</sup>	474,043	
U. Oklahoma <sup>d</sup>	474,043	
Private	33,007	
Oral Roberts U.	205	i
U. Tulsa	32,802	
Oregon	1,172,009	
Public	1,150,914	
Oregon Health and Science U.	545,214	
Oregon Institute of Technology	6,311	i
Oregon State U.	371,904	
Portland State U.	51,677	
Southern Oregon U.	1,023	
U. Oregon	174,785	
Private	21,095	
Lewis and Clark C.	2,924	
National U. of Natural Medicine	1,466	i
Pacific U.	8,383	
Reed C.	5,154	
U. Portland	1,698	
Willamette U.	1,470	
Pennsylvania	6,462,508	
Public	3,166,851	
Lincoln U.	695	
Pennsylvania State System of Higher Education	19,403	
Commonwealth U. of Pennsylvania	306	
East Stroudsburg U. Pennsylvania	3,916	



**Table 5. Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2024**

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures	
Indiana U. Pennsylvania	6,568	
Kutztown U. Pennsylvania	446	
Millersville U. Pennsylvania	223	
Pennsylvania Western U.	726	
Slippery Rock U. Pennsylvania	348	
West Chester U. Pennsylvania	6,870	
Pennsylvania State U.	1,320,270	
Pennsylvania State U., Abington	734	
Pennsylvania State U., Altoona	1,572	
Pennsylvania State U., Behrend	7,054	
Pennsylvania State U., Berks	1,187	
Pennsylvania State U., Great Valley School of Graduate Professional Studies	716	
Pennsylvania State U., Harrisburg	5,735	
Pennsylvania State U., University Park and Hershey Medical Center	1,302,971	
Pennsylvania State U., Wilkes-Barre	301	
Temple U.	314,999	
U. Pittsburgh	1,504,665	
U. Pittsburgh, Pittsburgh	1,504,665	
U.S. Army War C.	6,819	i
Private	3,295,657	
Allegheny C.	720	
American C. of Financial Services	392	
Arcadia U.	1,692	
Bryn Athyn C.	396	i
Bryn Mawr C.	6,302	
Bucknell U.	6,193	
Carnegie Mellon U.	505,262	
Dickinson C.	1,743	
Drexel U.	170,205	
Duquesne U.	18,348	
Franklin and Marshall C.	4,815	
Gannon U.	829	
Geisinger Commonwealth School of Medicine	886	
Gettysburg C.	1,154	
Haverford C.	4,103	
Juniata C.	1,155	
La Salle U.	1,147	i
Lafayette C.	2,684	
Lake Erie C. of Osteopathic Medicine	1,019	
Lehigh U.	62,406	
Moravian U.	486	
Muhlenberg C.	414	
Philadelphia C. of Osteopathic Medicine	7,611	
Robert Morris U.	1,412	
Saint Francis U.	637	i
Saint Joseph's U.	10,451	
Salus U.	540	
Susquehanna U.	700	
Swarthmore C.	6,067	
Thomas Jefferson U.	271,198	
U. Pennsylvania	2,167,504	

**Table 5. Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2024**

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures	
U. Scranton	1,435	
Ursinus C.	1,015	
Villanova U.	33,090	
Widener U., Chester	752	
Wilkes U.	894	
Rhode Island	534,147	
Public	143,631	
Naval War C.	5,868	
Rhode Island Board of Governors for Higher Education	137,763	
Rhode Island C.	301	
U. Rhode Island	137,462	
Private	390,516	
Brown U.	374,504	
Bryant U.	459	
Johnson and Wales U., Providence	150	i
Providence C.	5,924	
Rhode Island School of Design	5,130	
Roger Williams U.	3,679	
Salve Regina U.	670	
South Carolina	991,440	
Public	977,843	
C. Charleston	8,662	
Citadel Military C. South Carolina	4,969	
Clemson U.	338,533	
Coastal Carolina U.	5,094	
Francis Marion U.	754	
Medical U. South Carolina	320,990	
South Carolina State U.	12,496	
U. South Carolina	282,879	
U. South Carolina Upstate	2,764	
U. South Carolina, Aiken	1,609	
U. South Carolina, Beaufort	1,177	
U. South Carolina, Columbia	277,329	
Winthrop U.	3,466	
Private	13,597	
Benedict C.	7,788	
Claflin U.	1,816	
Coker U.	391	
Converse U.	371	
Furman U.	3,231	
South Dakota	144,005	
Public	143,174	
Oglala Lakota C.	594	
South Dakota Board of Regents	142,580	
Black Hills State U.	2,646	
Dakota State U.	5,652	
Northern State U.	187	
South Dakota School of Mines and Technology	23,941	
South Dakota State U.	82,246	
U. South Dakota	27,908	
Private	831	

**Table 5. Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2024**

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures	
Augustana U.	831	i
Tennessee	2,121,333	
Public	760,684	
Tennessee Board of Regents System	236,610	
Austin Peay State U.	5,070	
East Tennessee State U.	42,526	
Middle Tennessee State U.	8,736	
Tennessee State U.	35,017	
Tennessee Technological U.	36,399	
U. Memphis	108,862	
U. Tennessee System	524,074	
U. Tennessee, Chattanooga	12,104	
U. Tennessee, Health Science Center	124,771	
U. Tennessee, Knoxville	386,949	
U. Tennessee, Martin	250	
Private	1,360,649	
Fisk U.	3,425	
Lincoln Memorial U.	1,756	
Lipscomb U.	2,011	
Meharry Medical C.	23,691	i
Sewanee: U. of the South	771	
Southern C. of Optometry	1,125	
Vanderbilt U. and Vanderbilt U. Medical Center	1,327,870	
Texas	9,149,754	
Public	7,745,405	
Texas A&M U. System	1,569,938	
Prairie View A&M U.	31,632	
Tarleton State U.	24,875	
Texas A&M International U.	8,378	
Texas A&M U., College Station and Health Science Center	1,393,825	
Texas A&M U.-Central Texas	1,726	
Texas A&M U.-Commerce	6,811	
Texas A&M U.-Corpus Christi	52,175	
Texas A&M U.-Kingsville	31,751	
Texas A&M U.-San Antonio	7,149	
West Texas A&M U.	11,616	
Texas Southern U.	19,045	
Texas State U. System	196,633	
Lamar U.	8,324	
Sam Houston State U.	16,716	
Sul Ross State U.	6,546	
Texas State U.	165,047	
Texas Tech U. System	327,672	
Angelo State U.	903	
Midwestern State U.	1,261	
Texas Tech U.	256,919	
Texas Tech U., Health Sciences Center	52,986	
Texas Tech U., Health Sciences Center, El Paso	15,603	
Texas Woman's U.	8,998	
U. Houston System	245,626	
U. Houston	238,996	

**Table 5. Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2024**

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures	
U. Houston-Clear Lake	3,080	
U. Houston-Downtown	3,049	
U. Houston-Victoria	501	
U. North Texas System	235,629	
U. North Texas, Dallas	911	
U. North Texas, Denton	124,219	
U. North Texas, Health Science Center	110,499	
U. Texas System	5,141,864	
Stephen F. Austin State U.	4,502	
U. Texas Health Science Center, Houston	419,123	
U. Texas Health Science Center, San Antonio	312,791	
U. Texas Health Science Center, Tyler	26,240	
U. Texas M. D. Anderson Cancer Center	1,363,321	
U. Texas Medical Branch	241,072	
U. Texas of the Permian Basin	2,682	
U. Texas Rio Grande Valley	90,610	
U. Texas Southwestern Medical Center	869,297	
U. Texas, Arlington	153,780	
U. Texas, Austin	1,143,917	
U. Texas, Dallas	181,795	
U. Texas, El Paso	157,574	
U. Texas, San Antonio	171,528	
U. Texas, Tyler	3,632	
Private	1,404,349	
Abilene Christian U.	7,868	
Austin C.	344	
Baylor C. of Medicine	881,226	
Baylor U.	134,876	
Jarvis Christian U.	150	i
LeTourneau U.	198	
Rice U.	277,683	
Southern Methodist U.	62,553	
Southwestern U.	804	
St. Edward's U.	1,570	
Texas Christian U.	27,659	
Trinity U.	5,838	
U. of the Incarnate Word	3,580	
Utah	1,404,337	
Public (Utah System of Higher Education)	1,246,018	
Southern Utah U.	1,897	
U. Utah	789,271	
Utah State U.	451,379	
Utah Valley U.	2,254	
Weber State U.	1,217	
Private	158,319	
Brigham Young U., Provo	158,319	
Vermont	252,481	
Public	246,240	
U. Vermont	246,240	
Private	6,241	
Middlebury C.	3,576	

**Table 5. Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2024**

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures	
Norwich U.	1,875	
Saint Michael's C.	790	
Virginia	2,555,884	
Public	2,527,970	
Christopher Newport U.	3,764	
Eastern Virginia Medical School	27,891	
George Mason U.	281,697	
James Madison U.	21,394	
Longwood U.	256	
Norfolk State U.	7,309	
Old Dominion U.	76,202	
Radford U.	1,291	
U. of Mary Washington	1,333	
U. Virginia's C. Wise	1,464	
U. Virginia, Charlottesville	813,772	
Virginia Commonwealth U.	524,295	
Virginia Military Institute	2,506	
Virginia Polytechnic Institute and State U.	656,916	
Virginia State U.	13,271	
William & Mary	94,609	
Private	27,914	
Eastern Mennonite U.	187	
Edward Via C. of Osteopathic Medicine	8,132	
Hampton U.	10,660	
Liberty U.	1,597	
Marymount U.	2,749	
Roanoke C.	1,173	
U. Lynchburg	196	i
U. Richmond	2,961	
Washington and Lee U.	259	
Washington	2,159,181	
Public	2,144,645	
Central Washington U.	2,757	
Eastern Washington U.	2,957	
Evergreen State C.	704	
Northwest Indian C.	6,988	i
U. Washington	1,704,595	
U. Washington, Bothell	5,320	
U. Washington, Seattle	1,691,302	
U. Washington, Tacoma	7,973	
Washington State U.	403,369	
Western Washington U.	23,275	
Private	14,536	
Gonzaga U.	1,022	
Pacific Lutheran U.	429	
Pacific Northwest U. of Health Sciences	262	
Seattle Pacific U.	2,414	
Seattle U.	4,699	
U. Puget Sound	1,248	
Whitman C.	3,891	
Whitworth U.	571	

**Table 5. Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2024**

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures	
West Virginia	310,021	
Public (West Virginia Higher Education Policy Commission)	310,021	
Bluefield State U.	1,258	
Concord U.	1,178	
Fairmont State U.	610	
Marshall U.	39,178	
West Liberty U.	871	
West Virginia School of Osteopathic Medicine	1,491	
West Virginia State U.	6,059	
West Virginia U.	259,072	
West Virginia U., Institute of Technology	304	
Wisconsin	2,447,906	
Public (U. Wisconsin System)	2,031,313	
U. Wisconsin-Eau Claire	3,730	
U. Wisconsin-Green Bay	2,637	
U. Wisconsin-La Crosse	3,068	
U. Wisconsin-Madison	1,933,229	
U. Wisconsin-Milwaukee	66,270	
U. Wisconsin-Oshkosh	3,443	
U. Wisconsin-Platteville	1,674	i
U. Wisconsin-River Falls	2,847	
U. Wisconsin-Stevens Point	4,691	
U. Wisconsin-Stout	906	
U. Wisconsin-Superior	8,355	
U. Wisconsin-Whitewater	463	
Private	416,593	
Alverno C.	796	
Carthage C.	188	
Concordia U., Wisconsin	169	
Lawrence U.	803	
Marquette U.	49,099	
Medical C. Wisconsin	360,309	
Milwaukee School of Engineering	3,090	
Northland C.	1,582	i
St. Norbert C.	557	
Wyoming	167,721	
Public (Wyoming Department of Education)	167,721	
Central Wyoming C.	415	
U. Wyoming	167,306	
American Samoa	1,195	
Public	1,195	
American Samoa Community C.	1,195	
Guam	25,306	
Public (U. Guam Board of Regents)	25,306	
U. Guam	25,306	
Puerto Rico	135,832	
Public (U. Puerto Rico)	127,477	
U. Puerto Rico, Aguadilla	512	
U. Puerto Rico, Arecibo	418	
U. Puerto Rico, Cayey	2,173	
U. Puerto Rico, Humacao	1,932	

**Table 5. Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2024**

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
U. Puerto Rico, Mayaguez	26,455
U. Puerto Rico, Medical Sciences Campus	61,453
U. Puerto Rico, Ponce	875
U. Puerto Rico, Rio Piedras	33,659
Private	8,355
Albizu U.	403
Ana G. Mendez U. System	2,290
U. Ana G. Mendez, Carolina	407
U. Ana G. Mendez, Cupey	223
U. Ana G. Mendez, Gurabo	1,660
Polytechnic U. Puerto Rico	796
Pontifical Catholic U. Puerto Rico, Ponce	308
San Juan Bautista School of Medicine	778
U. Central del Caribe	3,780
Virgin Islands	14,762
Public	14,762
U. of the Virgin Islands	14,762

i = imputed.

<sup>a</sup> The Touro College and University System is a private higher education institution with campuses in the states of California, Nevada, and New York. FY 2024 research expenditures across all campuses total \$101,783 thousand.

<sup>b</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>c</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$2,549,821 thousand in total R&D expenditures in FY 2024.

<sup>d</sup> The University of Oklahoma includes expenditures from the University of Oklahoma, Tulsa and University of Oklahoma, Norman and Health Science Center campuses. Due to a reorganization, the campuses began reporting as one unit in FY 2024.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2024.

Table 6. Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2024 total R&D expenditures: FYs 2021–24

Institution	Rank	Total				Federally financed			
		2021	2022	2023	2024	2021	2022	2023	2024
All institutions	-	89,846,088	97,843,969	108,858,340	117,718,608	49,195,581	54,055,759	59,683,434	64,717,632
Johns Hopkins U. <sup>a</sup>	1	3,181,385	3,420,312	3,801,585	4,129,264	2,774,643	2,971,816	3,324,551	3,618,064
U. Pennsylvania	2	1,631,950	1,791,311	1,953,617	2,167,504	792,089	873,318	936,469	1,018,602
U. California, San Francisco	3	1,710,036	1,805,950	2,046,539	2,127,637	683,179	780,318	858,066	1,036,633
U. Michigan, Ann Arbor	4	1,639,645	1,770,708	1,925,875	2,110,961	891,125	970,636	1,041,430	1,165,494
U. Wisconsin-Madison	5	1,380,075	1,523,513	1,731,949	1,933,229	646,764	740,854	816,814	930,647
U. California, Los Angeles	6	1,454,880	1,536,197	1,721,665	1,896,227	721,043	848,138	878,571	980,183
U. California, San Diego	7	1,425,499	1,533,357	1,705,410	1,881,289	801,117	970,696	1,083,790	1,151,518
U. Washington, Seattle	8	1,488,645	1,559,708	1,734,091	1,691,302	1,046,377	1,083,090	1,188,836	1,135,734
Stanford U.	9	1,274,483	1,384,555	1,537,846	1,641,961	811,183	860,125	943,669	1,012,767
Cornell U.	10	1,183,524	1,300,357	1,451,971	1,613,631	592,359	636,481	705,132	792,078
U. North Carolina, Chapel Hill	11	1,205,883	1,361,028	1,549,617	1,598,751	747,895	827,158	907,710	949,913
Ohio State U.	12	1,236,111	1,363,388	1,449,188	1,581,570	559,797	636,902	694,647	774,210
Duke U.	13	1,237,686	1,390,538	1,507,996	1,580,756	776,632	901,807	974,202	1,039,631
U. Maryland <sup>b</sup>	14	1,142,264	1,228,550	1,385,302	1,539,520	713,283	750,447	825,546	922,237
Georgia Institute of Technology	15	1,114,481	1,231,485	1,405,080	1,528,637	852,319	940,488	1,083,903	1,213,430
Yale U.	16	1,165,148	1,191,201	1,326,807	1,519,694	647,656	689,270	741,198	845,058
U. Pittsburgh, Pittsburgh	17	1,135,416	1,251,998	1,398,078	1,504,665	724,993	814,647	916,735	967,978
New York U.	18	1,063,704	1,276,038	1,457,424	1,500,732	547,027	668,381	787,204	805,148
Harvard U.	19	1,254,008	1,308,458	1,435,218	1,494,527	616,589	628,683	639,953	672,947
Columbia U. in the City of New York	20	1,098,570	1,230,924	1,341,952	1,449,535	831,648	904,346	988,670	1,076,805
U. Minnesota, Twin Cities	21	1,072,961	1,202,084	1,320,183	1,409,710	570,946	652,384	702,483	748,229
Texas A&M U., College Station and Health Science Center	22	1,147,720	1,152,666	1,277,814	1,393,825	528,057	505,355	546,481	582,674
U. Texas M. D. Anderson Cancer Center	23	1,124,971	1,182,536	1,255,190	1,363,321	217,073	225,659	259,285	282,431
Vanderbilt U. and Vanderbilt U. Medical Center	24	1,019,273	1,086,223	1,253,156	1,327,870	586,880	666,282	751,019	809,693
Pennsylvania State U., University Park and Hershey Medical Center	25	970,544	1,019,940	1,206,793	1,302,971	622,532	681,159	781,303	858,666
U. Florida	26	959,965	1,085,834	1,250,201	1,272,493	423,154	467,739	529,391	581,252
U. Southern California	27	955,565	1,039,905	1,154,804	1,264,197	574,185	601,747	683,819	739,426
Northwestern U.	28	913,178	1,000,695	1,114,269	1,257,859	572,975	618,771	678,062	735,735
Emory U.	29	852,922	958,281	1,094,328	1,246,507	515,940	568,149	664,370	744,597
Washington U., Saint Louis	30	989,214	1,047,098	1,168,861	1,243,115	606,127	681,353	758,464	821,852
U. Texas, Austin	31	779,348	845,896	1,035,838	1,143,917	489,827	536,296	621,223	690,835
U. California, Berkeley	32	846,872	981,035	1,076,754	1,126,782	354,478	468,542	496,298	518,011
Massachusetts Institute of Technology	33	949,076	989,166	1,000,081	1,065,554	483,526	531,056	559,766	595,053
Icahn School of Medicine at Mount Sinai	34	820,260	893,968	972,476	1,015,600	554,582	610,646	658,916	693,444
U. Arizona	35	770,031	824,340	955,424	1,012,404	353,117	374,936	434,700	471,394
U. California, Davis	36	817,409	883,807	962,399	1,005,757	373,719	468,468	494,847	505,442



Table 6. Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2024 total R&D expenditures: FYs 2021–24

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2021	2022	2023	2024	2021	2022	2023	2024
Arizona State U.	37	677,303	797,224	903,779	1,003,271	274,541	309,094	340,880	396,431
Michigan State U.	38	710,178	759,229	844,076	931,848	349,889	381,504	435,564	474,762
Purdue U., West Lafayette	39	679,482	754,627	844,570	931,513	295,278	352,890	385,738	451,802
U. Illinois, Urbana-Champaign	40	731,268	765,909	821,023	906,751	406,612	420,953	460,491	511,574
Indiana U., Bloomington	41	695,258	751,309	853,056	896,983	326,326	360,300	432,223	456,845
Baylor C. of Medicine	42	716,976	827,005	847,305	881,226	365,472	420,054	440,345	453,738
U. Texas Southwestern Medical Center	43	632,134	719,002	800,391	869,297	257,611	298,154	336,126	359,693
U. Alabama, Birmingham	44	644,330	713,480	780,479	865,868	423,290	421,223	451,880	498,148
Rutgers, State U. New Jersey, New Brunswick	45	643,955	712,231	831,719	836,800	339,015	351,660	400,930	408,320
U. Virginia, Charlottesville	46	611,313	662,658	714,457	813,772	297,273	332,993	354,748	394,731
U. Utah	47	624,737	670,119	723,713	789,271	340,434	367,040	416,079	453,025
Boston U.	48	652,096	725,402	773,200	784,355	402,443	413,102	409,551	421,753
U. Colorado Anschutz Medical Campus	49	562,855	611,358	686,026	741,643	363,999	429,949	474,523	498,397
U. Cincinnati	50	551,826	615,070	698,642	739,878	309,097	350,392	391,943	411,205
U. Colorado Boulder	51	547,724	611,380	651,924	717,920	459,816	507,892	538,715	567,693
North Carolina State U.	52	547,118	583,203	633,251	717,004	239,115	250,582	279,179	316,076
U. Iowa	53	553,876	594,215	662,134	703,326	283,763	314,346	331,824	338,639
U. Chicago	54	497,651	591,805	628,302	680,753	394,275	456,806	476,689	504,337
U. Nebraska, Lincoln and Medical Center <sup>c</sup>	55	na	na	617,372	657,468	na	na	280,120	301,070
Virginia Polytechnic Institute and State U.	56	542,045	591,861	598,113	656,916	216,733	240,305	282,152	308,282
U. California, Irvine	57	523,752	534,947	609,614	644,948	255,010	291,393	335,393	384,504
Case Western Reserve U.	58	421,868	467,389	553,740	642,546	340,438	380,423	431,736	466,362
U. Georgia	59	493,944	545,631	570,956	628,117	188,451	220,343	221,804	255,117
Uniformed Services U. of the Health Sciences	60	384,490	277,240	496,441	569,050	275,573	194,187	403,671	482,223
U. Miami	61	375,841	439,300	509,951	559,013	231,001	265,212	291,783	322,331
Princeton U.	62	404,448	461,185	513,365	558,624	205,000	218,390	219,600	250,294
U. Kansas	63	385,637	405,267	466,222	546,110	187,249	200,117	211,111	245,710
Oregon Health and Science U.	64	452,812	479,226	517,742	545,214	329,016	346,724	374,043	389,585
SUNY, U. Buffalo	65	425,349	439,709	471,569	541,880	210,257	218,231	257,857	284,562
U. Illinois, Chicago	66	429,585	440,573	492,936	532,181	237,949	251,328	274,424	299,986
U. Kentucky	67	429,241	476,517	504,005	527,658	220,703	253,852	265,543	273,724
Virginia Commonwealth U.	68	364,096	411,729	465,976	524,295	160,995	169,450	184,852	208,743
U. South Florida	69	385,965	405,166	461,390	521,892	185,364	206,552	242,224	272,483
U. Missouri, Columbia	70	388,779	432,310	462,435	508,580	163,576	182,432	217,091	241,938
Carnegie Mellon U.	71	402,376	449,707	484,757	505,262	234,993	259,160	279,954	280,169
Scripps Research Institute	72	485,435	492,639	494,946	501,468	272,181	242,135	278,099	272,039
U. Rochester	73	409,255	450,805	481,227	492,372	309,647	334,503	368,190	376,088

Table 6. Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2024 total R&D expenditures: FYs 2021–24

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2021	2022	2023	2024	2021	2022	2023	2024
U. Oklahoma <sup>d</sup>	74	380,048	408,656	436,964	474,043	193,639	210,994	219,964	225,360
SUNY, U. Albany	75	114,501	129,796	141,671	471,605	56,425	51,492	62,935	104,769
Colorado State U., Fort Collins	76	447,197	456,911	498,073	466,386	303,901	316,727	354,401	300,857
U. Delaware	77	231,532	368,107	428,128	465,780	157,725	194,775	202,469	229,392
Iowa State U.	78	360,275	393,184	420,823	462,347	169,177	187,156	195,394	216,003
Florida State U.	79	328,604	355,986	414,463	460,733	150,108	163,744	195,323	204,544
Utah State U.	80	325,223	344,851	401,437	451,379	264,575	280,866	322,336	364,880
California Institute of Technology	81	438,624	478,142	490,672	445,173	293,197	326,401	310,519	298,754
U. Connecticut	82	302,329	367,557	390,165	433,545	183,362	230,752	238,701	253,110
Louisiana State U., Baton Rouge	83	296,673	344,556	384,268	431,439	103,178	111,886	127,243	142,226
U. Texas Health Science Center, Houston	84	308,823	342,633	374,105	419,123	165,139	184,205	197,759	227,118
Dartmouth C. and Dartmouth Hitchcock Medical Center	85	330,226	344,126	366,856	418,429	152,335	155,445	168,740	185,769
Washington State U.	86	357,648	368,396	378,744	403,369	179,536	187,580	207,086	221,721
Auburn U., Auburn	87	266,374	304,439	349,273	393,557	91,157	104,883	125,783	157,999
Wichita State U.	88	192,042	261,519	366,848	392,333	77,427	93,367	142,371	182,881
U. Tennessee, Knoxville	89	316,273	324,435	338,847	386,949	135,202	149,260	153,637	180,010
George Washington U.	90	266,108	275,483	360,260	381,582	161,349	161,867	162,892	179,220
Georgetown U.	91	279,932	313,220	337,006	376,600	130,419	127,213	127,370	145,787
U. Hawaii, Manoa	92	271,768	277,323	313,143	375,631	157,772	169,762	192,205	237,482
Brown U.	93	276,331	310,780	353,591	374,504	198,574	215,067	239,744	253,661
Oregon State U.	94	276,955	297,934	337,985	371,904	179,180	192,621	222,169	244,264
Albert Einstein C. of Medicine	95	301,715	318,314	336,238	360,789	214,619	220,780	230,151	242,594
Medical C. Wisconsin	96	276,850	309,244	346,691	360,309	136,385	152,301	155,403	150,035
U. New Mexico	97	332,566	331,164	316,026	354,874	242,212	232,774	205,351	221,867
U. Massachusetts, Medical School	98	347,337	358,204	326,731	349,616	248,873	258,147	223,490	231,375
Northeastern U.	99	211,342	231,607	288,558	346,900	143,421	150,093	186,013	218,650
U. Notre Dame	100	240,324	280,604	331,943	345,791	109,891	124,411	147,985	144,327
Wake Forest U.	101	264,216	269,109	308,972	344,517	188,887	180,754	204,713	224,282
Mississippi State U.	102	275,143	303,418	319,684	342,132	116,713	138,207	150,804	161,636
Clemson U.	103	237,485	263,158	286,503	338,533	89,883	119,512	129,955	161,658
Florida International U.	104	246,075	281,665	306,434	325,785	105,309	129,683	156,381	165,202
Medical U. South Carolina	105	277,761	284,553	333,826	320,990	162,394	163,395	168,957	173,379
SUNY, Stony Brook U.	106	274,516	312,698	324,531	319,258	162,972	184,154	192,448	186,497
Temple U.	107	299,778	301,395	292,029	314,999	153,316	143,580	154,516	159,138
U. Texas Health Science Center, San Antonio	108	219,734	238,510	281,078	312,791	106,824	119,071	143,730	165,935
Woods Hole Oceanographic Institution	109	262,048	255,017	287,825	308,240	222,351	211,550	238,554	250,140
Rockefeller U.	110	357,543	360,877	385,168	305,300	96,318	94,693	101,422	110,292

Table 6. Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2024 total R&D expenditures: FYs 2021–24

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2021	2022	2023	2024	2021	2022	2023	2024
U. California, Santa Barbara	111	248,961	278,897	305,483	303,446	122,168	161,241	179,896	171,188
Wayne State U.	112	235,519	242,247	250,911	291,689	117,976	126,814	128,521	151,878
U. Central Florida	113	218,596	221,488	247,259	284,943	109,310	110,131	124,256	135,779
U. Massachusetts, Amherst	114	213,824	245,158	268,657	281,730	116,349	129,044	138,849	146,876
George Mason U.	115	214,207	230,068	252,239	281,697	103,712	119,406	125,437	147,327
Tufts U.	116	224,956	231,224	247,276	278,304	166,809	150,081	154,458	169,588
Rice U.	117	207,404	216,202	255,115	277,683	95,648	105,345	119,853	127,615
U. South Carolina, Columbia	118	215,374	229,162	262,207	277,329	88,529	106,752	124,330	144,878
Tulane U.	119	205,206	222,605	258,439	275,885	113,819	127,544	152,468	159,185
Thomas Jefferson U.	120	200,393	246,212	258,345	271,198	109,448	114,452	110,366	113,022
Kansas State U.	121	203,846	212,974	217,992	264,961	77,779	81,820	82,610	83,225
West Virginia U.	122	199,907	214,081	246,173	259,072	89,802	97,327	114,708	129,896
Montana State U., Bozeman	123	193,577	200,820	229,682	257,927	113,257	118,974	142,965	158,999
Texas Tech U.	124	197,739	226,729	240,107	256,919	33,938	45,136	58,922	62,892
U. Louisiana, Lafayette	125	181,400	205,201	225,924	254,883	65,436	77,110	84,898	94,237
Oklahoma State U., Stillwater	126	198,799	195,041	226,498	253,770	47,428	53,885	64,098	76,701
U. Dayton	127	191,228	211,494	228,723	252,537	181,445	203,206	216,729	241,753
U. Alaska, Fairbanks	128	172,957	202,516	218,041	246,295	128,229	154,742	156,702	168,918
U. Vermont	129	195,320	216,307	233,806	246,240	103,554	117,163	128,645	138,601
Georgia State U.	130	206,472	215,908	237,493	241,115	79,834	81,641	91,331	96,654
U. Texas Medical Branch	131	185,759	204,518	233,192	241,072	117,915	123,467	150,272	161,678
U. Houston	132	202,536	240,126	231,942	238,996	77,489	84,295	99,450	103,963
U. California, Riverside	133	189,600	199,135	214,802	231,596	97,182	114,257	120,524	126,339
U. Arkansas, Fayetteville	134	164,443	184,080	221,525	230,626	48,534	64,252	82,164	95,784
U. New Hampshire	135	167,373	206,392	223,683	230,224	99,323	129,721	152,377	151,886
U. Arkansas for Medical Sciences	136	194,709	205,493	209,409	226,842	83,387	95,080	94,483	102,854
U. Louisville	137	200,362	229,582	220,568	224,969	97,179	117,363	100,890	89,978
U. Alabama, Tuscaloosa	138	129,509	163,204	184,880	221,235	53,880	67,986	86,244	112,199
U. California, Santa Cruz	139	160,615	176,760	203,883	218,426	86,263	107,082	112,847	117,064
North Dakota State U.	140	164,050	174,904	190,330	199,885	42,824	45,343	53,339	57,705
U. Maine	141	146,801	171,931	188,690	198,870	65,249	84,072	92,870	101,733
Syracuse U.	142	151,717	157,407	183,850	198,750	34,200	33,976	46,595	55,174
U. North Dakota	143	143,506	147,717	182,195	197,428	58,463	62,737	65,890	83,377
U. Nevada, Reno	144	175,386	181,782	188,505	194,131	77,246	83,631	83,603	89,152
U. Mississippi	145	116,175	152,903	172,176	189,910	76,886	84,270	85,186	102,574
U. Texas, Dallas	146	122,825	130,914	146,779	181,795	58,249	60,706	66,127	82,438
San Diego State U.	147	107,681	129,762	158,013	181,600	43,473	55,671	68,045	74,414

Table 6. Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2024 total R&D expenditures: FYs 2021–24

(Dollars in thousands)

Institution	Rank	Total				Federally financed				
		2021	2022	2023	2024	2021	2022	2023	2024	
U. Oregon	148	139,193	160,500	164,500	174,785	82,242	97,238	100,265	105,290	
New Jersey Institute of Technology	149	166,587	167,135	161,078	171,741	77,057	71,326	70,080	90,947	
U. Texas, San Antonio	150	145,362	147,629	158,453	171,528	42,952	54,384	58,171	60,101	
Drexel U.	151	152,752	151,903	169,583	170,205	93,517	99,399	108,724	109,643	
U. Wyoming	152	93,202	139,764	150,124	167,306	54,444	68,772	68,467	73,731	
Augusta U.	153	116,480	127,313	139,121	166,219	61,943	64,609	64,410	73,564	
Texas State U.	154	72,510	110,102	141,291	165,047	31,116	38,936	44,297	48,686	
SUNY, Binghamton U.	155	124,565	130,882	141,685	160,644	23,225	24,888	31,601	31,348	
Brigham Young U., Provo	156	43,916	45,610	137,748	158,319	30,439	31,636	31,216	31,324	
U. Texas, El Paso	157	109,410	130,501	145,724	157,574	43,930	60,387	70,873	74,836	
U. Alabama, Huntsville	158	149,792	169,532	163,428	154,494	116,971	132,060	126,040	115,434	
U. Texas, Arlington	159	126,477	133,770	147,265	153,780	46,946	56,025	56,337	62,500	
U. Maryland, Baltimore County	160	84,418	110,319	144,262	150,908	59,882	65,368	86,573	91,886	
U. Montana, Missoula	161	121,571	125,603	133,958	143,810	70,686	73,507	75,490	88,952	
New Mexico State U.	162	110,580	121,472	126,337	142,872	64,699	71,718	71,764	84,715	
U. Idaho	163	105,895	115,603	135,901	140,413	51,021	56,160	61,531	61,960	
Rensselaer Polytechnic Institute	164	119,056	121,809	121,706	140,247	52,465	50,605	56,445	61,359	
Rush U.	165	107,398	114,874	132,394	139,295	73,279	79,647	93,180	102,320	
U. Rhode Island	166	129,296	129,102	144,013	137,462	78,923	93,190	102,056	111,503	
Baylor U.	167	48,809	66,014	82,074	134,876	11,025	15,856	17,147	22,685	
Cold Spring Harbor Laboratory	168	114,903	118,034	117,483	126,502	i 56,907	59,163	54,123	58,273	i
U. Tennessee, Health Science Center	169	109,562	115,161	130,472	124,771	56,021	60,221	70,676	64,800	
U. North Texas, Denton	170	81,252	93,538	106,665	124,219	18,702	23,056	30,017	43,136	
U. Massachusetts, Lowell	171	94,708	111,144	117,336	120,672	48,179	62,195	61,413	59,711	
U. Nevada, Las Vegas	172	101,009	94,967	98,751	118,049	27,178	28,867	38,815	46,258	
U. North Texas, Health Science Center	173	50,698	72,675	i 94,652	110,499	32,464	55,062	i 77,660	90,722	
Colorado School of Mines	174	81,443	98,404	104,297	109,905	61,421	66,200	68,795	71,415	
U. Memphis	175	67,092	71,271	100,042	108,862	21,578	24,686	26,913	34,728	
Brandeis U.	176	95,001	102,378	103,653	107,059	43,471	44,205	46,654	48,548	
Michigan Technological U.	177	81,715	91,084	103,819	106,919	41,505	48,766	52,102	55,980	
Howard U.	178	52,412	67,594	84,756	101,815	35,443	37,331	47,662	55,361	
Boston C.	179	65,156	68,958	81,425	96,310	34,257	36,560	39,356	47,731	
Saint Louis U.	180	79,005	82,740	85,921	95,832	41,411	42,170	44,157	43,867	
U. North Carolina, Charlotte	181	51,877	43,126	92,027	94,895	27,145	26,871	33,784	36,444	
William & Mary	182	68,801	75,953	81,815	94,609	29,928	33,730	32,631	41,488	
Northern Arizona U.	183	69,129	66,729	77,533	93,749	41,744	43,453	50,491	62,399	
U. Southern Mississippi	184	67,417	72,477	75,034	93,692	44,401	48,368	48,374	53,044	

Table 6. Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2024 total R&D expenditures: FYs 2021–24

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2021	2022	2023	2024	2021	2022	2023	2024
U. Texas Rio Grande Valley	185	58,187	64,401	82,444	90,610	13,018	18,317	25,068	35,014
Indiana U.-Purdue U., Indianapolis	186	65,330	64,162	87,648	88,989	30,290	29,353	39,869	41,004
San Jose State U.	187	60,100	71,695	83,406	88,125	30,877	30,984	31,780	37,503
Florida Atlantic U.	188	58,471	61,748	77,593	87,906	28,510	28,641	35,108	35,414
Cleveland State U.	189	71,451	81,225	87,941	85,839	47,402	53,395	56,550	53,415
Van Andel Research Institute	190	65,789	78,626	80,748	83,309	22,231	29,424	30,934	31,791
South Dakota State U.	191	51,542	59,590	71,340	82,246	18,607	22,991	28,897	36,703
North Carolina A&T State U.	192	40,751	47,908	62,307	81,845	25,755	29,094	37,152	44,751
CUNY, Graduate Center	193	4,265	5,509	54,089	80,831	2,496	2,535	2,792	3,157
New Mexico Institute of Mining and Technology	194	28,745	89,900	118,735	79,857	24,900	72,594	100,873	57,649
Louisiana State U., Health Sciences Center, New Orleans	195	44,370	53,995	68,707	79,680	34,272	33,087	35,933	35,394
U. California, Office of the President	196	50,848	54,640	63,629	79,293	653	158	25	0
Rochester Institute of Technology	197	56,043	62,383	72,405	78,488	31,187	33,373	37,334	44,203
American U.	198	65,912	67,616	76,041	78,356	12,076	14,752	17,462	21,538
U. North Carolina, Greensboro	199	37,033	41,303	60,621	77,370	24,423	29,822	39,139	44,726
U. California, Merced	200	45,964	48,147	62,279	77,233	18,621	23,421	28,576	39,951
Touro U., New York <sup>e</sup>	201	419	576	100,547	76,867	77	19	40,008	35,150
Old Dominion U.	202	62,332	64,877	71,334	76,202	25,514	27,804	31,104	32,045
U. Massachusetts, Boston	203	63,723	65,215	70,978	74,625	23,673	23,131	27,098	28,676
Naval Postgraduate School	204	65,101	64,055	77,364	73,230	54,855	44,852	62,715	62,115
U. Toledo	205	53,169	64,654	67,656	73,200	32,601	36,694	37,872	41,525
East Carolina U.	206	51,662	55,693	67,082	72,539	22,813	29,648	30,851	30,338
CUNY, City C.	207	57,361	65,569	63,159	71,684	34,218	38,596	38,669	38,727
Worcester Polytechnic Institute	208	48,702	56,904	66,353	71,552	30,166	34,004	37,736	40,768
Stevens Institute of Technology	209	43,386	53,563	60,685	70,736	33,998	41,836	44,036	59,605
U. South Alabama	210	47,610	43,491	53,182	70,084	23,758	23,762	28,637	32,361
Missouri U. of Science and Technology	211	54,437	53,357	61,496	69,534	26,164	28,792	32,457	38,058
Morehouse School of Medicine	212	32,637	42,489	57,125	68,746	25,181	31,339	41,069	42,379
Florida A&M U.	213	47,124	50,636	65,159	68,674	36,761	41,943	54,363	57,545
Ohio U.	214	49,764	52,465	59,877	67,430	19,164	20,587	21,919	25,975
U. Wisconsin-Milwaukee	215	55,664	56,822	60,712	66,270	24,397	24,036	25,612	27,698
Rowan U.	216	26,458	29,949	47,810	63,984	17,400	18,613	18,454	21,291
Southern Methodist U.	217	41,960	57,544	59,749	62,553	17,886	17,680	19,986	22,054
Lehigh U.	218	41,279	51,769	56,301	62,406	29,051	36,535	39,909	44,797
Western Michigan U. and Homer Stryker M.D. School of Medicine	219	25,314	27,768	45,157	62,063	13,944	12,895	12,631	11,928
Southern Illinois U., Carbondale	220	47,210	46,967	58,291	61,460	12,655	13,582	17,209	18,282
Loyola U., Chicago	221	44,036	46,169	52,445	61,454	26,793	26,972	29,712	36,481

Table 6. Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2024 total R&D expenditures: FYs 2021–24

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2021	2022	2023	2024	2021	2022	2023	2024
U. Puerto Rico, Medical Sciences Campus	222	44,111	47,578	61,235	61,453	33,262	35,050	46,789	47,952
Kent State U.	223	50,408	52,175	58,984	61,437	15,179	16,195	17,959	18,251
Nova Southeastern U.	224	24,513	31,189	50,173	60,629	10,386	9,314	11,637	14,369
SUNY, Upstate Medical U.	225	44,870	50,586	53,219	59,482	24,974	27,737	30,069	38,105
Boise State U.	226	46,065	47,617	52,989	57,749	31,357	32,015	35,801	38,325
Catholic U. of America	227	35,548	38,191	50,433	57,705	23,128	26,285	35,502	40,655
U. Missouri, Kansas City	228	33,855	52,657	54,565	57,030	21,203	31,134	28,115	27,638
U. Denver	229	38,751	45,561	53,484	55,630	23,415	26,040	33,148	39,622
Morgan State U.	230	20,628	29,482	43,868	55,506	16,319	24,670	30,451	37,110
Air Force Institute of Technology	231	45,703	44,391	56,848	54,204	27,025	32,479	45,087	44,128
U. Maryland Center for Environmental Science	232	51,201	53,718	53,233	54,036	14,072	15,109	15,378	16,689
U.S. Air Force Academy	233	32,086	36,506	44,880	53,158	31,818	35,826	44,056	51,933
Texas Tech U., Health Sciences Center	234	41,583	46,574	48,638	52,986	12,148	14,620	14,732	16,721
Texas A&M U.-Corpus Christi	235	30,500	36,014	39,305	52,175	10,967	15,229	17,742	20,750
Portland State U.	236	41,311	41,483	46,324	51,677	29,842	30,922	31,731	35,955
Kennesaw State U.	237	18,880	21,705	32,497	51,575	3,104	3,290	5,908	7,668
Marquette U.	238	37,087	40,638	47,819	49,099	13,918	15,316	20,055	23,110
Chapman U.	239	25,820	34,212	41,791	48,308	8,574	11,098	10,015	11,392
Mercer U.	240	51,989	50,222	45,247	46,504	34,413	32,504	29,944	28,732
Georgia Southern U.	241	37,201	36,362	40,026	46,093	3,373	2,605	3,562	4,075
CUNY, Hunter C.	242	33,816	35,348	37,172	45,223	23,166	21,142	22,124	22,412
Montclair State U.	243	17,390	32,202	38,209	43,798	4,146	5,189	5,916	7,489
Delaware State U.	244	23,193	29,016	33,499	43,724	16,460	24,361	24,167	28,488
U. West Florida	245	36,837	38,870	40,454	43,503	13,313	17,114	17,954	17,226
East Tennessee State U.	246	18,449	23,420	42,335	42,526	8,358	9,715	10,776	11,338
U. Massachusetts, Dartmouth	247	28,729	33,136	42,018	42,352	8,223	11,162	13,742	14,803
San Francisco State U.	248	35,768	36,617	34,466	42,000	15,993	15,276	16,507	16,033
Marshall U.	249	23,620	25,692	33,693	39,178	12,854	16,369	19,797	21,348
SUNY, C. of Environmental Science and Forestry	250	28,440	32,904	32,682	38,661	6,979	7,766	9,231	8,133
Oakland U.	251	20,261	38,061	37,263	38,508	7,426	9,533	9,600	13,684
California Polytechnic State U., San Luis Obispo	252	25,953	33,155	35,830	38,133	11,163	15,084	14,810	14,234
Illinois Institute of Technology	253	29,698	29,791	33,021	37,990	24,762	25,963	28,027	31,996
SUNY, Downstate Health Sciences U.	254	34,459	30,918	35,600	37,322	27,620	25,081	28,543	28,276
Tennessee Technological U.	255	15,387	16,398	20,797	36,399	7,625	8,156	9,975	14,602
U. Nebraska, Omaha	256	19,006	24,259	30,841	35,134	13,503	17,301	22,096	25,294
Tennessee State U.	257	21,977	18,012	28,246	35,017	15,066	10,859	15,983	20,520
Embry-Riddle Aeronautical U.	258	19,830	28,650	27,451	35,014	14,859	23,863	23,733	28,014



Table 6. Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2024 total R&D expenditures: FYs 2021–24

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2021	2022	2023	2024	2021	2022	2023	2024
Northern Illinois U.	259	25,261	27,068	29,134	34,467	9,080	9,840	10,849	14,151
Illinois State U.	260	24,152	25,510	32,961	34,238	9,787	8,673	13,612	13,132
Teachers C., Columbia U.	261	24,335	30,978	34,183	34,096	8,521	10,177	11,871	13,361
California State U., Sacramento	262	23,699	23,795	28,027	33,952	5,582	6,646	11,284	10,567
California State U., Long Beach	263	15,134	17,807	21,458	33,897	11,178	11,739	13,758	24,285
California State U., Fullerton	264	9,006	16,642	25,811	33,709	4,551	6,136	6,049	5,372
U. Puerto Rico, Rio Piedras	265	28,896	28,083	29,202	33,659	15,108	16,905	16,053	19,254
Villanova U.	266	24,723	25,955	31,513	33,090	5,826	6,476	8,741	9,754
U. Tulsa	267	17,187	17,416	24,845	32,802	5,876	5,893	8,545	10,777
Desert Research Institute	268	26,365	28,478	30,716	32,250	16,641	17,341	20,061	25,072
Louisiana State U., Health Sciences Center, Shreveport	269	24,600	29,502	35,624	31,887	12,359	15,503	18,742	18,040
CUNY, Queens C.	270	16,063	21,434	25,492	31,845	12,386	14,756	17,811	19,019
Texas A&M U.-Kingsville	271	23,578	23,451	26,401	31,751	9,265	8,225	9,584	14,728
Prairie View A&M U.	272	17,582	20,429	21,791	31,632	9,566	11,665	12,354	18,433
Louisiana Tech U.	273	27,417	26,591	31,676	31,247	6,428	5,734	8,118	10,178
U. Minnesota, Duluth	274	23,767	23,362	25,534	29,901	5,325	6,122	7,533	8,999
Tuskegee U.	275	21,355	21,941	25,625	29,720	15,424	14,911	16,023	19,906
Creighton U.	276	23,251	27,609	28,443	29,334	8,585	12,022	12,681	12,815
CUNY, Graduate School of Public Health and Health Policy	277	15,035	16,423	26,651	28,637	12,254	11,880	13,413	16,788
Miami U.	278	25,138	28,799	28,430	28,566	9,412	10,277	10,724	11,085
Fordham U.	279	16,731	20,432	23,832	28,249	4,076	4,856	4,687	6,944
U. South Dakota	280	27,537	30,322	29,855	27,908	11,664	13,702	14,101	13,807
Eastern Virginia Medical School	281	19,415	22,165	23,991	27,891	14,774	17,616	17,947	21,658
Texas Christian U.	282	15,336	18,353	24,050	27,659	4,448	5,670	7,627	8,818
Central Michigan U.	283	21,726	25,105	25,363	27,429	6,919	9,773	9,591	11,541
California State U., Northridge	284	16,573	19,638	26,584	27,009	13,989	15,546	19,169	16,778
California State Polytechnic U., Humboldt	285	14,103	15,612	18,800	26,607	1,975	2,421	3,280	5,257
U. Puerto Rico, Mayaguez	286	18,368	18,274	13,989	26,455	13,073	16,223	12,260	17,027
U. Texas Health Science Center, Tyler	287	27,928	33,872	32,077	26,240	12,007	14,362	12,555	8,444
Rutgers, State U. New Jersey, Newark	288	23,854	28,345	29,787	26,222	16,281	16,099	16,315	17,099
Clarkson U.	289	16,765	21,703	25,399	26,150	7,246	8,834	10,611	13,293
U. Guam	290	17,666	20,481	22,388	25,306	14,316	17,066	18,992	20,986
Tarleton State U.	291	17,729	20,056	23,345	24,875	4,620	5,055	5,478	4,718
Jackson State U.	292	16,157	17,481	19,457	24,744	14,038	15,045	16,443	20,528
U. Alaska, Anchorage	293	21,332	21,024	19,850	24,649	15,079	15,249	12,646	14,204
U. Akron	294	17,340	19,943	21,525	24,568	9,024	11,036	10,709	12,910
U. Colorado Denver	295	18,039	18,080	22,530	24,313	11,866	12,668	17,181	18,293

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Institution	Rank	Total				Federally financed			
		2021	2022	2023	2024	2021	2022	2023	2024
South Dakota School of Mines and Technology	296	15,746	20,061	20,337	23,941	11,587	15,100	14,640	18,006
New School	297	14,281	19,218	22,680	23,902	1,324	1,261	1,337	1,052
Loma Linda U.	298	14,029	15,517	22,262	23,898	10,116	9,134	12,485	13,846
Florida Gulf Coast U.	299	8,197	9,896	24,899	23,841	4,467	6,482	9,858	11,117
Meharry Medical C.	300	15,840	17,960	22,002	23,691	i 13,784	15,048	18,398	19,809
Charles R. Drew U. of Medicine and Science	301	13,228	14,581	19,551	23,664	9,945	10,656	13,297	15,475
Western Washington U.	302	18,033	18,693	21,360	23,275	6,481	6,471	7,478	8,949
Albany Medical C.	303	22,443	22,297	23,259	23,054	13,166	13,384	14,193	12,760
U. North Carolina, Wilmington	304	16,656	20,053	21,879	22,672	6,852	7,178	8,116	9,547
Wright State U.	305	26,259	27,440	26,189	22,647	19,617	20,529	19,081	15,597
Montana Technological U.	306	14,933	14,188	18,375	22,588	6,133	5,600	9,585	13,993
CUNY, Advanced Science Research Center	307	15,403	16,507	17,309	22,464	11,840	12,580	11,916	15,129
U.S. Military Academy	308	19,696	20,841	20,493	22,292	13,708	19,708	19,390	20,577
New York Medical C.	309	18,872	16,461	17,113	21,852	10,739	9,070	8,226	11,490
James Madison U.	310	14,687	17,021	21,265	21,394	2,379	2,884	3,475	3,482
CUNY, John Jay C. of Criminal Justice	311	11,791	16,233	22,967	21,156	3,519	5,777	7,452	7,340
Bowling Green State U.	312	18,619	19,342	20,726	19,615	7,263	7,918	8,208	8,204
U. North Florida	313	15,782	18,394	23,269	19,318	7,267	7,758	8,113	5,667
U. New Orleans	314	16,979	21,911	20,396	19,311	3,674	8,270	5,283	5,950
Towson U.	315	3,794	8,788	17,198	19,215	1,758	2,844	3,653	5,432
Texas Southern U.	316	9,128	12,120	16,287	19,045	5,562	7,550	10,969	12,131
Long Island U.	317	15,059	17,183	16,612	18,759	2,686	2,652	1,993	2,879
Duquesne U.	318	10,521	13,944	14,989	18,348	5,020	6,309	6,555	8,989
Florida Institute of Technology	319	23,195	17,706	16,859	17,842	13,049	10,970	11,520	10,759
Southern Illinois U., Edwardsville	320	18,044	19,152	21,927	17,673	3,844	3,250	3,621	4,012
Idaho State U.	321	13,953	16,615	17,548	17,494	7,216	9,080	9,230	8,964
Sam Houston State U.	322	13,315	12,009	11,760	16,716	5,632	4,936	3,307	6,089
Alabama A&M U.	323	9,180	i 9,611	15,588	16,248	7,432	i 9,221	12,197	12,701
North Carolina Central U.	324	14,105	16,600	16,406	i 16,212	10,676	13,709	12,975	i 12,241
Missouri State U.	325	10,014	11,162	14,654	16,103	8,931	10,084	12,973	13,473
Oklahoma State U., Center for Health Sciences	326	7,758	8,368	12,500	16,054	2,304	3,366	4,773	6,186
Xavier U. Louisiana	327	12,799	14,156	15,519	15,955	11,213	11,733	12,833	12,892
Texas Tech U., Health Sciences Center, El Paso	328	11,360	14,206	13,189	15,603	1,831	2,339	2,415	3,701
Loyola Marymount U.	329	12,819	12,773	14,086	15,570	2,170	2,824	2,921	3,958
CUNY, Brooklyn C.	330	6,318	6,220	8,535	15,244	4,505	4,623	5,518	5,714
Alcorn State U.	331	14,188	16,664	i 19,141	14,844	7,593	9,294	i 10,996	10,148
U. of the Virgin Islands	332	15,231	20,259	20,259	14,762	13,099	19,127	19,127	13,422



Table 6. Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2024 total R&D expenditures: FYs 2021–24

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2021	2022	2023	2024	2021	2022	2023	2024
U. Missouri, Saint Louis	333	14,632	13,247	12,808	14,698	5,812	4,573	4,569	5,273
U. Hawaii, system office	334	12,918	12,646	14,172	14,542	12,688	12,511	14,150	14,534
Salisbury U.	335	10,552	10,614	14,557	14,422	3,271	3,734	5,049	5,292
California State U., Fresno	336	9,213	12,603	11,411	14,410	4,101	5,928	4,864	6,203
California State U., East Bay	337	10,852	19,035	21,312	14,307	3,289	8,997	8,508	9,172
California State Polytechnic U., Pomona	338	7,011	7,909	10,722	13,685	4,396	5,407	8,162	10,621
Midwestern U.	339	10,961	11,069	12,725	13,632	1,506	1,609	2,862	3,227
Kentucky State U.	340	8,756	9,284	11,591	13,534	3,716	4,743	7,605	7,244
Clark Atlanta U.	341	8,892	8,791	10,320	13,424	5,355	5,895	7,687	10,028
U. Maryland, Eastern Shore	342	8,636	9,274	10,730	13,422	8,346	9,062	10,201	11,752
Langston U.	343	6,345	6,481	10,505	13,340	3,089	3,616	5,473	7,583
Virginia State U.	344	10,123	12,326	13,504	13,271	4,846	7,115	7,166	6,684
Ball State U.	345	8,826	9,932	11,650	13,095	2,469	5,302	6,355	6,935
Northeast Ohio Medical U.	346	13,853	13,465	13,116	13,049	9,999	9,400	8,873	9,018
California State U., San Marcos	347	10,213	9,238	11,443	12,788	8,831	7,986	9,845	10,758
Clark U.	348	7,931	8,813	11,539	12,707	2,754	2,500	2,235	3,231
Winston-Salem State U.	349	8,123	10,436	8,668	12,650	4,841	8,903	7,901	11,818
U. San Diego	350	7,580	10,143	12,902	12,649	2,554	2,911	3,501	4,220
South Carolina State U.	351	5,735	i 6,773	i 7,814	12,496	4,493	i 4,910	i 5,330	8,936
U. Michigan, Dearborn	352	7,472	8,180	10,839	12,460	2,366	2,537	3,464	5,742
U. Tennessee, Chattanooga	353	11,192	12,808	14,671	12,104	4,507	5,214	6,003	4,563
Rosalind Franklin U. of Medicine and Science	354	13,805	12,988	11,629	11,769	9,357	7,292	7,124	7,989
Fort Valley State U.	355	4,842	9,969	15,536	11,727	4,429	7,265	7,505	6,246
California State U., Monterey Bay	356	6,882	8,975	10,678	11,717	3,813	5,051	5,639	5,717
West Texas A&M U.	357	9,920	9,438	10,302	11,616	2,195	2,123	2,118	1,990
Central State U.	358	8,751	10,274	11,123	11,459	4,165	5,576	5,523	4,749
California State U., San Bernardino	359	11,607	11,929	13,152	11,339	5,867	6,693	7,606	6,998
Appalachian State U.	360	4,509	7,189	8,479	11,293	1,694	2,567	3,497	4,178
Western Kentucky U.	361	6,944	7,720	9,298	11,213	2,348	3,127	3,401	4,511
Eastern Michigan U.	362	7,233	8,025	8,363	11,202	2,237	2,346	2,521	3,500
Western U. of Health Sciences	363	6,688	9,029	8,929	11,190	5,620	7,131	6,099	7,285
U. San Francisco	364	1,375	2,657	9,633	10,962	255	547	1,015	1,709
Arkansas State U., Jonesboro	365	8,422	8,214	7,323	10,950	4,249	3,932	3,083	3,744
California State U., Los Angeles	366	9,382	9,839	10,186	10,889	7,342	8,605	8,973	9,598
Pepperdine U.	367	2,655	3,775	10,632	10,870	835	883	674	827
Wesleyan U.	368	8,009	10,101	10,828	10,819	4,032	5,267	5,955	5,676
Hampton U.	369	11,669	11,462	9,769	10,660	11,517	11,274	9,445	9,710

Table 6. Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2024 total R&D expenditures: FYs 2021–24

Institution	Rank	Total				Federally financed			
		2021	2022	2023	2024	2021	2022	2023	2024
U.S. Naval Academy	370	10,818	10,664	10,920	10,592	10,247	10,147	10,260	10,172
DePaul U.	371	6,675	8,362	13,267	10,522	4,518	3,757	5,592	5,341
U. Arkansas, Little Rock	372	7,397	7,530	8,685	10,461	6,939	6,675	7,544	9,624
Saint Joseph's U.	373	2,922	9,041	8,675	10,451	1,158	2,520	2,680	2,365
Hofstra U.	374	5,545	6,939	8,162	10,425	1,266	2,118	1,995	2,990
Yeshiva U.	375	5,452	7,274	8,661	10,290	1,509	1,695	1,229	2,348
MGH Institute of Health Professions	376	3,037	5,805	7,426	10,029	2,500	4,628	6,200	8,800
Rutgers, State U. New Jersey, Camden	377	5,142	6,480	9,527	9,849	2,905	3,349	3,042	2,772
Purdue U., Northwest	378	5,647	6,387	7,504	9,549	2,280	3,171	3,409	4,036
Gallaudet U.	379	6,126	6,360	9,894	9,524	2,140	3,287	5,523	5,300
Kean U.	380	3,538	5,499	10,062	9,479	362	715	1,870	3,130
Seton Hall U.	381	5,320	5,741	7,068	9,477	2,137	2,092	2,778	3,392
U. of the District of Columbia	382	8,104	10,779	7,945	9,386	6,851	9,859	7,367	6,253
Lincoln U., Jefferson City	383	7,621	11,500	8,196	9,261	5,621	8,988	4,610	5,189
Texas Woman's U.	384	4,943	6,029	6,922	8,998	1,514	2,091	2,439	3,026
Southern U. and A&M C., Agricultural Research and Extension Center	385	6,164	7,048	7,764	8,969	3,588	4,261	4,688	5,876
California State U., Chico	386	4,209	4,177	5,984	8,918	2,258	2,312	3,152	2,964
Middle Tennessee State U.	387	22,531	22,631	9,577	8,736	4,150	4,347	3,822	3,542
Amherst C.	388	4,636	7,177	8,152	8,666	1,375	2,862	2,869	3,091
C. Charleston	389	6,361	6,421	7,231	8,662	4,126	4,485	5,036	5,698
U. Hawaii, Hilo	390	7,411	8,001	8,112	8,501	5,510	5,292	6,068	6,015
U. Northern Colorado	391	3,159	3,308	9,064	8,476	1,942	1,692	1,705	1,325
California State U., Bakersfield	392	6,253	4,815	6,409	8,457	3,827	2,665	3,525	4,979
Lawrence Technological U.	393	1,764	3,050	4,632	8,435	284	1,109	1,786	4,253
Pacific U.	394	4,690	6,128	10,719	8,383	2,072	2,672	7,133	3,329
Texas A&M International U.	395	3,740	4,486	5,602	8,378	1,243	1,624	1,966	3,903
U. Wisconsin-Superior	396	2,602	4,615	4,825	8,355	1,843	3,635	3,559	7,452
Lamar U.	397	4,734	5,304	9,168	8,324	1,873	1,180	2,259	2,572
Edward Via C. of Osteopathic Medicine	398	6,629	7,121	7,597	8,132	537	482	678	686
U. New England	399	6,234	6,664	6,756	8,093	3,864	3,660	4,777	5,893
Santa Clara U.	400	3,142	4,225	5,679	8,011	1,930	2,660	3,448	3,494
U. Arkansas, Pine Bluff	401	8,713	7,506	7,766	7,975	3,960	3,306	4,204	4,728
U. Washington, Tacoma	402	4,291	5,484	6,243	7,973	3,459	4,553	3,875	5,319
Georgia C. and State U.	403	247	216	294	7,957	127	51	174	561
Abilene Christian U.	404	4,597	6,310	8,182	7,868	827	1,032	946	328
Benedict C.	405	745	1,059	2,307	7,788	725	1,057	1,665	4,201
Claremont McKenna C.	406	4,515	5,893	6,925	7,777	637	1,070	1,035	1,208

Table 6. Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2024 total R&D expenditures: FYs 2021–24

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2021	2022	2023	2024	2021	2022	2023	2024
Southern Connecticut State U.	407	5,750	6,286	8,007	7,620	713	848	1,433	1,159
Philadelphia C. of Osteopathic Medicine	408	6,186	6,667	7,459	7,611	318	40	442	225
U. Colorado Colorado Springs	409	5,338	7,761	7,012	7,528	3,942	5,345	5,205	6,025
Marian U., Indianapolis	410	ne	ne	3,009	7,524	ne	ne	918	1,598
Smith C.	411	4,085	5,831	5,954	7,375	2,433	2,403	3,013	3,459
Norfolk State U.	412	4,316	3,593	6,194	7,309	3,976	3,398	4,381	4,918
Texas A&M U.-San Antonio	413	1,311	1,242	1,593	7,149	277	394	1,233	3,916
Grinnell C.	414	4,122	5,867	7,597	7,131	344	242	1,082	634
Williams C.	415	4,902	i 5,657 i	6,448	i 7,074 i	1,152	i 1,286 i	i 1,455 i	i 1,537 i
Pennsylvania State U., Behrend	416	5,509	6,384	7,614	7,054	2,286	3,262	4,378	3,920
Grand Valley State U.	417	6,809	6,695	6,231	7,041	i 1,415	1,819	1,808	2,035
Wellesley C.	418	6,252	6,326	6,320	6,989	3,469	2,915	2,921	2,890
Northwest Indian C.	419	4,641	i 5,632	6,184	i 6,988 i	3,704	i 4,298	4,595	i 5,172 i
Dine C.	420	1,570	2,091	3,054	6,960	1,570	2,091	2,255	4,692
West Chester U. Pennsylvania	421	4,433	5,903	6,132	6,870	608	854	1,386	1,822
U.S. Army War C.	422	4,662	i 5,496 i	6,035	i 6,819 i	4,662	i 5,496 i	i 6,035 i	i 6,793 i
Texas A&M U.-Commerce	423	3,827	4,955	7,029	6,811	1,283	1,776	1,936	2,412
Indiana U. Pennsylvania	424	6,180	6,313	6,052	6,568	1,503	1,797	1,702	1,536
New York Institute of Technology	425	4,465	5,555	5,790	6,559	1,988	2,988	3,252	3,710
Sul Ross State U.	426	3,004	i 3,940 i	4,878	6,546	843	i 1,205 i	1,568	3,900
U. Southern Maine	427	5,480	5,498	5,930	6,545	2,020	2,201	2,598	2,862
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	428	3,776	4,954	5,324	6,480	376	858	273	392
Barnard C.	429	4,632	4,988	6,320	6,361	3,527	3,758	4,235	4,334
Oregon Institute of Technology	430	4,314	5,086	i 5,585 i	6,311	i 252	340	1,375	1,548
Bryn Mawr C.	431	8,987	9,123	9,039	6,302	1,429	1,257	1,289	1,152
CUNY, Lehman C.	432	4,181	4,656	5,918	6,259	3,382	3,652	4,487	4,313
Roseman U. of Health Sciences	433	5,985	6,296	6,065	6,198	53	30	38	63
Bucknell U.	434	4,476	5,259	5,887	6,193	1,696	2,539	2,359	2,692
Swarthmore C.	435	3,296	4,225	5,620	6,067	1,414	1,733	2,315	1,866
West Virginia State U.	436	6,565	6,703	5,226	6,059	4,119	4,278	2,800	3,779
U. of St. Thomas (MN)	437	5,146	2,476	2,280	5,994	1,321	527	531	1,391
CUNY, Baruch C.	438	2,521	3,156	4,084	5,977	1,691	1,894	1,879	2,168
Providence C.	439	766	2,012	5,533	5,924	574	1,649	4,648	5,021
Alfred U.	440	2,660	3,477	4,154	5,915	939	1,008	1,958	3,590
Morehouse C.	441	4,533	5,664	5,750	5,903	4,533	5,664	5,750	5,903
Naval War C.	442	5,542	5,529	5,819	5,868	5,542	5,529	5,819	5,868
Fairfield U.	443	849	1,097	4,213	5,839	147	197	180	241

Table 6. Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2024 total R&D expenditures: FYs 2021–24

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2021	2022	2023	2024	2021	2022	2023	2024
Trinity U.	444	2,905	3,657	5,296	5,838	1,078	1,345	2,203	2,304
U. Baltimore	445	14,672	6,646	6,615	5,797	11,692	4,853	4,250	3,471
California State U., Dominguez Hills	446	2,690	4,230	5,558	5,762	2,001	3,156	2,457	2,674
Occidental C.	447	3,587	4,309	5,031	5,753	2,348	1,994	1,640	1,285
CUNY, C. Staten Island	448	2,860	3,545	4,730	5,737	2,234	2,916	3,296	4,625
Pennsylvania State U., Harrisburg	449	2,938	2,927	5,159	5,735	1,616	1,911	3,045	3,305
Sacred Heart U.	450	972	3,741	4,733	5,698	675	862	639	1,337
U. North Carolina, Asheville	451	4,844	5,973	6,761	5,677	2,322	2,600	3,323	3,295
Dakota State U.	452	3,416	4,684	5,253	5,652	2,603	3,976	2,437	2,111
U. New Haven	453	4,069	4,548	3,602	5,640	2,069	2,447	2,227	2,836
High Tech High Graduate School of Ed.	454	5,032	6,203	5,939	5,585	0	0	0	0
Hope C.	455	5,211	6,355	6,910	5,584	1,992	3,691	3,639	3,317
Southeastern Louisiana U.	456	1,723	2,407	2,858	5,577	795	1,285	1,366	1,688
Pomona C.	457	2,146	2,589	4,149	5,522	930	1,217	1,205	1,083
Southern U. and A&M C., Baton Rouge	458	4,943	4,344	5,201	5,483	3,770	3,595	4,444	5,298
U. Washington, Bothell	459	8,311	8,197	5,738	5,320	2,956	4,009	3,787	4,149
Reed C.	460	5,155	5,155	5,155	5,154	1,948	2,090	2,232	2,377
Rhode Island School of Design	461	4,499	5,080	5,661	5,130	294	301	311	342
Coastal Carolina U.	462	2,245	3,724	4,729	5,094	948	1,130	1,847	2,341
Trinity C., Hartford	463	1,775	1,620	4,099	5,074	1,348	1,049	687	545
Austin Peay State U.	464	2,740	3,149	3,950	5,070	597	870	1,401	2,386
National U.	465	ne	ne	ne	5,022	ne	ne	ne	2,725
Carleton C.	466	3,800	4,358	4,185	4,993	1,499	1,914	2,800	3,167
Toyota Technological Institute, Chicago	467	4,967	4,470	4,636	4,982	3,090	2,199	2,127	2,186
Citadel Military C. South Carolina	468	2,054	4,993	3,757	4,969	1,714	4,360	3,287	4,699
St. John's U., New York	469	2,940	3,592	3,955	4,947	1,950	2,456	2,792	3,685
Sonoma State U.	470	2,957	3,774	4,625	4,928	2,212	2,889	3,483	3,755
Suffolk U.	471	2,043	1,401	5,164	4,890	634	340	893	702
Franklin and Marshall C.	472	3,722	4,440	4,111	4,815	1,363	1,680	1,469	1,924
Claremont Graduate U.	473	7,235	8,382	7,262	4,808	1,152	1,610	1,422	1,061
Colgate U.	474	3,306	4,343	4,930	4,730	1,440	1,570	1,521	1,509
Seattle U.	475	1,562	1,894	3,949	4,699	1,102	1,143	1,165	1,389
U. Wisconsin-Stevens Point	476	4,401	3,740	4,589	4,691	1,776	1,235	2,079	2,048
Bentley U.	477	1,430	1,161	3,261	4,639	762	509	1,014	1,037
Fort Lewis C.	478	1,926	2,765	3,372	4,582	1,746	2,590	2,816	3,866
U. Detroit Mercy	479	4,578	5,186	5,142	4,550	3,917	4,663	4,434	3,797
Spelman C.	480	2,282	2,686	4,877	4,537	1,886	2,539	4,567	4,201

Table 6. Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2024 total R&D expenditures: FYs 2021–24

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2021	2022	2023	2024	2021	2022	2023	2024
Davidson C.	481	2,466	2,788	2,926	4,525	1,151	1,370	1,340	1,738
Colby C.	482	1,672	2,530	4,454	4,513	750	1,466	3,011	3,236
Stephen F. Austin State U.	483	3,204	3,184	3,661	4,502	1,029	879	1,098	951
U. Central Oklahoma	484	5,333	10,384	5,433	4,495	2,248	2,060	2,624	1,950
St. Cloud State U.	485	2,379	2,226	2,901	4,416	577	401	689	810
U. Northern Iowa	486	3,259	3,486	4,564	4,409	1,995	2,132	2,975	3,220
Monmouth U.	487	1,667	1,938	2,517	4,340	174	535	762	1,143
St. John Fisher U.	488	ne	ne	3,690	4,190	ne	ne	94	130
Albany State U.	489	880	1,059	1,932	4,163	552	628	1,681	3,973
Western Illinois U.	490	3,532	4,311	3,824	4,142	i 3,163	4,032	3,283	3,574
Haverford C.	491	3,835	4,487	4,088	4,103	2,455	2,722	2,344	1,955
New Mexico Highlands U.	492	1,882	i 2,674	i 3,468	4,074	1,828	i 2,622	i 3,416	3,348
National Louis U.	493	ne	ne	ne	3,993	ne	ne	ne	2,231
Keck Graduate Institute	494	1,350	i 1,282	4,059	3,972	685	i 643	2,338	2,644
Fayetteville State U.	495	3,933	3,206	3,574	i 3,942	1,988	1,667	2,461	i 3,256
East Stroudsburg U. Pennsylvania	496	1,440	1,410	2,928	3,916	538	598	909	1,071
Alabama State U.	497	2,631	3,178	3,229	3,901	2,338	2,930	2,848	3,408
Harvey Mudd C.	498	2,359	3,350	3,682	3,900	1,443	1,956	1,968	2,012
Whitman C.	499	1,034	1,270	1,568	3,891	481	434	449	323
Des Moines U.	500	5,164	i 5,307	3,932	3,889	1,019	i 1,589	556	402
Lake Superior State U.	501	1,226	2,056	2,545	3,876	605	1,184	1,475	1,826
California State U., Channel Islands	502	2,341	3,377	3,992	3,860	993	1,638	1,773	1,672
U. Nebraska, Kearney	503	3,201	4,009	3,681	3,796	1,327	1,900	1,739	1,645
Purdue U., Fort Wayne	504	2,495	2,134	2,804	3,791	401	313	226	265
Hawaii Pacific U.	505	1,849	3,302	2,913	3,784	1,741	2,667	1,942	2,083
U. Central del Caribe	506	3,831	5,053	4,878	3,780	2,492	2,807	2,929	2,068
SUNY, C. of Optometry	507	3,460	4,497	4,423	3,776	2,105	2,080	2,469	2,613
Vassar C.	508	1,606	2,580	2,596	3,775	918	1,052	1,204	2,205
Christopher Newport U.	509	2,656	2,762	3,507	3,764	1,497	1,701	2,055	2,224
Bowie State U.	510	1,398	3,351	2,612	3,731	1,398	3,351	2,469	3,714
U. Wisconsin-Eau Claire	511	1,852	1,628	2,191	3,730	909	681	1,027	1,740
Roger Williams U.	512	1,854	2,156	3,465	3,679	1,202	1,351	1,973	2,244
Hamilton C.	513	1,747	1,879	3,285	3,664	286	338	413	633
U. Texas, Tyler	514	2,279	3,246	3,487	3,632	929	1,585	1,652	1,976
Murray State U.	515	3,844	3,371	3,193	3,630	2,721	2,176	2,058	2,428
New England C. of Optometry	516	1,978	1,868	2,491	3,602	1,623	1,609	1,946	1,935
U. of the Incarnate Word	517	1,982	2,064	2,245	3,580	1,076	1,078	1,086	1,285

Table 6. Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2024 total R&D expenditures: FYs 2021–24

(Dollars in thousands)

Institution	Rank	Total						Federally financed									
		2021		2022		2023		2024		2021		2022		2023		2024	
Middlebury C.	518	2,927		2,603		2,975		3,576		2,639		2,281		2,564		3,135	
Saginaw Valley State U.	519	2,428	i	2,862	i	3,143	i	3,552	i	1,899	i	2,341	i	2,503	i	2,818	i
Winthrop U.	520	2,586		3,424		3,189		3,466		1,495		2,542		2,358		2,894	
Tougaloo C.	521	2,442	i	2,782	i	3,122	i	3,462		2,442	i	2,782	i	3,122	i	3,462	
National Defense U.	522	3,786		3,920		2,494		3,459		3,786		3,920		2,494		3,459	
U. Wisconsin-Oshkosh	523	1,656		1,990		2,087		3,443		1,083		1,336		1,249		1,904	
Fisk U.	524	4,320		4,000		4,867		3,425		3,940		3,486		3,819		2,681	
Bowdoin C.	525	2,417		2,648		3,339		3,406		1,836		1,867		2,186		1,928	
Azusa Pacific U.	526	5,318		3,389		6,097		3,401		212		282		140		245	
Pace U.	527	3,649		3,524		4,056		3,348		2,536		2,534		2,698		2,067	
Troy U.	528	1,548		2,517		3,785		3,318		1,488		2,296		3,069		2,441	
Dillard U.	529	2,528		2,270		2,296		3,317		1,257		1,422		1,228		1,792	
Northern Kentucky U.	530	3,403		3,888		3,790		3,271		2,156		2,596		2,413		2,289	
SUNY, Oswego	531	1,003		1,209		1,595		3,242		415		544		894		2,176	
Minnesota State U., Mankato	532	2,170		2,206		3,055		3,235		575		575		905		977	
Furman U.	533	2,431		2,650		2,267		3,231		1,028		1,280		1,300		1,685	
U. Central Arkansas	534	3,990		3,684		3,092		3,142		1,640		1,731		1,824		1,823	
Milwaukee School of Engineering	535	3,193		3,545		3,317		3,090		751		969		722		573	
U. Houston-Clear Lake	536	1,716		1,800		2,127		3,080		865		841		1,273		1,635	
U. Wisconsin-La Crosse	537	3,001		2,942		2,921		3,068		895		968		714		1,051	
U. Houston-Downtown	538	1,828		1,485		1,967		3,049		1,169		903		1,495		1,975	
CUNY, New York City C. of Technology	539	1,367		1,955		2,819		3,033		1,197		1,769		2,498		2,260	
Blackfeet Community C.	540	ne		ne		ne		3,001		ne		ne		ne		3,001	
Elon U.	541	2,032		1,797		2,544		2,997		138		428		479		480	
U. of Health Sciences and Pharmacy in St. Louis	542	5,313		4,280		4,343		2,976		4,063		2,523		3,110		1,867	
U. Richmond	543	2,294		2,670		3,058		2,961		1,534		1,624		1,379		1,552	
Eastern Washington U.	544	1,921		2,437		2,546		2,957		775		855		1,015		1,722	
U. Louisiana, Monroe	545	2,198		3,128		2,203		2,940		1,465		1,993		1,655		2,083	
Lewis and Clark C.	546	2,281		2,566		2,686		2,924		702		746		776		1,051	
C. New Jersey	547	1,912		3,464		2,641		2,857		1,079		1,984		1,755		1,779	
Merrimack C.	548	407		1,010		1,560		2,852		337		804		892		1,339	
U. Wisconsin-River Falls	549	999		1,546		2,772		2,847		212		318		551		575	
Northeastern Illinois U.	550	1,913		2,224		2,262		2,844		1,913		2,224		2,262		2,844	
St. Lawrence U.	551	ne		ne		2,663		2,824		ne		ne		87		211	
Kettering U.	552	2,438		1,904		1,770		2,770		353		213		77		761	
U. South Carolina Upstate	553	496		594		2,554		2,764		216		358		330		566	
Skidmore C.	554	2,335		1,734		2,384		2,759		1,739		861		1,288		1,605	

Table 6. Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2024 total R&D expenditures: FYs 2021–24

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2021	2022	2023	2024	2021	2022	2023	2024
Central Washington U.	555	2,410	3,176	3,683	2,757	1,778	2,429	2,499	1,693
Marymount U.	556	2,307	1,298	2,601	2,749	337	178	396	1,242
CUNY, system office	557	1,664	2,900	4,296	2,723	768	798	2,901	2,051
Chicago State U.	558	2,414	3,701	3,756	2,701	2,414	3,699	3,756	2,701
Youngstown State U.	559	2,775	4,157	3,244	2,691	2,198	3,533	2,691	2,491
La Sierra U.	560	1,517	2,246	2,496	2,688	812	972	1,066	1,148
Lafayette C.	561	1,015	2,059	1,991	2,684	508	1,300	1,141	1,557
U. Texas of the Permian Basin	562	3,504	3,577	2,769	2,682	1,762	1,538	1,013	1,294
Quinnipiac U.	563	1,906	2,128	2,425	2,661	42	49	56	59
Black Hills State U.	564	1,280	1,987	2,260	2,646	1,124	1,676	1,918	2,304
U. Wisconsin-Green Bay	565	1,879	2,713	2,801	2,637	876	1,046	1,222	1,131
Pittsburg State U.	566	2,730	2,884	2,979	2,577	759	1,167	1,591	1,199
U. Illinois, Springfield	567	2,612	2,881	2,508	2,552	1,071	1,210	1,057	712
Virginia Military Institute	568	1,351	1,746	2,350	2,506	1,075	1,137	1,534	1,855
Calvin U.	569	2,637	3,169	2,555	2,490	929	931	854	803
SUNY, Buffalo State U.	570	1,962	2,172	2,636	2,453	977	1,299	1,615	1,419
California State U., Stanislaus	571	2,085	1,966	2,305	2,440	1,354	1,056	1,150	1,705
Seattle Pacific U.	572	683	742	1,671	2,414	630	639	581	564
U. Alaska, Southeast	573	1,176	1,570	1,822	2,398	1,046	1,392	1,463	1,492
Florida Polytechnic U.	574	1,269	1,725	2,260	2,391	459	706	1,172	939
John Carroll U.	575	374	738	2,083	2,378	324	529	916	1,052
Savannah State U.	576	1,804	1,888	1,706	2,376	1,804	1,881	1,675	2,376
Mount Holyoke C.	577	2,026	2,112	2,533	2,372	1,539	1,511	1,612	1,394
U. of the Pacific	578	1,371	1,835	1,972	2,362	1,106	1,351	1,300	1,510
Touro U., California	579	3,489	2,561	2,877	2,356	1,377	964	1,279	923
Western Carolina U.	580	2,847	2,783	2,543	2,333	1,697	1,727	1,600	1,651
Morehead State U.	581	1,754	2,880	2,658	2,295	1,727	2,086	1,718	1,029
Union C., Schenectady	582	1,396	1,479	1,881	2,263	976	750	729	1,288
Utah Valley U.	583	1,154	1,895	2,015	2,254	1,028	1,280	1,671	1,306
Stockton U.	584	1,246	1,657	2,386	2,253	486	728	688	701
Manhattan C.	585	1,864	1,641	1,250	2,184	397	440	422	1,131
Colorado C.	586	5,467	3,646	2,498	2,178	3,725	1,371	611	389
U. Puerto Rico, Cayey	587	1,881	1,390	1,519	2,173	1,202	757	733	1,259
Alaska Pacific U.	588	1,036	1,607	1,823	2,168	189	581	627	1,183
California Baptist U.	589	ne	ne	554	2,148	ne	ne	0	0
Emerson C.	590	581	581	665	2,111	198	122	133	87
Bates C.	591	2,620	2,468	2,118	2,066	2,079	1,785	1,455	909



Table 6. Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2024 total R&D expenditures: FYs 2021–24

(Dollars in thousands)

Institution	Rank	Total					Federally financed				
		2021	2022	2023	2024		2021	2022	2023	2024	
U.S. Coast Guard Academy	592	155	1,019	689	2,051		154	898	278	289	
Ferris State U.	593	853	1,929	1,915	2,046		565	549	1,430	1,103	
U. Michigan, Flint	594	752	933	1,243	2,023		113	138	258	627	
Lipscomb U.	595	321	1,251	1,946	2,011		222	283	309	245	
Nevada State U.	596	1,014	1,191	1,744	1,989		1,012	1,167	1,711	1,989	
Hobart and William Smith Colleges	597	1,941	3,228	2,373	1,984		758	1,264	1,019	767	
Marshall B. Ketchum U.	598	1,351	i 1,559	i 1,777	i 1,950	i	343	i 383	i 433	i 457	i
Macalester C.	599	1,280	1,691	1,935	1,948		617	943	1,094	859	
U. Hartford	600	1,252	1,090	1,533	1,944		766	886	1,269	1,601	
SUNY, C. Brockport	601	1,114	1,500	1,877	1,932		500	751	813	889	
U. Puerto Rico, Humacao	601	1,321	1,448	2,074	1,932		1,137	1,160	1,822	1,759	
Northern Michigan U.	603	1,364	1,888	1,871	1,931		366	571	560	752	
Oberlin C.	604	776	1,036	1,408	1,926		505	492	880	1,142	
Southern Utah U.	605	773	846	1,259	1,897		650	603	990	1,331	
Erikson Institute	606	1,723	2,068	2,414	1,889		772	815	1,245	904	
Heidelberg U.	607	1,725	1,184	1,254	1,876		308	262	197	241	
Norwich U.	608	890	1,405	1,637	1,875		588	940	1,366	1,611	
Colorado State U., Pueblo	609	2,990	3,117	1,624	1,835	i	1,508	1,278	952	1,072	i
SUNY, Geneseo	610	2,070	2,091	1,958	1,820		1,273	1,564	1,292	1,062	
Franklin W. Olin C. of Engineering	611	1,627	2,554	2,450	1,819		636	809	641	595	
Claflin U.	612	1,015	1,179	1,418	1,816		1,005	1,179	1,418	1,816	
U. North Georgia	613	1,415	1,734	1,643	1,805		497	734	477	589	
United Tribes Technical C.	614	441	1,270	1,387	1,800		405	869	1,337	1,757	
Babson C.	615	1,286	1,825	1,957	1,783		0	45	224	351	
Biola U.	616	3,003	i 3,260	1,461	1,761		0	i 0	0	0	
Lincoln Memorial U.	617	ne	1,330	1,641	1,756		ne	0	2	6	
Andrews U.	618	802	1,043	1,255	1,751		256	295	445	638	
Dickinson C.	619	767	798	1,584	1,743		305	238	700	707	
Texas A&M U.-Central Texas	620	814	894	951	1,726		653	788	906	1,710	
Pratt Institute	621	2,547	2,325	1,558	1,709	i	294	228	50	53	i
U. Portland	622	718	811	986	1,698		90	133	251	671	
Arcadia U.	623	889	1,488	1,321	1,692		371	747	772	955	
U. Wisconsin-Platteville	624	1,144	i 1,349	i 1,481	i 1,674	i	353	i 435	i 465	i 523	i
U. Ana G. Mendez, Gurabo	625	1,574	1,419	2,132	1,660		926	1,407	2,132	1,660	
Saint John's U.	626	1,125	i 1,298	i 1,479	i 1,623	i	0	i 0	i 0	i 0	i
U. South Carolina, Aiken	627	2,042	2,595	2,250	1,609		1,884	857	782	1,183	
Hartford International U. for Religion and Peace	628	512	1,105	1,485	1,599	i	0	0	0	0	i



Table 6. Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2024 total R&D expenditures: FYs 2021–24

(Dollars in thousands)

Institution	Rank	Total								Federally financed							
		2021		2022		2023		2024		2021		2022		2023		2024	
Liberty U.	629	937		1,736		1,900		1,597		120		897		532		548	
Northland C.	630	1,096	i	1,265	i	1,442	i	1,582	i	697	i	778	i	880	i	929	i
Pennsylvania State U., Altoona	631	678		1,296		1,215		1,572		225		222		297		448	
St. Edward's U.	632	9,527		3,393		1,334		1,570		7,600		1,940		315		141	
Eckerd C.	633	367		596		1,599		1,558		139		201		632		369	
C. of Saint Benedict	634	1,064	i	1,228	i	1,400	i	1,536	i	46	i	51	i	58	i	61	i
U. Hawaii, Maui C.	635	967		1,147		1,376		1,518		951		1,087		1,234		1,443	
CUNY, York C.	636	1,133		1,912		1,711		1,515		922		1,659		1,504		1,318	
St. Olaf C.	637	816		1,532		1,724		1,500		271		726		933		796	
West Virginia School of Osteopathic Medicine	638	1,255		1,329		1,410	i	1,491		423		468		405	i	342	
Drake U.	639	1,488		1,691		1,724		1,485		1,016		1,211		954		936	
Saint Mary's U. Minnesota	640	640		889		789		1,480		538		638		573		822	
Willamette U.	641	1,817		2,183		1,542		1,470		896		791		490		416	
Kenyon C.	642	1,500		1,330		1,371		1,466		1,022		1,021		1,092		1,069	
National U. of Natural Medicine	642	850		1,013		1,336		1,466	i	523		685		862		910	i
SUNY, C. Plattsburgh	644	1,280		1,043		1,722		1,465		824		584		1,121		893	
U. Virginia's C. Wise	645	3,310		2,628		1,223		1,464		1,307		786		447		1,207	
New C. Florida	646	960		1,252		1,080		1,459		92		61		146		296	
U. Maine Farmington	647	996	i	1,174	i	1,289	i	1,457	i	699	i	862	i	922	i	1,038	i
Wheaton C., Wheaton	648	729		1,784		2,403		1,445		148		448		428		182	
Adelphi U.	649	342		377		495		1,435		274		316		430		622	
Eastern Kentucky U.	649	986		1,089		1,446		1,435		530		551		798		871	
U. Scranton	649	630		1,207		1,169		1,435		394		892		866		1,109	
Eastern Connecticut State U.	652	1,646		1,734		1,449		1,420		108		126		210		197	
Roosevelt U.	653	ne		ne		ne		1,418		ne		ne		ne		614	
Robert Morris U.	654	ne		1,277	i	1,419		1,412		ne		605	i	664		706	
U. North Carolina, general administration	655	4,024		3,522		5,735		1,403		408		369		0		0	
Scripps C.	656	150	i	ne		ne		1,398		73	i	ne		ne		484	
Graduate School of the Stowers Institute for Medical Research	657	555		780		666		1,371		0		0		0		0	
Loyola U., Maryland	658	628		866		1,110		1,362		339		206		544		820	
U. of Mary Washington	659	1,123		1,229		1,115		1,333		485		501		406		610	
Butler U.	660	1,071		1,691		1,396		1,313		741		1,227		1,077		1,004	
C. Wooster	661	1,396	i	1,717		2,209		1,296		510	i	737		594		390	
Radford U.	662	832		1,056		1,315		1,291		253		161		109		84	
Metropolitan State U. of Denver	663	416		666		651		1,282		263		261		390		1,043	
Midwestern State U.	664	882		886		1,027		1,261		515		416		491		565	
Bluefield State U.	665	506		642		987		1,258		501		506		574		903	

Table 6. Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2024 total R&D expenditures: FYs 2021–24

(Dollars in thousands)

Institution	Rank	Total								Federally financed							
		2021		2022		2023		2024		2021		2022		2023		2024	
Hult International Business School	666	953	i	1,043	i	1,159	i	1,248	i	466	i	506	i	555	i	598	i
U. Puget Sound	666	1,233		1,051		1,613		1,248		591		780		1,300		1,102	
Eastern Illinois U.	668	529		553		869		1,242		289		320		413		639	
SUNY, Polytechnic Institute	669	465,273		413,763		284,677		1,234		25,427		32,396		34,393		707	
Weber State U.	670	822		813		1,026		1,217		423		500		759		827	
California Lutheran U.	671	1,129		627		1,279		1,201		518		298		490		181	
Western New England U.	671	1,973		2,052		1,115		1,201	i	781		648		538		579	i
American Samoa Community C.	673	815		941	i	1,067	i	1,195		815		931	i	1,047	i	1,164	
SUNY, Potsdam	673	540		622		904		1,195		433		454		682		961	
Pennsylvania State U., Berks	675	382		564		640		1,187		293		507		550		994	
Concord U.	676	ne		ne		807		1,178		ne		ne		756		1,161	
U. South Carolina, Beaufort	677	976		1,041		1,466		1,177		464		440		889		615	
Roanoke C.	678	738		955		932		1,173		10		3		16		5	
Illinois C. of Optometry	679	490		831		1,324		1,158		13		46		19		5	
Juniata C.	680	380		545		1,177		1,155		229		442		1,012		939	
Gettysburg C.	681	648		1,030		1,099		1,154		268		333		517		562	
SUNY, Cobleskill	682	1,106		1,211		2,566		1,149		243		379		730		805	
La Salle U.	683	829		917		1,045	i	1,147	i	21		0		0	i	0	i
Indiana State U.	684	1,042		1,354		1,327		1,138		582		894		980		838	
Montana State U., Billings	685	522		685		870		1,135		429		518		710		856	
Southern C. of Optometry	686	ne		ne		288		1,125		ne		ne		5		10	
Nicholls State U.	687	551		687		1,259		1,120		182		301		624		558	
Albany C. of Pharmacy and Health Sciences	688	3,687		2,276		1,695	i	1,113		1,900		1,110		844	i	578	
Denison U.	689	786	i	845		1,012		1,110	i	609	i	645		589		622	i
Connecticut C.	690	1,244		1,875		1,440		1,096		439		620		648		466	
Louisiana State U., Shreveport	691	462		723		725		1,090		273		568		401		735	
Elizabeth City State U.	692	1,717		1,934		1,641		1,078		1,603		1,667		1,093		642	
Indiana U., South Bend	693	898		1,075		1,593		1,071		337		297		420		250	
CUNY, Medgar Evers C.	694	694		595		881		1,070		470		380		266		471	
Bradley U.	695	416		240		301		1,066		101		88		115		730	
Aaniih Nakoda C.	696	ne		864		1,226		1,045		ne		864		1,226		1,045	
Southern Oregon U.	697	534		447		1,092		1,023		312		135		612		749	
Gonzaga U.	698	212		640		535		1,022		107		226		254		518	
Lake Erie C. of Osteopathic Medicine	699	502		484		517		1,019		0		0		0		0	
Ursinus C.	700	835		1,044		1,150		1,015		682		743		942		940	
St. Bonaventure U.	701	378		642		1,037		1,003		215		386		554		646	
High Point U.	702	ne		ne		ne		1,000	i	ne		ne		ne		565	i

Table 6. Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2024 total R&D expenditures: FYs 2021–24

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2021	2022	2023	2024	2021	2022	2023	2024
U. Tampa	703	551	886	883	994	124	418	121	288
Stetson U.	704	611	580	513	985	304	379	452	836
Loyola U., New Orleans	705	476	911	419	982	93	29	37	125
Central Connecticut State U.	706	1,314	1,035	934	966	663	511	393	457
Bridgewater State U.	707	522	954	750	941	363	821	449	526
Johnson C. Smith U.	708	2,578	i 2,685	1,602	936	2,049	i 1,868	1,554	915
Plymouth State U.	709	2,318	669	1,361	934	421	571	877	805
Augsburg U.	710	815	815	917	925	408	370	485	410
U. Minnesota, Rochester	711	730	784	1,192	921	103	93	32	0
Valparaiso U.	712	925	688	1,036	918	805	572	920	799
Minerva U.	713	ne	ne	ne	916	ne	ne	ne	0
U. North Texas, Dallas	714	ne	ne	1,293	911	ne	ne	50	26
Northeastern State U.	715	279	351	187	908	179	208	121	762
U. Wisconsin-Stout	716	406	367	512	906	27	61	138	443
Angelo State U.	717	943	740	946	903	20	85	140	224
U. Central Missouri	718	495	642	715	900	296	399	459	763
Wilkes U.	719	372	423	682	894	109	134	203	183
Geisinger Commonwealth School of Medicine	720	ne	ne	500	886	ne	ne	15	12
U. Puerto Rico, Ponce	721	580	1,369	659	875	427	1,089	510	787
West Liberty U.	722	738	815	910	871	406	498	490	486
Niagara U.	723	509	440	661	869	34	54	10	404
Kalamazoo C.	724	600	i 692	i 789	i 866	i 225	i 251	i 284	i 300
Gustavus Adolphus C.	725	953	1,136	969	860	445	468	467	318
Xavier U.	725	ne	ne	ne	860	ne	ne	ne	626
Baldwin Wallace U.	727	210	167	463	844	20	7	47	380
Keene State C.	727	919	770	1,071	844	894	770	834	745
Augustana U.	729	1,013	724	757	831	i 1,013	724	757	800
Gannon U.	730	972	569	889	829	61	150	199	71
St. Catherine U.	731	1,157	933	1,060	824	270	300	673	517
Iona U.	732	411	650	649	817	411	650	649	817
Simmons U.	733	487	668	620	814	466	383	254	340
C. of the Holy Cross	734	445	688	893	813	425	653	691	539
William Paterson U.	735	7,867	7,574	533	808	1,893	1,896	168	537
Southwestern U.	736	408	520	575	804	11	11	52	189
Lawrence U.	737	536	671	794	803	248	286	327	220
Northwestern State U. Louisiana	738	1,663	1,848	1,323	i 798	738	742	680	i 618
Alverno C.	739	215	228	263	796	0	0	0	796

Table 6. Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2024 total R&D expenditures: FYs 2021–24

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2021	2022	2023	2024	2021	2022	2023	2024
Polytechnic U. Puerto Rico	739	821	620	1,039	796	821	620	1,039	796
Fairleigh Dickinson U.	741	318	225	498	793	248	222	456	787
Saint Michael's C.	742	876	754	754	790	744	485	598	637
Ithaca C.	743	1,030	1,000	861	787	685	703	453	399
Auburn U., Montgomery	744	442	698	1,281	779	201	464	864	446
San Juan Bautista School of Medicine	745	598	662	740	778	448	466	547	566
Fort Hays State U.	746	800	641	732	774	482	342	361	497
Sewanee: U. of the South	747	668	547	592	771	45	6	17	39
Rollins C.	748	533	532	995	759	165	189	415	288
Siena C.	749	923	675	764	755	265	291	303	361
Francis Marion U.	750	207	402	308	754	174	289	228	280
Eastern New Mexico U., Portales	751	355	499	394	753	323	466	343	664
Widener U., Chester	752	417	600	804	752	351	474	636	517
Palmer C. of Chiropractic, Davenport	753	2,233	2,050	1,725	750	1,733	1,550	1,500	500
Bethune-Cookman U.	754	928	707	682	747	715	494	650	747
Regis U.	754	476	744	779	747	328	494	702	599
U. Bridgeport	754	ne	ne	542	747	ne	ne	251	280
Coe C.	757	538	614	802	734	330	401	562	542
Pennsylvania State U., Abington	757	369	323	320	734	279	184	132	180
Pennsylvania Western U.	759	na	na	508	726	na	na	460	678
Allegheny C.	760	ne	ne	532	720	ne	ne	192	362
Pennsylvania State U., Great Valley School of Graduate Professional Studies	761	927	432	712	716	457	251	343	110
Point Loma Nazarene U.	762	505	565	482	708	126	1	34	17
Touro U., Nevada	762	ne	697	853	708	ne	72	131	63
Indiana Wesleyan U.	764	878	722	852	707	216	187	275	276
U. West Georgia	765	396	i 309	574	705	197	i 174	172	447
Evergreen State C.	766	783	586	791	704	256	119	45	129
Utica U.	767	466	562	812	703	0	0	0	90
Susquehanna U.	768	360	333	499	700	20	31	14	210
Lincoln U.	769	ne	ne	628	695	ne	ne	430	584
Ohio Wesleyan U.	770	404	267	323	682	275	97	174	517
Berry C.	771	371	541	1,046	670	332	453	993	534
Salve Regina U.	771	624	813	732	670	624	813	732	562
SUNY, Old Westbury	773	347	i 428	634	663	206	i 243	389	542
East Central U.	774	242	480	483	662	216	447	447	590
SUNY, Farmingdale State C.	775	606	611	631	658	180	185	180	305
Kansas City U.	776	ne	ne	274	653	ne	ne	166	425

Table 6. Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2024 total R&D expenditures: FYs 2021–24

(Dollars in thousands)

Institution	Rank	Total						Federally financed					
		2021	2022	2023	2024	2021	2022	2023	2024	2021	2022	2023	2024
Salish Kootenai C.	777	596	782	553	647	596	782	553	647				
Saint Francis U.	778	872	533	592	637	199	221	242	261				
Georgia Gwinnett C.	779	489	367	249	633	372	249	216	596				
Oakwood U.	780	474	340	427	623	463	329	371	569				
Lake Forest C.	781	267	493	562	617	0	37	42	44				
Fairmont State U.	782	ne	ne	ne	610	ne	ne	ne	610				
Oglala Lakota C.	783	473	424	588	594	473	424	588	594				
U. Minnesota, Morris	784	855	805	698	593	162	150	87	76				
Barry U.	785	343	367	469	586	40	65	98	123				
Ramapo C. New Jersey	786	408	365	346	583	373	319	284	523				
Emporia State U.	787	586	510	816	577	312	291	589	317				
Whitworth U.	788	403	438	473	571	91	153	216	206				
Jacksonville State U.	789	275	197	538	569	245	113	423	381				
St. Norbert C.	790	412	741	629	557	177	474	514	352				
Truman State U.	791	237	327	318	551	46	73	29	274				
Sonoran U. Health Sciences	792	ne	520	600	550	ne	0	0	0				
Columbus State U.	793	206	271	276	549	77	228	210	411				
Truckee Meadows Community C.	794	ne	334	403	548	ne	334	403	548				
Colorado Mesa U.	795	823	802	443	541	664	676	290	390				
Salus U.	796	677	680	663	540	414	417	396	420				
Dordt U.	797	696	679	712	533	594	552	581	475				
Elmhurst U.	798	464	676	613	526	459	676	224	31				
Rider U.	799	322	353	522	524	126	200	364	261				
Canisius U.	800	1,036	1,160	905	521	597	454	411	422				
Luther C.	800	289	212	217	521	95	45	71	51				
Southwestern Oklahoma State U.	802	614	531	582	512	419	303	300	277				
U. Puerto Rico, Aguadilla	802	639	823	741	512	425	617	700	502				
Palo Alto U.	804	428	426	473	509	207	205	225	242				
McNeese State U.	805	664	432	435	502	17	22	32	36				
Ouachita Baptist U.	806	217	309	378	501	217	309	378	501				
U. Houston-Victoria	806	ne	ne	475	501	ne	ne	419	501				
Wabash C.	808	ne	465	370	494	ne	304	210	302				
Western Connecticut State U.	809	353	399	424	490	201	221	144	153				
U. Minnesota, Crookston	810	ne	ne	358	489	ne	ne	0	0				
Grambling State U.	811	2,124	1,287	449	486	731	554	377	410				
Moravian U.	811	255	386	516	486	90	185	192	333				
Hendrix C.	813	651	709	587	484	584	629	538	435				

Table 6. Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2024 total R&D expenditures: FYs 2021–24

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2021	2022	2023	2024	2021	2022	2023	2024
Earlham C.	814	287	405	815	478	8	0	0	15
Arkansas Tech U.	815	751	921	668	474	632	737	393	303
MCPHS U.	816	346	290	426	468	85	80	166	242
Lewis-Clark State C.	817	401	582	468	463	349	550	468	463
U. Wisconsin-Whitewater	817	760	713	536	463	623	445	280	137
Benedictine U.	819	ne	150	489	461	ne	64	338	276
Bryant U.	820	347	534	558	459	280	394	436	358
SUNY, New Paltz	820	329	308	392	459	114	139	265	235
Shaw U.	822	ne	259	412	452	ne	168	162	171
Northwest Nazarene U.	823	442	509	456	451	307	356	302	243
Kutztown U. Pennsylvania	824	292	450	722	446	159	351	584	289
Wheaton C., Norton	825	186	ne	ne	445	186	ne	ne	217
Pitzer C.	826	225	287	330	443	0	0	0	84
Cornell C.	827	464	409	563	440	264	116	72	107
Northern New Mexico C.	828	350	239	264	432	350	239	264	432
Pacific Lutheran U.	829	370	495	347	429	147	170	229	201
Westmont C.	830	295	340	i 388	i 426	i 180	201	i 227	i 240
U. Puerto Rico, Arecibo	831	ne	ne	370	i 418	ne	ne	304	i 342
Central Wyoming C.	832	ne	504	489	415	ne	504	489	415
St. Mary's C. Maryland	832	349	1,063	205	415	124	599	152	288
Muhlenberg C.	834	288	447	431	i 414	28	27	51	i 76
Minnesota State U., Moorhead	835	462	420	i 378	409	i 222	124	i 26	28
U. Ana G. Mendez, Carolina	836	602	645	193	407	489	645	193	407
Southern California U. of Health Sciences	837	418	246	378	406	360	204	377	397
Augustana C.	838	271	353	351	405	116	158	159	254
Albizu U.	839	428	ne	ne	403	0	ne	ne	0
A. T. Still U. of Health Sciences	840	448	517	345	401	257	281	197	310
Bryn Athyn C.	841	316	317	361	i 396	i 0	0	0	i 0
Stonehill C.	842	695	772	542	394	526	425	283	67
Clayton State U.	843	616	600	732	393	532	498	642	387
American C. of Financial Services	844	ne	338	376	392	ne	0	0	0
Coker U.	845	ne	ne	398	391	ne	ne	379	278
SUNY, C. Cortland	846	381	530	715	388	340	396	507	103
Fond du Lac Tribal and Community C.	847	ne	ne	ne	387	ne	ne	ne	387
Northwest Missouri State U.	847	190	231	360	387	100	100	108	93
Minot State U.	849	512	187	412	384	439	143	314	347
DePauw U.	850	304	175	430	373	89	48	102	100

Table 6. Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2024 total R&D expenditures: FYs 2021–24

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2021	2022	2023	2024	2021	2022	2023	2024
Indiana U., Southeast	850	591	523	421	373	64	13	41	18
Converse U.	852	294	254	205	371	241	209	164	286
Molloy C.	853	ne	ne	ne	361	ne	ne	ne	216
Wittenberg U.	854	445	508	325	357	228	331	162	171
Transylvania U.	855	ne	ne	ne	353	ne	ne	ne	93
Life Chiropractic C.-West	856	ne	350	350	350	ne	0	0	0
Slippery Rock U. Pennsylvania	857	295	323	583	348	50	11	200	67
Doane U.	858	699	502	374	345	596	430	299	326
Austin C.	859	302	349	388	344	85	110	121	54
Indiana U., Northwest	860	553	495	253	342	273	203	33	119
Arkansas C. of Health Education	861	672	301	277	327	69	46	104	5
Gordon C.	862	ne	ne	ne	317	ne	ne	ne	134
U. Maine, Augusta	863	ne	ne	317	312	ne	ne	18	23
Valdosta State U.	863	423	262	225	312	123	47	67	97
Hamline U.	865	493	162	241	310	320	35	109	226
Marist C.	866	ne	ne	386	308	ne	ne	188	149
Pontifical Catholic U. Puerto Rico, Ponce	866	350	334	478	308	186	97	167	98
Commonwealth U. of Pennsylvania	868	ne	ne	304	306	ne	ne	162	126
Coppin State U.	869	299	398	357	304	212	275	209	151
West Virginia U., Institute of Technology	869	ne	ne	229	304	ne	ne	94	176
Pennsylvania State U., Wilkes-Barre	871	250	267	335	301	249	267	335	301
Rhode Island C.	871	10,990	11,127	839	301	4,894	5,372	786	298
National U. of Health Sciences	873	ne	ne	ne	300	ne	ne	ne	0
Alabama C., Osteopathic Medicine	874	184	236	311	296	17	34	0	0
Taylor U.	875	214	204	346	292	9	16	11	45
Indiana U., Kokomo	876	441	490	429	288	27	75	31	0
Dickinson State U.	877	ne	ne	ne	284	ne	ne	ne	70
Jacksonville U.	877	460	162	200	284	0	0	0	0
California U. of Science and Medicine	879	ne	ne	ne	280	ne	ne	ne	0
Centre C.	879	265	314	232	280	136	173	204	264
SUNY, Oneonta	881	214	288	305	275	24	3	3	34
Bard C.	882	248	255	263	271	67	69	71	73
Southern Arkansas U.	883	611	281	427	263	422	113	252	76
Pacific Northwest U. of Health Sciences	884	ne	ne	307	262	ne	ne	200	157
Washington and Lee U.	885	256	249	243	259	163	179	224	229
Longwood U.	886	544	249	838	256	412	47	642	214
Mayville State U.	887	634	ne	ne	251	513	ne	ne	248

Table 6. Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2024 total R&D expenditures: FYs 2021–24

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2021	2022	2023	2024	2021	2022	2023	2024
U. Tennessee, Martin	888	199	162	ne	250	22	61	ne	88
Rogers State U.	889	ne	ne	253	245	ne	ne	81	81
Fuller Theological Seminary	890	ne	ne	271	242	ne	ne	75	69
U. North Alabama	891	539	650	442	234	331	320	332	151
Concordia C., Moorhead	892	308	291	589	233	35	32	352	52
Indiana U., East	893	ne	ne	ne	228	ne	ne	ne	53
Life U.	894	364	419	248	224	0	0	0	0
Millersville U. Pennsylvania	895	931	395	224	223	785	213	95	4
U. Ana G. Mendez, Cupey	895	739	728	746	223	598	728	746	223
SUNY, Purchase C.	897	ne	ne	ne	217	ne	ne	ne	159
Nueta Hidatsa Sahnish C.	898	ne	ne	ne	213	ne	ne	ne	213
Delta State U.	899	238	673	351	212	219	661	336	182
Metropolitan State U.	899	162 i	176 i	196 i	212 i	85 i	94 i	104 i	113 i
Oral Roberts U.	901	ne	ne	190	205 i	ne	ne	0	0 i
U. Evansville	901	284	285	336	205	144	171	190	84
Whittier C.	903	300	260 i	220	202	0	5 i	11	53
Montana State U., Northern	904	372	214	292	200	148	43	207	200
U. Southern Indiana	904	161	ne	ne	200	36	ne	ne	93
LeTourneau U.	906	346	239	175	198	217	169	88	47
California State U., system office	907	ne	ne	ne	197	ne	ne	ne	197
Maryland Institute C. of Art	908	634	407	292	196	309	93	134	191
U. Lynchburg	908	150 i	164 i	182 i	196 i	86 i	93 i	102 i	110 i
C. Southern Nevada	910	335	303	210	190	327	275	201	182
Carthage C.	911	ne	ne	1,013	188	ne	ne	722	76
Eastern Mennonite U.	912	233	ne	ne	187	151	ne	ne	187
Northern State U.	912	190	305	282	187	173	174	110	115
Agnes Scott C.	914	351	433	306 i	179	152	260	202 i	144
Concordia U., Wisconsin	915	439	168	291	169	170	150	162	150
Goucher C.	916	255	ne	ne	166	165	ne	ne	92
Antioch U.	917	ne	263	225	164	ne	187	112	107
Manchester U.	918	266	303	249	163	134	100	46	0
Cooper Union	919	545	501	332 i	162	233	202	173 i	144
Mississippi Valley State U.	920	391	344	233	161	379	330	220	147
William Carey U.	920	ne	ne	170	161	ne	ne	16	38
California State U., Maritime Academy	922	2,799	526	305	152	548	192	220	86
Fitchburg State U.	923	ne	ne	ne	150 i	ne	ne	ne	92 i
Jarvis Christian U.	923	ne	ne	ne	150 i	ne	ne	ne	65 i



Table 6. Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2024 total R&D expenditures: FYs 2021–24

(Dollars in thousands)

Institution	Rank	Total						Federally financed													
		2021		2022		2023		2024		2021		2022		2023		2024					
Johnson and Wales U., Providence	923	ne		ne		ne		150		i		ne		ne		ne		85		i	
All other surveyed institutions	-	596,428		590,977		11,654		0				267,885		259,489		4,662		0			

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$2,549,821 thousand in total and \$2,478,980 thousand in federally financed R&D expenditures in FY 2024.

<sup>b</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>c</sup> The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

<sup>d</sup> The University of Oklahoma includes expenditures from the University of Oklahoma, Tulsa and University of Oklahoma, Norman and Health Science Center campuses. Due to a reorganization, the campuses began reporting as one unit in FY 2024.

<sup>e</sup> Touro University, New York includes the Lovelace Biomedical Research Institute. In FY 2023, the Lovelace Biomedical Research Institute joined the Touro University System.

**Note(s):**

Institutions reporting zero expenditures in ranked total for FY 2024 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 5](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

**Table 7. Total and federally financed higher education R&D expenditures at institutions in the standard form survey population, by type of R&D: FYs 1953–2024**

(Dollars in millions)

Fiscal year	Total					Federal				
	All R&D expenditures	Basic research		Applied research and experimental development		All federal R&D expenditures	Basic research		Applied research and experimental development	
		Amount	Percent	Amount	Percent		Amount	Percent	Amount	Percent
Total, S&E <sup>a</sup>										
1953	255	110	43.1	145	56.9	138	na	na	na	na
1954	290	136	46.9	154	53.1	160	na	na	na	na
1955	312	159	51.0	153	49.0	169	na	na	na	na
1956	372	200	53.8	172	46.2	213	na	na	na	na
1957	410	240	58.5	170	41.5	229	na	na	na	na
1958	456	281	61.6	175	38.4	254	na	na	na	na
1959	526	343	65.2	183	34.8	306	na	na	na	na
1960	646	433	67.0	213	33.0	405	na	na	na	na
1961	763	536	70.2	227	29.8	500	na	na	na	na
1962	904	659	72.9	245	27.1	613	na	na	na	na
1963	1,081	814	75.3	267	24.7	760	na	na	na	na
1964	1,275	1,003	78.7	272	21.3	917	na	na	na	na
1965	1,474	1,138	77.2	336	22.8	1,073	na	na	na	na
1966	1,715	1,303	76.0	412	24.0	1,261	na	na	na	na
1967	1,921	1,457	75.8	464	24.2	1,409	na	na	na	na
1968	2,149	1,650	76.8	499	23.2	1,572	na	na	na	na
1969	2,225	1,711	76.9	514	23.1	1,600	na	na	na	na
1970	2,335	1,796	76.9	539	23.1	1,647	na	na	na	na
1971	2,500	1,914	76.6	586	23.4	1,724	na	na	na	na
1972	2,630	2,022	76.9	608	23.1	1,795	1,420	79.1	375	20.9
1973	2,884	2,053	71.2	831	28.8	1,985	1,454	73.2	531	26.8
1974	3,023	2,154	71.3	869	28.7	2,032	1,523	74.9	509	25.1
1975	3,409	2,410	70.7	999	29.3	2,288	1,695	74.1	593	25.9
1976	3,729	2,549	68.4	1,180	31.6	2,512	1,841	73.3	671	26.7
1977	4,067	2,800	68.8	1,267	31.2	2,726	2,007	73.6	720	26.4
1978 <sup>b</sup>	4,625	na	na	na	na	3,059	na	na	na	na
1979	5,366	3,619	67.4	1,747	32.6	3,598	2,577	71.6	1,022	28.4
1980	6,063	4,036	66.6	2,026	33.4	4,098	2,861	69.8	1,237	30.2
1981	6,847	4,594	67.1	2,253	32.9	4,571	3,260	71.3	1,311	28.7
1982	7,324	4,879	66.6	2,445	33.4	4,768	3,402	71.3	1,367	28.7
1983	7,882	5,303	67.3	2,579	32.7	4,989	3,547	71.1	1,442	28.9
1984	8,620	5,733	66.5	2,887	33.5	5,431	3,830	70.5	1,601	29.5
1985	9,687	6,556	67.7	3,131	32.3	6,064	4,343	71.6	1,722	28.4
1986	10,928	7,492	68.6	3,435	31.4	6,712	4,868	72.5	1,844	27.5
1987	12,153	8,393	69.1	3,760	30.9	7,343	5,375	73.2	1,968	26.8
1988	13,463	8,894	66.1	4,569	33.9	8,193	5,678	69.3	2,515	30.7
1989	14,979	9,793	65.4	5,186	34.6	8,993	6,195	68.9	2,797	31.1
1990	16,290	10,645	65.3	5,645	34.7	9,640	6,649	69.0	2,991	31.0
1991	17,589	11,607	66.0	5,982	34.0	10,238	7,128	69.6	3,110	30.4
1992	18,821	12,516	66.5	6,305	33.5	11,095	7,718	69.6	3,377	30.4
1993	19,954	13,303	66.7	6,651	33.3	11,960	8,398	70.2	3,562	29.8
1994	21,035	13,989	66.5	7,046	33.5	12,654	8,878	70.2	3,775	29.8
1995	22,179	14,812	66.8	7,367	33.2	13,337	9,399	70.5	3,938	29.5
1996	23,055	15,481	67.1	7,574	32.9	13,847	9,868	71.3	3,978	28.7
1997	24,380	16,602	68.1	7,778	31.9	14,321	10,316	72.0	4,006	28.0
1998	25,867	19,058	73.7	6,810	26.3	15,159	11,862	78.2	3,298	21.8
1999	27,544	20,450	74.2	7,094	25.8	16,112	12,746	79.1	3,365	20.9

**Table 7. Total and federally financed higher education R&D expenditures at institutions in the standard form survey population, by type of R&D: FYs 1953–2024**

(Dollars in millions)

Fiscal year	Total					Federal				
	All R&D expenditures	Basic research		Applied research and experimental development		All federal R&D expenditures	Basic research		Applied research and experimental development	
		Amount	Percent	Amount	Percent		Amount	Percent	Amount	Percent
2000	30,084	22,547	74.9	7,537	25.1	17,548	13,936	79.4	3,611	20.6
2001	32,801	24,392	74.4	8,409	25.6	19,227	15,038	78.2	4,188	21.8
2002	36,383	27,363	75.2	9,019	24.8	21,856	17,262	79.0	4,593	21.0
2003	40,077	30,105	75.1	9,973	24.9	24,753	19,627	79.3	5,126	20.7
2004	43,238	31,957	73.9	11,281	26.1	27,627	21,353	77.3	6,274	22.7
2005	45,774	34,353	75.0	11,421	25.0	29,187	22,885	78.4	6,302	21.6
2006	47,759	36,082	75.5	11,677	24.5	30,132	23,697	78.6	6,434	21.4
2007	49,495	37,726	76.2	11,769	23.8	30,430	24,001	78.9	6,429	21.1
2008	51,872	39,322	75.8	12,550	24.2	31,272	24,430	78.1	6,842	21.9
2009	54,863	40,913	74.6	13,950	25.4	32,576	25,025	76.8	7,551	23.2
Total non-S&E and S&E <sup>a</sup>										
2010	61,287	40,894	66.7	20,393	33.3	37,478	25,668	68.5	11,809	31.5
2011	65,274	43,423	66.5	21,851	33.5	40,768	27,679	67.9	13,089	32.1
2012	65,730	43,110	65.6	22,620	34.4	40,142	26,871	66.9	13,270	33.1
2013	66,979	43,942	65.6	23,036	34.4	39,445	26,417	67.0	13,029	33.0
2014	67,161	43,540	64.8	23,621	35.2	37,961	25,209	66.4	12,753	33.6
2015	68,521	44,331	64.7	24,190	35.3	37,846	25,236	66.7	12,611	33.3
2016	71,737	45,653	63.6	26,084	36.4	38,788	25,307	65.2	13,481	34.8
2017	75,150	47,156	62.7	27,995	37.3	40,248	26,028	64.7	14,219	35.3
2018	79,027	49,804	63.0	29,223	37.0	41,860	27,056	64.6	14,804	35.4
2019	83,490	52,635	63.0	30,856	37.0	44,460	28,787	64.7	15,673	35.3
2020	86,309	54,287	62.9	32,022	37.1	46,109	29,449	63.9	16,660	36.1
2021	89,706	56,153	62.6	33,553	37.4	49,121	31,299	63.7	17,822	36.3
2022	97,677	61,659	63.1	36,018	36.9	53,975	34,680	64.3	19,295	35.7
2023	108,697	68,365	62.9	40,331	37.1	59,610	38,131	64.0	21,479	36.0
2024	117,554	73,766	62.8	43,788	37.2	64,640	41,180	63.7	23,460	36.3

na = not applicable; separate data for federally financed basic research, applied research, and experimental development were not collected for these years.

S&amp;E = science and engineering.

<sup>a</sup> Totals for FYs 1953–2009 represent R&D expenditures in S&E fields only. Beginning in FY 2010, totals and type of R&D data include R&D expenditures in S&E fields and non-S&E fields.<sup>b</sup> FY 1978 data are estimated based on data collected from doctorate-granting institutions only.**Note(s):**

Type of R&D estimation procedure was revised for FY 1998 and later years; hence, these data are not directly comparable to data for FY 1997 and earlier years. Prior to FY 2010, R&D expenditures by type of R&D were based on percentage estimates of basic research provided by universities and colleges. Beginning in FY 2010, institutions were asked for dollar amounts of federally funded and nonfederally funded R&D expenditures for basic research, applied research, and experimental development. Because of rounding, detail may not add to total.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

Table 8. Higher education R&D expenditures at institutions in the standard form survey population, by source of funds and type of R&D: FYs 2010–24

(Dollars in thousands)

Fiscal year	Total				Federal				Nonfederal			
	All R&D expenditures	Basic research	Applied research	Experimental development	All R&D expenditures	Basic research	Applied research	Experimental development	All R&D expenditures	Basic research	Applied research	Experimental development
2010	61,286,610	40,893,751	15,132,598	5,260,261	37,477,582	25,668,214	9,122,054	2,687,314	23,809,028	15,225,537	6,010,544	2,572,947
2011	65,274,393	43,423,354	16,317,198	5,533,841	40,768,251	27,678,913	10,212,275	2,877,063	24,506,142	15,744,441	6,104,923	2,656,778
2012	65,730,064	43,109,785	16,784,299	5,835,980	40,141,676	26,871,208	10,236,397	3,034,071	25,588,388	16,238,577	6,547,902	2,801,909
2013	66,978,647	43,942,168	16,917,358	6,119,121	39,445,414	26,416,509	10,029,449	2,999,456	27,533,233	17,525,659	6,887,909	3,119,665
2014	67,161,428	43,540,359	17,340,799	6,280,270	37,961,118	25,208,521	9,760,015	2,992,582	29,200,310	18,331,838	7,580,784	3,287,688
2015	68,520,986	44,330,693	17,578,201	6,612,092	37,846,365	25,235,865	9,684,633	2,925,867	30,674,621	19,094,828	7,893,568	3,686,225
2016	71,737,194	45,653,202	19,424,989	6,659,003	38,787,982	25,306,858	10,559,406	2,921,718	32,949,212	20,346,344	8,865,583	3,737,285
2017	75,150,488	47,155,578	20,836,018	7,158,892	40,247,588	26,028,157	11,199,740	3,019,691	34,902,900	21,127,421	9,636,278	4,139,201
2018	79,027,030	49,804,177	21,787,466	7,435,387	41,859,934	27,056,162	11,676,264	3,127,508	37,167,096	22,748,015	10,111,202	4,307,879
2019	83,490,430	52,634,881	23,093,676	7,761,873	44,460,361	28,787,173	12,345,500	3,327,688	39,030,069	23,847,708	10,748,176	4,434,185
2020	86,308,537	54,286,778	23,909,636	8,112,123	46,108,772	29,448,684	12,857,521	3,802,567	40,199,765	24,838,094	11,052,115	4,309,556
2021	89,706,305	56,153,316	24,819,382	8,733,607	49,121,155	31,298,940	13,693,212	4,129,003	40,585,150	24,854,376	11,126,170	4,604,604
2022	97,677,440	61,659,101	26,737,461	9,280,878	53,974,981	34,679,546	14,857,581	4,437,854	43,702,459	26,979,555	11,879,880	4,843,024
2023	108,696,625	68,365,171	29,659,170	10,672,284	59,610,006	38,131,341	16,351,293	5,127,372	49,086,619	30,233,830	13,307,877	5,544,912
2024	117,554,145	73,766,372	32,043,227	11,744,546	64,639,941	41,180,431	17,884,960	5,574,550	52,914,204	32,585,941	14,158,267	6,169,996

Source(s):  
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

Table 9. Higher education R&D expenditures at institutions in the standard form survey population, by R&D field: FYs 2010–24

(Dollars in thousands)

Field	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
All R&D fields	61,286,610	65,274,393	65,730,064	66,978,647	67,161,428	68,520,986	71,737,194	75,150,488	79,027,030	83,490,430	86,308,537	89,706,305	97,677,440	108,696,625	117,554,145
Science	49,061,829	51,955,427	51,915,529	52,609,492	52,761,785	53,844,129	56,235,949	58,936,782	62,019,112	65,418,733	67,567,030	70,295,678	76,150,933	84,322,120	90,713,503
Computer and information sciences	1,638,047	1,742,486	1,822,322	2,067,876	1,927,578	1,962,058	2,079,423	2,192,291	2,397,588	2,637,121	2,924,931	2,953,932	3,201,158	3,614,760	3,955,529
Geosciences, atmospheric sciences, and ocean sciences	2,991,741	3,153,174	3,173,105	3,195,125	3,227,092	3,246,196	3,082,509	3,147,675	3,159,665	3,185,938	3,280,698	3,295,638	3,654,146	4,035,809	4,407,449
Atmospheric science and meteorology	429,354	481,275	476,730	493,385	501,517	573,913	626,676	623,519	608,045	590,386	612,497	624,278	668,852	723,777	737,245
Geological and earth sciences	1,083,969	1,142,630	1,168,995	1,163,498	1,159,067	1,113,575	997,675	1,084,138	1,131,953	1,121,272	1,158,214	1,242,415	1,348,120	1,489,293	1,688,053
Ocean sciences and marine sciences	1,021,857	1,049,630	1,025,478	1,051,425	1,071,370	1,049,567	1,097,679	1,098,384	1,061,461	1,100,775	1,137,181	1,035,365	1,212,107	1,366,607	1,497,079
Geosciences, atmospheric sciences, and ocean sciences nec	456,561	479,639	501,902	486,817	495,138	509,141	360,479	341,634	358,206	373,505	372,806	393,580	425,067	456,132	485,072
Life sciences	34,984,249	37,337,522	37,200,541	37,557,166	37,938,741	38,769,499	40,859,163	43,098,775	45,606,373	48,226,300	49,615,898	52,351,337	56,473,662	62,197,940	66,821,053
Agricultural sciences	3,011,150	3,116,840	3,300,111	3,347,692	3,381,853	3,479,616	3,287,678	3,274,608	3,307,251	3,426,776	3,625,713	3,553,345	3,936,027	4,285,578	4,802,906
Biological and biomedical sciences	10,946,456	11,855,468	11,611,928	11,679,403	11,699,720	11,704,129	13,027,574	13,723,363	14,518,082	15,391,056	15,767,001	16,570,118	18,130,185	19,519,285	20,769,747
Health sciences	19,268,085	20,398,377	20,330,436	20,453,325	20,707,633	21,298,361	22,387,269	23,990,328	25,773,636	27,265,062	27,992,213	29,856,130	31,872,168	35,724,459	38,512,622
Natural resources and conservation <sup>a</sup>	na	na	na	na	na	na	693,318	691,663	779,453	841,416	901,808	935,072	1,016,471	1,079,451	1,127,157
Life sciences nec	1,758,558	1,966,837	1,958,066	2,076,746	2,149,535	2,287,393	1,463,324	1,418,813	1,227,951	1,301,990	1,329,163	1,436,672	1,518,811	1,589,167	1,608,621
Mathematics and statistics	592,200	640,471	674,458	670,798	657,656	640,824	679,295	700,244	750,321	769,019	800,522	773,022	879,440	1,061,002	1,164,507
Physical sciences	4,621,772	4,768,816	4,710,123	4,646,766	4,613,739	4,648,585	4,876,304	5,050,104	5,232,168	5,550,678	5,672,351	5,737,313	6,167,231	6,947,353	7,456,024
Astronomy and astrophysics	573,229	583,847	706,550	558,641	566,965	626,595	621,738	648,823	668,240	734,987	780,259	740,845	813,890	966,939	1,078,915
Chemistry	1,748,465	1,783,604	1,748,852	1,703,975	1,723,214	1,757,431	1,773,336	1,791,437	1,866,078	1,965,378	1,929,263	1,996,422	2,126,685	2,301,368	2,517,853
Materials science <sup>a</sup>	na	na	na	na	na	na	172,271	227,825	254,447	259,316	253,173	285,999	286,460	320,597	348,922
Physics	1,998,732	2,108,340	1,985,983	2,097,123	2,054,772	2,037,092	2,108,936	2,155,696	2,206,619	2,327,059	2,435,133	2,463,415	2,669,290	2,967,820	3,107,027
Physical sciences nec	301,346	293,025	268,738	287,027	268,788	227,467	200,023	226,323	236,784	263,938	274,523	250,632	270,906	390,629	403,307
Psychology	1,077,655	1,159,180	1,179,340	1,128,351	1,143,065	1,183,587	1,222,998	1,246,541	1,261,429	1,328,432	1,364,875	1,329,356	1,445,922	1,642,048	1,730,944
Social sciences	1,999,942	2,063,007	2,053,838	2,172,411	2,210,266	2,315,299	2,361,489	2,554,795	2,721,841	2,805,686	2,951,839	2,828,295	3,164,661	3,623,437	3,909,953
Anthropology <sup>a</sup>	na	na	na	na	na	na	95,935	110,939	118,236	124,403	119,477	108,192	132,782	152,399	178,236
Economics	352,890	387,036	383,442	408,319	428,076	453,619	395,598	434,035	455,964	458,124	559,122	550,427	665,186	723,888	780,462
Political science and government	374,903	370,694	390,114	427,481	426,375	459,315	383,995	412,126	438,107	447,752	425,194	423,922	488,391	557,305	601,465
Sociology, demography, and population studies	419,895	433,484	461,053	482,340	504,735	524,226	503,300	551,878	608,743	610,133	594,100	553,195	616,054	734,588	768,731
Social sciences nec	852,254	871,793	819,229	854,271	851,080	878,139	982,661	1,045,817	1,100,791	1,165,274	1,253,946	1,192,559	1,262,248	1,455,257	1,581,059
Sciences nec	1,156,223	1,090,771	1,101,802	1,170,999	1,043,648	1,078,081	1,074,768	946,357	889,727	915,559	955,916	1,026,785	1,164,713	1,199,771	1,268,044
Engineering	9,325,722	10,032,590	10,284,155	10,734,000	10,971,498	11,062,848	11,367,246	11,911,326	12,363,411	13,214,302	13,702,266	14,292,584	15,662,654	17,476,575	19,271,406
Aerospace, aeronautical, and astronautical engineering	635,234	667,757	662,444	689,555	662,479	732,092	881,970	990,726	1,010,502	1,170,171	1,293,605	1,452,254	1,647,246	1,913,967	2,054,095
Bioengineering and biomedical engineering	745,277	817,389	871,920	884,426	951,058	1,003,097	1,085,842	1,220,695	1,343,578	1,450,846	1,470,154	1,560,357	1,727,097	1,893,897	2,081,887
Chemical engineering	821,163	913,905	903,615	910,225	906,471	914,313	884,190	934,540	931,045	977,586	1,001,307	1,024,238	1,108,239	1,246,926	1,409,387
Civil engineering	1,106,759	1,208,592	1,232,959	1,296,984	1,256,412	1,284,851	1,328,617	1,302,341	1,354,800	1,432,985	1,425,058	1,482,140	1,686,234	1,900,720	2,096,724
Electrical, electronic, and communications engineering	2,050,292	2,206,894	2,311,677	2,408,837	2,478,216	2,492,210	2,512,469	2,726,483	2,843,777	2,937,896	3,052,778	3,078,784	3,462,331	3,837,943	4,415,693
Industrial and manufacturing engineering <sup>a</sup>	na	na	na	na	na	na	236,679	351,085	514,776	556,355	587,061	574,212	615,574	707,413	747,870
Mechanical engineering	1,458,382	1,556,892	1,550,156	1,647,640	1,503,710	1,513,951	1,434,699	1,535,889	1,630,575	1,705,001	1,813,738	1,882,557	2,062,905	2,325,363	2,572,680
Metallurgical and materials engineering	703,332	738,892	757,968	812,231	1,202,757	1,101,599	743,980	735,699	762,686	792,373	818,672	841,720	886,659	1,039,160	1,141,081

Table 9. Higher education R&D expenditures at institutions in the standard form survey population, by R&D field: FYs 2010–24

(Dollars in thousands)

Field	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Engineering nec	1,805,283	1,922,269	1,993,416	2,084,102	2,010,395	2,020,735	2,258,800	2,113,868	1,971,672	2,191,089	2,239,893	2,396,322	2,466,369	2,611,186	2,751,989
Non-S&E	2,899,059	3,286,376	3,530,380	3,635,155	3,428,145	3,614,009	4,133,999	4,302,380	4,644,507	4,857,395	5,039,241	5,118,043	5,863,853	6,897,930	7,569,236
Business management and business administration	370,015	400,376	443,094	473,185	481,154	569,593	642,332	725,574	784,662	868,197	888,099	934,725	1,080,584	1,218,846	1,349,055
Communication and communications technologies	130,396	153,743	159,924	148,501	166,040	168,514	166,414	202,569	191,649	206,796	192,573	186,847	213,735	253,199	263,204
Education	993,588	1,120,766	1,233,528	1,220,943	1,243,226	1,292,161	1,340,553	1,384,638	1,503,983	1,522,064	1,606,371	1,614,195	1,741,118	2,042,683	2,218,025
Humanities	260,374	313,032	339,740	386,877	402,173	430,222	443,912	493,813	505,343	539,318	565,835	561,272	712,171	845,144	926,242
Law	98,109	124,779	131,533	173,483	149,235	174,692	184,344	223,846	266,366	255,830	267,827	282,773	358,689	431,104	443,674
Social work	177,331	194,667	199,051	212,326	225,897	214,205	211,548	235,297	245,122	285,655	306,409	319,611	363,050	417,433	461,284
Visual and performing arts	68,717	77,358	84,618	87,325	95,837	100,707	133,699	124,842	137,376	159,288	174,980	178,511	228,488	284,280	302,978
Non-S&E nec	800,529	901,655	938,892	932,515	664,583	663,915	1,011,197	911,801	1,010,006	1,020,247	1,037,147	1,040,109	1,166,018	1,405,241	1,604,774

na = not applicable; separate data for natural resources and conservation, materials science, anthropology, and industrial and manufacturing engineering were not collected prior to FY 2016.

nec = not elsewhere classified; S&E = science and engineering.

<sup>a</sup> Prior to FY 2016, expenditures for natural resources and conservation, materials science, anthropology, and industrial and manufacturing engineering were not collected separately. See the FY 2016 Technical Notes, Appendix A (<https://ncesdata.nsf.gov/herd/2016>) for information detailing where these fields were previously reported.

**Note(s):**  
FY 2016 R&D expenditure amounts in various fields may show increases or decreases from amounts reported in FY 2015 because of the reclassification of disciplines. See the FY 2016 Technical Notes, Appendix A (<https://ncesdata.nsf.gov/herd/2016>) for specific details about discipline changes.

**Source(s):**  
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

**Table 10. Higher education R&D expenditures at institutions in the standard form survey population, by source of funds and R&D field: FY 2024**

(Dollars in thousands)

Field	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
All R&D fields	117,554,145	64,639,941	6,076,128	30,150,641	6,355,526	6,685,726	3,646,183
Science	90,713,503	50,524,105	4,485,045	22,473,767	4,905,046	5,494,978	2,830,562
Computer and information sciences	3,955,529	2,597,399	95,728	856,540	188,447	109,627	107,788
Geosciences, atmospheric sciences, and ocean sciences	4,407,449	2,904,063	296,961	841,775	97,986	170,127	96,537
Atmospheric science and meteorology	737,245	587,101	25,816	93,630	8,352	12,092	10,254
Geological and earth sciences	1,688,053	1,028,127	95,849	400,346	53,024	61,991	48,716
Ocean sciences and marine sciences	1,497,079	954,889	145,297	266,750	24,592	75,192	30,359
Geosciences, atmospheric sciences, and ocean sciences nec	485,072	333,946	29,999	81,049	12,018	20,852	7,208
Life sciences	66,821,053	36,573,922	3,495,391	16,149,107	4,276,657	4,129,461	2,196,515
Agricultural sciences	4,802,906	1,707,617	1,144,347	1,474,436	159,419	160,180	156,907
Biological and biomedical sciences	20,769,747	12,589,402	638,516	4,816,901	893,229	1,320,926	510,773
Health sciences	38,512,622	20,969,007	1,420,731	9,040,610	3,144,915	2,507,892	1,429,467
Natural resources and conservation	1,127,157	503,439	190,095	323,933	18,221	54,174	37,295
Life sciences nec	1,608,621	804,457	101,702	493,227	60,873	86,289	62,073
Mathematics and statistics	1,164,507	727,271	34,484	326,061	12,158	55,464	9,069
Physical sciences	7,456,024	4,899,902	152,543	1,712,534	228,724	292,659	169,662
Astronomy and astrophysics	1,078,915	722,929	10,629	200,577	3,064	58,776	82,940
Chemistry	2,517,853	1,524,637	66,649	673,292	95,546	113,527	44,202
Materials science	348,922	229,274	4,791	87,281	17,436	5,524	4,616
Physics	3,107,027	2,207,764	48,088	654,300	67,592	100,054	29,229
Physical sciences nec	403,307	215,298	22,386	97,084	45,086	14,778	8,675
Psychology	1,730,944	1,027,212	69,233	490,126	11,002	107,773	25,598
Social sciences	3,909,953	1,295,442	257,147	1,543,739	54,594	579,175	179,856
Anthropology	178,236	56,158	4,871	96,505	1,382	12,047	7,273
Economics	780,462	212,947	66,699	297,778	13,970	146,376	42,692
Political science and government	601,465	124,004	24,480	285,737	4,537	118,959	43,748
Sociology, demography, and population studies	768,731	337,323	45,701	254,400	15,911	99,228	16,168
Social sciences nec	1,581,059	565,010	115,396	609,319	18,794	202,565	69,975
Sciences nec	1,268,044	498,894	83,558	553,885	35,478	50,692	45,537
Engineering	19,271,406	12,185,245	1,039,887	3,764,180	1,265,499	500,452	516,143
Aerospace, aeronautical, and astronautical engineering	2,054,095	1,579,997	51,161	188,183	205,821	5,645	23,288
Bioengineering and biomedical engineering	2,081,887	1,324,949	74,307	438,403	70,653	139,463	34,112
Chemical engineering	1,409,387	828,980	55,375	317,058	115,617	58,252	34,105
Civil engineering	2,096,724	1,023,417	363,030	522,627	84,541	57,270	45,839
Electrical, electronic, and communications engineering	4,415,693	3,231,304	100,214	689,243	186,353	99,524	109,055
Industrial and manufacturing engineering	747,870	524,338	42,035	133,102	28,710	10,780	8,905
Mechanical engineering	2,572,680	1,753,617	91,594	456,229	188,296	37,507	45,437

**Table 10. Higher education R&D expenditures at institutions in the standard form survey population, by source of funds and R&D field: FY 2024**

(Dollars in thousands)

Field	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Metallurgical and materials engineering	1,141,081	747,553	41,759	204,815	81,818	28,039	37,097
Engineering nec	2,751,989	1,171,090	220,412	814,520	303,690	63,972	178,305
Non-S&E	7,569,236	1,930,591	551,196	3,912,694	184,981	690,296	299,478
Business management and business administration	1,349,055	120,973	61,992	986,209	40,431	54,203	85,247
Communication and communications technologies	263,204	65,394	13,483	132,552	6,333	34,198	11,244
Education	2,218,025	974,858	222,483	669,018	56,912	254,768	39,986
Humanities	926,242	69,567	24,143	654,357	19,817	117,060	41,298
Law	443,674	43,441	42,413	247,342	6,033	72,478	31,967
Social work	461,284	224,358	58,707	128,868	5,444	38,308	5,599
Visual and performing arts	302,978	25,590	16,036	233,554	2,855	15,876	9,067
Non-S&E nec	1,604,774	406,410	111,939	860,794	47,156	103,405	75,070

nec = not elsewhere classified; S&amp;E = science and engineering.

**Note(s):**

This table includes only institutions reporting \$1 million or more in total R&D expenditures in 2023. Institutions reporting less than \$1 million in total R&D expenditures in 2023 completed a shorter version of the survey form in FY 2024, and that form did not collect R&D expenditures by source and detailed field.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2024.



**Table 11. Federally financed higher education R&D expenditures at institutions in the standard form survey population, by federal agency and R&D field: FY 2024**

(Dollars in thousands)

Field	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other <sup>a</sup>
All R&D fields	64,639,941	10,173,898	2,941,393	35,500,073	2,368,711	7,173,758	1,976,398	4,505,710
Science	50,524,105	4,608,662	1,625,392	33,512,191	1,614,292	4,864,495	1,793,380	2,505,693
Computer and information sciences	2,597,399	1,150,806	77,052	213,852	26,113	910,280	21,798	197,498
Geosciences, atmospheric sciences, and ocean sciences	2,904,063	338,398	171,792	60,481	531,232	957,209	44,860	800,091
Atmospheric science and meteorology	587,101	77,161	29,338	2,432	160,634	120,525	3,120	193,891
Geological and earth sciences	1,028,127	82,341	108,576	9,537	247,762	361,408	26,286	192,217
Ocean sciences and marine sciences	954,889	165,931	15,389	13,794	63,111	396,182	5,661	294,821
Geosciences, atmospheric sciences, and ocean sciences nec	333,946	12,965	18,489	34,718	59,725	79,094	9,793	119,162
Life sciences	36,573,922	1,850,594	243,160	30,915,196	92,409	979,095	1,614,291	879,177
Agricultural sciences	1,707,617	25,641	51,849	219,061	11,297	103,034	1,114,217	182,518
Biological and biomedical sciences	12,589,402	505,930	141,044	10,809,895	29,609	690,396	225,280	187,248
Health sciences	20,969,007	1,272,481	25,667	19,182,570	32,512	88,109	58,474	309,194
Natural resources and conservation	503,439	30,602	22,645	28,204	15,198	69,551	170,504	166,735
Life sciences nec	804,457	15,940	1,955	675,466	3,793	28,005	45,816	33,482
Mathematics and statistics	727,271	201,515	14,231	78,410	129,821	266,131	7,346	29,817
Physical sciences	4,899,902	809,857	1,063,722	776,260	795,394	1,325,390	12,871	116,408
Astronomy and astrophysics	722,929	27,867	25,728	1,167	524,245	139,837	312	3,773
Chemistry	1,524,637	155,602	225,297	658,465	14,340	435,100	7,041	28,792
Materials science	229,274	88,464	44,276	12,654	4,180	68,025	1,626	10,049
Physics	2,207,764	495,704	725,954	83,105	236,357	610,885	2,386	53,373
Physical sciences nec	215,298	42,220	42,467	20,869	16,272	71,543	1,506	20,421
Psychology	1,027,212	62,649	534	763,546	16,928	92,295	4,813	86,447
Social sciences	1,295,442	95,288	20,565	560,676	12,559	207,460	75,674	323,220
Anthropology	56,158	3,134	1,382	7,812	43	27,951	3,579	12,257
Economics	212,947	6,058	7,500	75,874	742	25,434	53,209	44,130
Political science and government	124,004	17,136	2,749	22,215	758	36,219	913	44,014
Sociology, demography, and population studies	337,323	19,329	250	202,746	696	42,092	4,878	67,332
Social sciences nec	565,010	49,631	8,684	252,029	10,320	75,764	13,095	155,487
Sciences nec	498,894	99,555	34,336	143,770	9,836	126,635	11,727	73,035
Engineering	12,185,245	5,450,483	1,296,363	1,513,708	741,938	1,876,153	132,873	1,173,727
Aerospace, aeronautical, and astronautical engineering	1,579,997	1,063,630	28,543	9,377	277,107	45,193	1,747	154,400
Bioengineering and biomedical engineering	1,324,949	186,584	18,584	921,281	13,358	128,072	28,287	28,783
Chemical engineering	828,980	150,462	211,805	149,709	13,902	210,542	11,035	81,525
Civil engineering	1,023,417	155,840	167,195	47,135	22,534	221,706	21,308	387,699
Electrical, electronic, and communications engineering	3,231,304	1,939,425	196,736	144,045	191,514	572,381	9,760	177,443
Industrial and manufacturing engineering	524,338	320,659	25,556	15,547	25,276	69,129	1,683	66,488
Mechanical engineering	1,753,617	874,229	213,260	116,822	132,137	290,355	10,984	115,830
Metallurgical and materials engineering	747,553	362,963	157,821	42,225	13,672	138,629	1,607	30,636
Engineering nec	1,171,090	396,691	276,863	67,567	52,438	200,146	46,462	130,923
Non-S&E	1,930,591	114,753	19,638	474,174	12,481	433,110	50,145	826,290

**Table 11. Federally financed higher education R&D expenditures at institutions in the standard form survey population, by federal agency and R&D field: FY 2024**

(Dollars in thousands)

Field	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other <sup>a</sup>
Business management and business administration	120,973	13,383	1,747	13,016	73	22,644	5,638	64,472
Communication and communications technologies	65,394	6,997	4,962	19,718	623	20,397	1,231	11,466
Education	974,858	23,536	1,723	115,618	5,856	284,016	15,457	528,652
Humanities	69,567	7,949	687	13,858	102	14,308	655	32,008
Law	43,441	456	372	8,101	10	2,520	695	31,287
Social work	224,358	831	50	192,560	0	1,968	1,546	27,403
Visual and performing arts	25,590	620	297	4,665	3,731	5,828	303	10,146
Non-S&E nec	406,410	60,981	9,800	106,638	2,086	81,429	24,620	120,856

DOD = Department of Defense; DOE = Department of Energy; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation; nec = not elsewhere classified; S&E = science and engineering; USDA = Department of Agriculture.

<sup>a</sup> Other agency R&D expenditures includes all other agencies reported.

**Note(s):**

This table includes only institutions reporting \$1 million or more in total R&D expenditures in 2023. Institutions reporting less than \$1 million in total R&D expenditures in 2023 completed a shorter version of the survey form in FY 2024, and that form did not collect federally financed R&D expenditures by source and detailed field.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2024.

Table 12. Higher education R&D expenditures at institutions in the standard form survey population, by type of cost, highest degree granted, and institutional control: FYs 2010–24

(Dollars in thousands)

Type of cost, highest degree granted, and institutional control	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
All institutions															
All R&D	61,286,610	65,274,393	65,730,064	66,978,647	67,161,428	68,520,986	71,737,194	75,150,488	79,027,030	83,490,430	86,308,537	89,706,305	97,677,440	108,696,625	117,554,145
Direct costs	46,159,649	49,311,567	49,898,796	51,054,891	51,526,881	52,582,932	55,249,921	57,937,629	60,778,784	64,348,093	66,533,185	69,169,817	75,323,282	84,223,159	91,317,926
Salaries, wages, and fringe benefits	25,929,799	27,860,610	28,339,650	28,776,870	29,091,347	29,873,837	31,434,483	33,232,524	34,676,897	36,568,801	38,730,296	40,342,884	43,106,517	47,104,077	51,514,640
Software	105,970	116,422	103,473	107,688	96,523	117,020	113,557	109,660	121,868	136,544	158,590	172,887	192,918	221,173	249,255
Noncapitalized software	88,456	98,438	93,267	95,655	84,281	93,215	95,169	98,633	110,803	120,989	144,329	158,403	178,195	199,273	225,588
Capitalized software	17,514	17,984	10,206	12,033	12,242	23,805	18,388	11,027	11,065	15,555	14,261	14,484	14,723	21,900	23,667
Capitalized equipment	2,148,421	2,256,025	2,040,490	2,254,383	2,036,405	2,119,775	2,169,348	2,193,707	2,148,430	2,439,584	2,588,735	2,664,230	2,703,713	3,254,884	3,603,337
Passed through to subrecipients	4,956,929	5,436,850	5,531,357	5,689,030	5,702,930	5,633,758	5,696,733	5,915,737	6,332,240	6,757,122	7,100,913	7,627,080	8,605,522	9,457,522	10,460,284
Other direct costs	13,018,530	13,641,660	13,883,826	14,226,920	14,599,676	14,838,542	15,835,800	16,486,001	17,499,349	18,446,042	17,954,651	18,362,736	20,714,612	24,185,503	25,490,410
Indirect costs	15,126,961	15,962,826	15,831,268	15,923,756	15,634,547	15,938,054	16,487,273	17,212,859	18,248,246	19,142,337	19,775,352	20,536,488	22,354,158	24,473,466	26,236,219
Recovered	10,465,893	11,352,339	11,221,758	11,220,280	10,874,009	11,101,370	11,453,249	12,022,800	12,746,380	13,608,664	14,036,712	14,660,171	16,185,290	17,703,259	19,172,143
Unrecovered	4,661,068	4,610,487	4,609,510	4,703,476	4,760,538	4,836,684	5,034,024	5,190,059	5,501,866	5,533,673	5,738,640	5,876,317	6,168,868	6,770,207	7,064,076
Doctorate															
All R&D	60,266,691	64,064,133	64,700,201	66,182,145	66,410,192	67,860,286	70,686,976	74,441,469	78,355,175	82,803,180	85,613,262	89,025,572	96,896,184	107,827,974	116,581,952
Direct costs	45,266,156	48,282,499	49,022,847	50,363,045	50,877,741	52,010,844	54,331,508	57,313,332	60,194,555	63,754,118	65,935,372	68,584,316	74,658,417	83,480,884	90,479,383
Salaries, wages, and fringe benefits	25,494,721	27,357,645	27,906,910	28,436,384	28,757,780	29,582,616	31,084,360	32,913,287	34,363,836	36,256,876	38,416,748	40,017,363	42,760,890	46,723,319	51,093,637
Software	98,119	110,285	95,627	102,523	91,347	111,642	108,665	107,222	119,962	134,754	156,208	169,135	188,696	217,156	243,984
Noncapitalized software	80,940	92,808	86,115	90,658	79,643	88,077	90,568	96,578	109,040	119,354	142,277	155,015	174,034	195,453	220,921
Capitalized software	17,179	17,477	9,512	11,865	11,704	23,565	18,097	10,644	10,922	15,400	13,931	14,120	14,662	21,703	23,063
Capitalized equipment	2,086,956	2,192,296	1,995,345	2,219,549	2,011,004	2,095,590	2,039,169	2,166,520	2,124,588	2,418,126	2,565,540	2,636,140	2,666,094	3,218,572	3,558,115
Passed through to subrecipients	4,901,412	5,371,178	5,469,627	5,647,933	5,663,448	5,609,183	5,659,155	5,884,468	6,302,791	6,728,976	7,073,375	7,598,695	8,570,861	9,415,979	10,417,801
Other direct costs	12,684,948	13,251,095	13,555,338	13,956,656	14,354,162	14,611,813	15,440,159	16,241,835	17,283,378	18,215,386	17,723,501	18,162,983	20,471,876	23,905,858	25,165,846
Indirect costs	15,000,535	15,781,634	15,677,354	15,819,100	15,532,451	15,849,442	16,355,468	17,128,137	18,160,620	19,049,062	19,677,890	20,441,256	22,237,767	24,347,090	26,102,569
Recovered	10,382,463	11,236,113	11,125,166	11,147,825	10,808,998	11,041,336	11,384,466	11,966,759	12,686,453	13,547,840	13,974,021	14,597,418	16,107,778	17,624,389	19,086,976
Unrecovered	4,618,072	4,545,521	4,552,188	4,671,275	4,723,453	4,808,106	4,971,002	5,161,378	5,474,167	5,501,222	5,703,869	5,843,838	6,129,989	6,722,701	7,015,593
Nondoctorate															
All R&D	1,019,919	1,210,260	1,029,863	796,502	751,236	660,700	1,050,218	709,019	671,855	687,250	695,275	680,733	781,256	868,651	972,193
Direct costs	893,493	1,029,068	875,949	691,846	649,140	572,088	918,413	624,297	584,229	593,975	597,813	585,501	664,865	742,275	838,543
Salaries, wages, and fringe benefits	435,078	502,965	432,740	340,486	333,567	291,221	350,123	319,237	313,061	311,925	313,548	325,521	345,627	380,758	421,003
Software	7,851	6,137	7,846	5,165	5,176	5,378	4,892	2,438	1,906	1,790	2,382	3,752	4,222	4,017	5,271
Noncapitalized software	7,516	5,630	7,152	4,997	4,638	5,138	4,601	2,055	1,763	1,635	2,052	3,388	4,161	3,820	4,667
Capitalized software	335	507	694	168	538	240	291	383	143	155	330	364	61	197	604
Capitalized equipment	61,465	63,729	45,145	34,834	25,401	24,185	130,179	27,187	23,842	21,458	23,195	28,090	37,619	36,312	45,222
Passed through to subrecipients	55,517	65,672	61,730	41,097	39,482	24,575	37,578	31,269	29,449	28,146	27,538	28,385	34,661	41,543	42,483
Other direct costs	333,582	390,565	328,488	270,264	245,514	226,729	395,641	244,166	215,971	230,656	231,150	199,753	242,736	279,645	324,564
Indirect costs	126,426	181,192	153,914	104,656	102,096	88,612	131,805	84,722	87,626	93,275	97,462	95,232	116,391	126,376	133,650
Recovered	83,430	116,226	96,592	72,455	65,011	60,034	68,783	56,041	59,927	60,824	62,691	62,753	77,512	78,870	85,167

Table 12. Higher education R&D expenditures at institutions in the standard form survey population, by type of cost, highest degree granted, and institutional control: FYs 2010–24

(Dollars in thousands)

Type of cost, highest degree granted, and institutional control	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Unrecovered	42,996	64,966	57,322	32,201	37,085	28,578	63,022	28,681	27,699	32,451	34,771	32,479	38,879	47,506	48,483
Public															
All R&D	41,266,626	43,915,960	44,162,595	44,814,125	44,640,610	45,382,410	47,074,583	49,257,662	51,890,982	54,655,748	56,639,311	58,656,445	63,797,075	71,006,881	76,943,160
Direct costs	31,705,979	33,922,562	34,339,324	34,970,423	34,982,571	35,611,429	36,936,818	38,696,275	40,643,826	42,882,969	44,475,561	46,005,982	49,983,137	55,858,875	60,883,408
Salaries, wages, and fringe benefits	18,317,189	19,636,095	19,949,722	20,205,730	20,413,042	20,779,313	21,724,959	22,901,546	23,752,695	25,070,725	26,483,281	27,546,299	29,332,585	31,832,642	34,870,259
Software	82,340	96,499	83,509	85,149	74,459	92,877	89,420	81,618	94,259	103,511	121,050	139,285	149,388	165,600	177,471
Noncapitalized software	69,454	80,693	74,897	76,518	65,040	74,445	74,083	73,831	85,049	92,431	111,956	127,246	139,031	150,265	158,853
Capitalized software	12,886	15,806	8,612	8,631	9,419	18,432	15,337	7,787	9,210	11,080	9,094	12,039	10,357	15,335	18,618
Capitalized equipment	1,457,694	1,555,049	1,476,328	1,655,640	1,468,659	1,508,998	1,578,490	1,554,190	1,522,210	1,744,709	1,924,765	1,941,026	1,983,854	2,335,068	2,590,242
Passed through to subrecipients	3,065,688	3,418,705	3,502,384	3,608,137	3,558,959	3,541,642	3,520,318	3,662,377	3,917,036	4,149,921	4,384,656	4,597,945	5,168,602	5,679,612	6,349,479
Other direct costs	8,783,068	9,216,214	9,327,381	9,415,767	9,467,452	9,688,599	10,023,631	10,496,544	11,357,626	11,814,103	11,561,809	11,781,427	13,348,708	15,845,953	16,895,957
Indirect costs	9,560,647	9,993,398	9,823,271	9,843,702	9,658,039	9,770,981	10,137,765	10,561,387	11,247,156	11,772,779	12,163,750	12,650,463	13,813,938	15,148,006	16,059,752
Recovered	6,175,654	6,585,483	6,554,816	6,539,581	6,339,755	6,409,794	6,622,242	6,946,564	7,365,362	7,916,489	8,105,687	8,506,535	9,429,277	10,373,089	11,163,918
Unrecovered	3,384,993	3,407,915	3,268,455	3,304,121	3,318,284	3,361,187	3,515,523	3,614,823	3,881,794	3,856,290	4,058,063	4,143,928	4,384,661	4,774,917	4,895,834
Private															
All R&D	20,019,984	21,358,433	21,567,469	22,164,522	22,520,818	23,138,576	24,662,611	25,892,826	27,136,048	28,834,682	29,669,226	31,049,860	33,880,365	37,689,744	40,610,985
Direct costs	14,453,670	15,389,005	15,559,472	16,084,468	16,544,310	16,971,503	18,313,103	19,241,354	20,134,958	21,465,124	22,057,624	23,163,835	25,340,145	28,364,284	30,434,518
Salaries, wages, and fringe benefits	7,612,610	8,224,515	8,389,928	8,571,140	8,678,305	9,094,524	9,709,524	10,330,978	10,924,202	11,498,076	12,247,015	12,796,585	13,773,932	15,271,435	16,644,381
Software	23,630	19,923	19,964	22,539	22,064	24,143	24,137	28,042	27,609	33,033	37,540	33,602	43,530	55,573	71,784
Noncapitalized software	19,002	17,745	18,370	19,137	19,241	18,770	21,086	24,802	25,754	28,558	32,373	31,157	39,164	49,008	66,735
Capitalized software	4,628	2,178	1,594	3,402	2,823	5,373	3,051	3,240	1,855	4,475	5,167	2,445	4,366	6,565	5,049
Capitalized equipment	690,727	700,976	564,162	598,743	567,746	610,777	590,858	639,517	626,220	694,875	663,970	723,204	719,859	919,816	1,013,095
Passed through to subrecipients	1,891,241	2,018,145	2,028,973	2,080,893	2,143,971	2,092,116	2,176,415	2,253,360	2,415,204	2,607,201	2,716,257	3,029,135	3,436,920	3,777,910	4,110,805
Other direct costs	4,235,462	4,425,446	4,556,445	4,811,153	5,132,224	5,149,943	5,812,169	5,989,457	6,141,723	6,631,939	6,392,842	6,581,309	7,365,904	8,339,550	8,594,453
Indirect costs	5,566,314	5,969,428	6,007,997	6,080,054	5,976,508	6,167,073	6,349,508	6,651,472	7,001,090	7,369,558	7,611,602	7,886,025	8,540,220	9,325,460	10,176,467
Recovered	4,290,239	4,766,856	4,666,942	4,680,699	4,534,254	4,691,576	4,831,007	5,076,236	5,381,018	5,692,175	5,931,025	6,153,636	6,756,013	7,330,170	8,008,225
Unrecovered	1,276,075	1,202,572	1,341,055	1,399,355	1,442,254	1,475,497	1,518,501	1,575,236	1,620,072	1,677,383	1,680,577	1,732,389	1,784,207	1,995,290	2,168,242

Source(s):  
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

Table 13. Higher education R&D expenditures at institutions in the standard form survey population, ranked by FY 2024 R&D expenditures: FYs 2010–24

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
All institutions	-	61,286,610	65,274,393	65,730,064	66,978,647	67,161,428	68,520,986	71,737,194	75,150,488	79,027,030	83,490,430	86,308,537	89,706,305	97,677,440	108,696,625	117,554,145
Johns Hopkins U. <sup>a</sup>	1	2,004,482	2,145,308	2,106,185	2,168,568	2,242,478	2,305,679	2,431,180	2,562,307	2,661,033	2,917,436	3,110,494	3,181,385	3,420,312	3,801,585	4,129,264
U. Pennsylvania	2	836,322	886,036	847,077	828,422	828,350	864,068	1,296,429	1,374,293	1,441,931	1,506,285	1,579,364	1,631,950	1,791,311	1,953,617	2,167,504
U. California, San Francisco	3	935,509	995,226	1,032,673	1,042,841	1,084,031	1,126,620	1,294,261	1,409,398	1,595,732	1,595,098	1,651,073	1,710,036	1,805,950	2,046,539	2,127,637
U. Michigan, Ann Arbor	4	1,184,445	1,279,123	1,322,711	1,375,117	1,349,262	1,369,278	1,436,448	1,530,139	1,600,869	1,675,805	1,673,862	1,639,645	1,770,708	1,925,875	2,110,961
U. Wisconsin-Madison	5	1,029,295	1,111,642	1,169,779	1,123,501	1,108,564	1,069,077	1,157,680	1,193,413	1,205,518	1,297,331	1,363,931	1,380,075	1,523,513	1,731,949	1,933,229
U. California, Los Angeles	6	936,995	982,357	1,003,375	966,659	948,197	1,021,227	1,037,528	1,076,917	1,318,110	1,306,376	1,392,941	1,454,880	1,536,197	1,721,665	1,896,227
U. California, San Diego	7	943,219	1,009,378	1,073,864	1,075,554	1,067,388	1,101,466	1,087,117	1,133,454	1,265,196	1,353,763	1,403,735	1,425,499	1,533,357	1,705,410	1,881,289
U. Washington, Seattle	8	1,022,740	1,148,533	1,109,008	1,192,513	1,176,340	1,180,563	1,277,679	1,348,220	1,413,902	1,425,601	1,456,902	1,488,645	1,559,708	1,734,091	1,691,302
Stanford U.	9	839,839	907,971	903,238	945,450	959,247	1,022,551	1,066,269	1,109,708	1,157,597	1,204,116	1,203,950	1,274,483	1,384,555	1,537,846	1,641,961
Cornell U.	10	749,721	781,651	802,387	845,184	883,292	954,412	974,199	984,478	1,071,621	1,144,534	1,190,063	1,183,524	1,300,357	1,451,971	1,613,631
U. North Carolina, Chapel Hill	11	755,284	869,174	884,791	973,007	989,766	966,781	1,045,338	1,102,063	1,136,158	1,153,773	1,159,725	1,205,883	1,361,028	1,549,617	1,598,751
Ohio State U.	12	755,194	832,126	766,513	793,373	815,075	817,881	818,464	864,327	875,014	929,250	968,260	1,236,111	1,363,388	1,449,188	1,581,570
Duke U.	13	983,289	1,022,207	1,009,911	992,821	1,036,813	1,036,698	1,055,778	1,126,924	1,167,611	1,226,517	1,196,638	1,237,686	1,390,538	1,507,996	1,580,756
U. Maryland <sup>b</sup>	14	na	na	na	na	na	na	na	na	na	1,096,600	1,103,062	1,142,264	1,228,550	1,385,302	1,539,520
Georgia Institute of Technology	15	615,833	655,375	688,905	730,488	725,550	765,370	790,706	804,301	891,728	960,167	1,048,988	1,114,481	1,231,485	1,405,080	1,528,637
Yale U.	16	623,510	656,967	656,555	788,784	772,840	803,004	881,765	951,084	990,399	1,072,309	1,094,135	1,165,148	1,191,201	1,326,807	1,519,694
U. Pittsburgh, Pittsburgh	17	822,491	899,386	866,638	872,736	856,806	861,205	889,793	939,706	1,006,513	1,080,951	1,105,532	1,135,416	1,251,998	1,398,078	1,504,665
New York U.	18	365,944	430,752	458,645	471,909	523,623	602,041	809,739	917,744	887,558	934,720	947,293	1,063,704	1,276,038	1,457,424	1,500,732
Harvard U.	19	583,361	649,774	799,432	1,012,766	933,975	1,013,753	1,077,253	1,123,160	1,173,371	1,239,736	1,239,983	1,254,008	1,308,458	1,435,218	1,494,527
Columbia U. in the City of New York	20	807,235	878,900	889,487	889,188	890,642	868,159	837,312	893,062	947,504	1,003,615	1,032,909	1,098,570	1,230,924	1,341,952	1,449,535
U. Minnesota, Twin Cities	21	786,074	847,419	826,173	858,378	876,870	880,618	910,181	921,681	954,683	1,013,112	1,042,382	1,072,961	1,202,084	1,320,183	1,409,710
Texas A&M U., College Station and Health Science Center	22	689,624	705,720	693,421	820,015	854,214	866,678	892,718	905,474	922,178	952,156	1,130,803	1,147,720	1,152,666	1,277,814	1,393,825
U. Texas M. D. Anderson Cancer Center	23	599,529	663,279	685,814	718,096	794,980	833,406	852,095	888,029	929,710	969,496	1,051,297	1,124,971	1,182,536	1,255,190	1,363,321
Vanderbilt U. and Vanderbilt U. Medical Center	24	504,959	566,031	560,466	571,603	683,890	647,816	640,842	712,036	738,620	776,937	824,803	1,019,273	1,086,223	1,253,156	1,327,870
Pennsylvania State U., University Park and Hershey Medical Center	25	770,449	794,846	797,679	837,880	800,773	791,031	825,561	854,815	908,708	949,679	991,923	970,544	1,019,940	1,206,793	1,302,971
U. Florida	26	681,548	739,931	696,985	695,063	708,526	739,522	791,294	801,418	865,093	928,639	942,223	959,965	1,085,834	1,250,201	1,272,493
U. Southern California	27	592,791	603,294	623,544	645,636	687,222	691,031	702,866	764,322	891,625	909,683	941,198	955,565	1,039,905	1,154,804	1,264,197
Northwestern U.	28	575,078	618,980	631,078	639,781	645,333	656,167	713,491	751,809	805,672	857,069	874,671	913,178	1,000,695	1,114,269	1,257,859
Emory U.	29	529,453	547,316	565,766	575,943	558,600	585,210	614,527	664,888	712,417	794,928	808,792	852,922	958,281	1,094,328	1,246,507
Washington U., Saint Louis	30	695,974	725,039	706,410	684,847	664,752	694,069	741,115	754,462	816,139	887,088	920,215	989,214	1,047,098	1,168,861	1,243,115
U. Texas, Austin	31	589,502	632,171	621,538	634,132	585,251	604,376	621,692	652,187	679,781	696,111	797,199	779,348	845,896	1,035,838	1,143,917
U. California, Berkeley	32	694,049	707,945	730,348	727,002	744,343	788,505	774,255	770,822	796,505	802,931	840,000	846,872	981,035	1,076,754	1,126,782
Massachusetts Institute of Technology	33	677,138	723,610	824,130	900,524	908,017	930,719	946,159	952,017	964,336	1,009,466	987,968	949,076	989,166	1,000,081	1,065,554
Icahn School of Medicine at Mount Sinai	34	370,666	405,527	400,680	428,654	463,429	508,353	540,296	575,448	640,141	722,241	747,014	820,260	893,968	972,476	1,015,600
U. Arizona	35	586,647	610,565	625,365	629,466	588,088	606,219	604,464	622,200	687,066	734,270	760,975	770,031	824,340	955,424	1,012,404

Table 13. Higher education R&D expenditures at institutions in the standard form survey population, ranked by FY 2024 R&D expenditures: FYs 2010–24

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
U. California, Davis	36	679,915	707,896	713,292	725,734	711,721	721,077	741,892	738,347	788,832	804,282	816,693	817,409	883,807	962,399	1,005,757
Arizona State U.	37	329,345	355,215	385,959	405,154	426,651	458,412	518,239	545,016	617,717	639,637	673,357	677,303	797,224	903,779	1,003,271
Michigan State U.	38	431,373	454,248	507,061	515,707	526,906	558,248	613,369	694,917	715,290	725,708	713,197	710,178	759,229	844,076	931,848
Purdue U., West Lafayette	39	548,980	578,231	602,501	595,739	564,923	558,611	606,302	622,813	631,574	663,927	687,144	679,482	754,627	844,570	931,513
U. Illinois, Urbana-Champaign	40	515,133	545,669	583,754	743,487	621,733	639,817	625,180	642,084	652,709	677,523	689,176	731,268	765,909	821,023	906,751
Indiana U., Bloomington	41	177,520	184,096	184,486	197,897	206,039	485,076	508,766	540,421	566,907	668,157	710,850	695,258	751,309	853,056	896,983
Baylor C. of Medicine	42	447,874	466,061	474,700	508,799	496,314	520,220	572,527	604,952	623,396	651,920	685,641	716,976	827,005	847,305	881,226
U. Texas Southwestern Medical Center	43	419,220	431,883	435,085	440,620	434,627	438,824	442,666	461,797	474,260	496,697	595,939	632,134	719,002	800,391	869,297
U. Alabama, Birmingham	44	489,845	503,698	453,779	440,796	428,563	516,229	537,825	561,851	588,207	607,863	618,226	644,330	713,480	780,479	865,868
Rutgers, State U. New Jersey, New Brunswick	45	428,432	432,306	434,901	493,320	644,116	628,613	630,212	681,719	706,282	657,249	688,077	643,955	712,231	831,719	836,800
U. Virginia, Charlottesville	46	276,308	398,096	383,359	385,828	358,576	373,218	397,458	469,682	551,761	613,938	652,002	611,313	662,658	714,457	813,772
U. Utah	47	379,200	414,316	430,056	494,058	486,140	518,928	350,212	380,295	552,306	601,133	607,061	624,737	670,119	723,713	789,271
Boston U.	48	352,817	355,916	334,496	368,281	367,328	388,336	395,921	421,360	484,205	534,205	583,267	652,096	725,402	773,200	784,355
U. Colorado Anschutz Medical Campus <sup>c</sup>	49	na	na	na	na	na	na	na	na	na	na	na	562,855	611,358	686,026	741,643
U. Cincinnati	50	411,269	448,936	433,668	438,642	422,873	436,028	430,579	455,250	480,095	529,796	530,138	551,826	615,070	698,642	739,878
U. Colorado Boulder	51	349,449	390,677	392,004	385,849	379,475	420,775	453,123	499,389	514,573	513,822	525,674	547,724	611,380	651,924	717,920
North Carolina State U.	52	360,795	378,154	404,225	417,468	446,112	468,293	489,918	500,445	509,841	541,100	546,290	547,118	583,203	633,251	717,004
U. Iowa	53	444,034	443,893	446,429	435,377	449,147	443,218	473,362	494,280	511,973	508,353	538,583	553,876	594,215	662,134	703,326
U. Chicago	54	437,721	453,562	419,631	402,621	390,082	412,536	420,997	433,328	423,993	459,171	458,891	497,651	591,805	628,302	680,753
U. Nebraska, Lincoln and Medical Center <sup>d</sup>	55	na	na	na	na	na	na	na	na	na	na	na	na	na	617,372	657,468
Virginia Polytechnic Institute and State U.	56	398,169	450,058	454,417	496,169	513,149	504,282	521,773	522,425	531,636	541,969	556,341	542,045	591,861	598,113	656,916
U. California, Irvine	57	327,594	344,678	350,030	347,773	340,056	329,798	345,319	361,414	426,610	448,967	490,597	523,752	534,947	609,614	644,948
Case Western Reserve U.	58	418,164	429,206	431,090	425,788	419,011	401,527	405,655	408,609	434,441	438,994	439,778	421,868	467,389	553,740	642,546
U. Georgia	59	295,339	335,901	351,395	350,225	355,471	374,264	410,345	455,432	453,249	477,536	482,786	493,944	545,631	570,956	628,117
Uniformed Services U. of the Health Sciences	60	134,126	175,365	143,250	164,232	262,489	361,173	256,203	298,370	308,326	417,300	324,510	384,490	277,240	496,441	569,050
U. Miami	61	280,671	323,486	365,301	344,757	345,805	331,036	358,441	367,877	357,104	360,716	381,410	375,841	439,300	509,951	559,013
Princeton U.	62	242,570	263,335	275,666	269,908	293,274	279,851	307,653	334,125	365,007	385,739	396,502	404,448	461,185	513,365	558,624
U. Kansas	63	267,961	274,727	286,262	298,498	301,534	311,383	297,933	300,319	339,046	352,643	368,811	385,637	405,267	466,222	546,110
Oregon Health and Science U.	64	314,990	334,324	305,530	308,767	314,802	326,915	331,524	348,449	372,180	415,629	446,890	452,812	479,226	517,742	545,214
SUNY, U. Buffalo	65	349,670	353,172	360,226	387,863	386,562	382,935	389,569	401,591	410,220	413,817	422,038	425,349	439,709	471,569	541,880
U. Illinois, Chicago	66	362,939	380,828	388,625	367,848	347,888	354,560	337,296	372,619	361,690	382,949	412,147	429,585	440,573	492,936	532,181
U. Kentucky	67	359,944	372,932	360,776	339,764	328,239	331,705	349,661	378,374	393,034	410,581	417,674	429,241	476,517	504,005	527,658
Virginia Commonwealth U.	68	197,709	207,756	201,366	196,015	201,858	218,925	225,999	235,464	246,190	255,648	283,874	364,096	411,729	465,976	524,295
U. South Florida <sup>e</sup>	69	385,029	394,963	443,206	459,409	488,641	485,354	505,965	557,889	385,686	391,325	333,344	385,965	405,166	461,390	521,892
U. Missouri, Columbia	70	238,500	230,957	239,810	236,423	237,266	246,684	280,051	293,006	294,686	310,421	332,180	388,779	432,310	462,435	508,580
Carnegie Mellon U.	71	222,790	242,882	255,933	271,277	251,222	242,004	319,168	328,100	331,383	359,720	386,996	402,376	449,707	484,757	505,262
Scripps Research Institute	72	387,298	400,768	398,673	399,899	386,231	384,161	364,670	354,582	396,839	427,734	444,964	485,435	492,639	494,946	501,468
U. Rochester	73	414,655	429,034	389,612	389,355	353,419	346,932	346,165	353,003	370,645	393,960	397,211	409,255	450,805	481,227	492,372



Table 13. Higher education R&D expenditures at institutions in the standard form survey population, ranked by FY 2024 R&D expenditures: FYs 2010–24

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
U. Oklahoma <sup>f</sup>	74	218,089	249,297	240,974	255,674	253,344	242,367	259,998	272,239	283,638	302,679	362,209	380,048	408,656	436,964	474,043
SUNY, U. Albany	75	359,364	148,625	137,758	137,759	130,955	111,705	120,232	156,386	173,031	181,531	138,088	114,501	129,796	141,671	471,605
Colorado State U., Fort Collins	76	302,896	330,784	375,919	313,238	307,978	317,219	331,862	338,404	374,955	398,477	407,302	447,197	456,911	498,073	466,386
U. Delaware	77	153,311	169,746	170,174	179,967	175,563	175,724	176,295	183,428	186,192	206,270	220,445	231,532	368,107	428,128	465,780
Iowa State U.	78	250,120	267,641	260,995	266,596	313,263	306,125	328,385	323,584	361,206	358,474	363,107	360,275	393,184	420,823	462,347
Florida State U.	79	227,329	230,411	225,378	250,877	252,548	256,449	268,288	282,901	297,661	329,205	350,430	328,604	355,986	414,463	460,733
Utah State U.	80	149,169	174,167	157,355	158,352	169,605	175,353	180,590	187,314	219,397	283,917	304,256	325,223	344,851	401,437	451,379
California Institute of Technology	81	362,172	377,514	379,713	347,105	367,182	374,424	371,060	400,312	391,003	399,931	449,651	438,624	478,142	490,672	445,173
U. Connecticut	82	237,908	253,792	256,854	242,251	258,056	259,397	265,522	267,647	269,685	285,764	280,131	302,329	367,557	390,165	433,545
Louisiana State U., Baton Rouge	83	289,872	287,841	285,395	283,400	290,076	281,154	291,972	265,168	286,726	296,497	286,733	296,673	344,556	384,268	431,439
U. Texas Health Science Center, Houston	84	240,772	261,172	236,250	233,256	233,737	234,299	237,016	246,060	258,411	271,525	273,862	308,823	342,633	374,105	419,123
Dartmouth C. and Dartmouth Hitchcock Medical Center	85	194,141	210,631	195,930	201,591	212,606	209,646	233,636	308,445	323,927	323,020	326,349	330,226	344,126	366,856	418,429
Washington State U.	86	304,352	320,510	335,930	305,510	288,752	303,214	301,640	331,051	331,424	344,997	335,201	357,648	368,396	378,744	403,369
Auburn U., Auburn	87	145,115	163,335	133,013	147,229	142,487	135,899	152,381	190,340	212,925	231,619	255,281	266,374	304,439	349,273	393,557
Wichita State U.	88	51,524	63,538	61,279	61,388	58,859	59,940	65,930	78,514	81,137	128,795	153,816	192,042	261,519	366,848	392,333
U. Tennessee, Knoxville <sup>g</sup>	89	150,671	167,456	179,252	193,054	179,041	173,533	183,268	203,800	259,607	247,693	320,407	316,273	324,435	338,847	386,949
George Washington U.	90	196,917	197,621	196,448	202,428	227,995	241,117	231,829	245,519	260,656	269,799	270,369	266,108	275,483	360,260	381,582
Georgetown U.	91	159,355	169,916	180,308	178,995	172,726	176,131	183,788	212,319	221,449	240,960	258,659	279,932	313,220	337,006	376,600
U. Hawaii, Manoa	92	303,085	318,316	312,311	326,750	324,342	316,497	304,476	292,021	276,388	280,416	275,929	271,768	277,323	313,143	375,631
Brown U.	93	335,838	344,090	365,120	361,010	341,531	342,040	347,016	212,290	244,838	256,954	266,127	276,331	310,780	353,591	374,504
Oregon State U.	94	216,595	228,814	240,507	232,677	230,963	245,317	254,275	267,068	272,433	263,830	268,385	276,955	297,934	337,985	371,904
Albert Einstein C. of Medicine	95	na	na	na	na	na	na	289,660	289,685	297,328	298,824	288,654	301,715	318,314	336,238	360,789
Medical C. Wisconsin	96	191,816	215,358	209,040	201,237	199,713	199,283	199,925	209,618	229,436	251,300	264,325	276,850	309,244	346,691	360,309
U. New Mexico	97	211,771	220,565	220,360	227,703	228,849	232,271	239,550	246,597	251,322	239,696	243,375	332,566	331,164	316,026	354,874
U. Massachusetts, Medical School	98	232,039	262,714	256,090	245,923	241,869	250,338	253,099	279,884	274,211	281,507	279,096	347,337	358,204	326,731	349,616
Northeastern U.	99	79,949	86,783	107,862	116,088	116,245	122,915	129,040	142,349	166,711	183,998	200,068	211,342	231,607	288,558	346,900
U. Notre Dame	100	110,369	134,410	157,691	175,220	182,228	190,954	202,216	212,823	219,993	240,078	227,535	240,324	280,604	331,943	345,791
Wake Forest U.	101	192,034	209,134	204,328	182,721	176,380	171,926	170,006	182,227	191,371	238,933	244,643	264,216	269,109	308,972	344,517
Mississippi State U.	102	231,675	226,070	233,197	206,424	209,729	226,359	239,446	240,972	244,102	264,526	280,485	275,143	303,418	319,684	342,132
Clemson U.	103	174,693	166,350	142,096	152,444	161,070	171,215	183,965	193,268	213,458	218,760	228,597	237,485	263,158	286,503	338,533
Florida International U.	104	110,271	110,006	118,058	128,070	132,531	163,033	170,846	177,292	196,180	225,864	236,842	246,075	281,665	306,434	325,785
Medical U. South Carolina	105	224,632	213,346	236,586	245,451	242,594	243,534	260,098	262,267	282,253	295,600	272,590	277,761	284,553	333,826	320,990
SUNY, Stony Brook U.	106	204,728	211,356	219,744	225,712	211,631	220,580	230,621	238,612	245,016	260,813	263,470	274,516	312,698	324,531	319,258
Temple U.	107	124,528	134,533	138,318	224,087	224,101	227,468	246,392	268,385	276,011	284,301	299,707	299,778	301,395	292,029	314,999
U. Texas Health Science Center, San Antonio	108	207,115	198,655	184,298	175,983	172,716	170,277	194,885	169,200	179,219	188,483	202,572	219,734	238,510	281,078	312,791
Woods Hole Oceanographic Institution	109	181,746	198,775	204,352	198,232	220,016	216,592	212,374	194,088	204,400	229,143	227,573	262,048	255,017	287,825	308,240
Rockefeller U.	110	265,750	272,491	292,896	298,474	316,368	323,932	335,136	348,845	353,142	351,089	356,217	357,543	360,877	385,168	305,300

Table 13. Higher education R&D expenditures at institutions in the standard form survey population, ranked by FY 2024 R&D expenditures: FYs 2010–24

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
U. California, Santa Barbara	111	225,730	230,435	233,883	236,497	231,322	222,870	230,139	238,246	235,164	243,778	254,434	248,961	278,897	305,483	303,446
Wayne State U.	112	254,492	259,895	227,070	224,331	218,435	213,878	221,537	227,728	238,859	244,217	243,259	235,519	242,247	250,911	291,689
U. Central Florida	113	117,985	109,190	116,891	126,681	185,555	215,519	198,211	200,387	215,332	225,085	213,757	218,596	221,488	247,259	284,943
U. Massachusetts, Amherst	114	169,141	181,297	194,775	190,739	200,199	213,902	214,576	210,416	211,140	223,177	219,389	213,824	245,158	268,657	281,730
George Mason U.	115	84,120	88,089	90,198	95,913	98,680	106,410	108,899	112,404	149,138	186,267	218,445	214,207	230,068	252,239	281,697
Tufts U.	116	156,106	156,395	160,922	156,525	160,825	168,314	189,085	223,409	213,457	213,285	216,241	224,956	231,224	247,276	278,304
Rice U.	117	97,903	110,235	117,223	131,003	138,536	144,679	154,543	167,277	161,831	182,564	198,681	207,404	216,202	255,115	277,683
U. South Carolina, Columbia	118	229,145	201,592	214,901	203,365	206,173	208,736	209,271	208,670	206,355	205,940	219,734	215,374	229,162	262,207	277,329
Tulane U.	119	165,513	171,703	164,373	160,414	157,825	152,658	165,438	180,993	193,294	196,933	204,430	205,206	222,605	258,439	275,885
Thomas Jefferson U.	120	103,064	104,923	100,506	89,273	118,378	119,631	122,396	142,569	148,573	170,458	171,377	200,393	246,212	258,345	271,198
Kansas State U.	121	160,679	169,167	176,141	183,096	184,945	188,721	193,254	196,478	218,299	218,622	213,900	203,846	212,974	217,992	264,961
West Virginia U.	122	154,926	166,420	169,303	167,144	164,454	170,145	172,477	185,606	185,110	187,512	188,452	199,907	214,081	246,173	259,072
Montana State U., Bozeman	123	135,084	125,966	124,228	113,136	113,348	108,414	112,073	129,622	125,129	154,811	166,285	193,577	200,820	229,682	257,927
Texas Tech U.	124	133,360	149,399	138,026	142,676	159,308	163,897	172,521	191,482	185,742	193,923	199,643	197,739	226,729	240,107	256,919
U. Louisiana, Lafayette	125	69,412	69,978	65,275	61,887	67,580	77,300	80,099	100,956	124,713	144,187	164,070	181,400	205,201	225,924	254,883
Oklahoma State U., Stillwater	126	147,094	162,786	166,523	134,500	126,543	129,968	181,617	189,024	188,756	184,276	187,060	198,799	195,041	226,498	253,770
U. Dayton	127	93,309	90,557	81,030	84,252	86,881	98,182	116,589	135,214	147,001	165,343	163,718	191,228	211,494	228,723	252,537
U. Alaska, Fairbanks	128	161,986	165,530	160,407	162,658	155,769	142,742	144,259	152,694	140,917	144,457	152,299	172,957	202,516	218,041	246,295
U. Vermont	129	129,856	132,356	115,697	115,486	109,701	114,547	115,611	117,667	128,293	135,859	191,147	195,320	216,307	233,806	246,240
Georgia State U.	130	81,015	92,725	91,148	111,999	123,915	139,596	161,314	200,171	201,235	195,572	202,451	206,472	215,908	237,493	241,115
U. Texas Medical Branch	131	188,399	193,555	180,888	180,198	178,014	173,506	179,541	185,106	181,831	175,372	180,595	185,759	204,518	233,192	241,072
U. Houston	132	119,811	113,709	116,288	130,844	140,597	150,628	162,049	169,431	177,484	195,398	200,428	202,536	240,126	231,942	238,996
U. California, Riverside	133	130,288	132,238	135,494	132,617	133,558	144,511	152,233	163,632	167,847	177,655	184,894	189,600	199,135	214,802	231,596
U. Arkansas, Fayetteville	134	113,909	120,007	123,199	125,501	125,824	133,660	145,020	157,791	175,498	180,225	165,887	164,443	184,080	221,525	230,626
U. New Hampshire	135	115,562	143,002	165,156	147,446	147,544	144,735	145,015	145,375	146,430	148,980	156,901	167,373	206,392	223,683	230,224
U. Arkansas for Medical Sciences	136	119,518	122,066	129,056	133,677	131,438	132,451	125,378	128,508	139,187	153,135	174,549	194,709	205,493	209,409	226,842
U. Louisville	137	189,090	197,438	196,842	186,772	183,376	163,262	172,907	177,588	176,655	177,862	198,818	200,362	229,582	220,568	224,969
U. Alabama, Tuscaloosa	138	40,762	53,633	55,885	55,443	53,140	58,234	62,549	63,282	71,992	83,317	95,200	129,509	163,204	184,880	221,235
U. California, Santa Cruz	139	143,919	155,617	155,516	150,777	151,734	151,713	151,192	124,344	127,538	142,958	150,400	160,615	176,760	203,883	218,426
North Dakota State U.	140	126,419	134,064	135,493	150,173	154,437	153,542	156,297	153,119	145,669	152,381	155,645	164,050	174,904	190,330	199,885
U. Maine	141	111,282	111,600	92,135	77,583	101,247	79,500	79,222	99,502	106,694	129,913	134,183	146,801	171,931	188,690	198,870
Syracuse U.	142	107,024	83,686	85,649	70,967	66,321	69,896	84,651	145,705	147,751	154,366	149,652	151,717	157,407	183,850	198,750
U. North Dakota	143	76,560	74,882	80,149	68,942	67,595	64,384	70,275	102,823	109,865	110,836	111,663	143,506	147,717	182,195	197,428
U. Nevada, Reno	144	95,423	89,740	85,726	89,797	87,324	90,138	95,475	105,869	144,426	152,128	159,790	175,386	181,782	188,505	194,131
U. Mississippi	145	110,020	122,765	121,731	108,168	109,922	94,040	121,665	134,542	137,521	158,809	122,960	116,175	152,903	172,176	189,910
U. Texas, Dallas	146	82,044	93,230	90,700	98,842	99,727	98,551	106,205	113,205	113,315	126,661	132,192	122,825	130,914	146,779	181,795
San Diego State U.	147	99,137	106,591	92,867	86,733	95,674	93,572	90,722	89,187	88,177	92,964	97,710	107,681	129,762	158,013	181,600
U. Oregon	148	94,107	103,019	105,030	94,522	91,203	79,698	100,754	95,974	111,896	110,664	114,259	139,193	160,500	164,500	174,785



Table 13. Higher education R&D expenditures at institutions in the standard form survey population, ranked by FY 2024 R&D expenditures: FYs 2010–24

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
New Jersey Institute of Technology	149	92,318	100,491	102,851	107,310	106,081	110,512	130,812	142,164	162,349	161,232	163,447	166,587	167,135	161,078	171,741
U. Texas, San Antonio	150	56,279	58,667	57,233	53,626	47,061	54,949	59,831	70,163	72,682	84,326	138,586	145,362	147,629	158,453	171,528
Drexel U.	151	118,349	115,020	116,768	123,813	131,170	128,027	127,909	138,577	155,908	149,481	143,123	152,752	151,903	169,583	170,205
U. Wyoming	152	55,319	57,549	65,611	65,490	51,422	56,996	112,056	125,032	113,063	80,353	93,061	93,202	139,764	150,124	167,306
Augusta U.	153	na	na	na	64,033	64,118	67,737	71,338	99,661	99,081	96,502	103,961	116,480	127,313	139,121	166,219
Texas State U.	154	30,560	33,487	36,664	37,053	39,265	47,694	54,298	60,741	64,322	64,554	70,714	72,510	110,102	141,291	165,047
SUNY, Binghamton U.	155	72,057	72,539	81,000	76,005	71,382	79,895	85,192	98,089	113,851	104,297	117,870	124,565	130,882	141,685	160,644
Brigham Young U., Provo	156	32,997	37,142	33,843	36,562	38,051	39,126	42,304	43,406	40,755	39,582	38,569	43,916	45,610	137,748	158,319
U. Texas, El Paso	157	68,870	74,069	79,649	83,249	79,537	89,418	91,330	94,565	91,032	106,809	108,628	109,410	130,501	145,724	157,574
U. Alabama, Huntsville	158	75,683	75,724	87,388	101,016	89,325	88,439	96,865	94,376	99,405	109,744	131,648	149,792	169,532	163,428	154,494
U. Texas, Arlington	159	71,414	72,483	78,556	86,735	89,175	77,798	87,386	97,197	105,688	123,858	133,793	126,477	133,770	147,265	153,780
U. Maryland, Baltimore County	160	87,156	91,657	74,993	71,819	67,833	68,688	70,166	70,406	71,481	80,632	83,867	84,418	110,319	144,262	150,908
U. Montana, Missoula	161	63,540	60,159	59,313	60,189	55,032	60,485	70,059	85,044	90,563	104,665	110,218	121,571	125,603	133,958	143,810
New Mexico State U.	162	157,872	139,062	141,151	142,365	134,262	132,377	106,282	102,218	96,270	101,457	107,275	110,580	121,472	126,337	142,872
U. Idaho	163	87,207	96,229	97,227	95,891	95,594	97,493	102,457	109,537	111,590	113,107	112,810	105,895	115,603	135,901	140,413
Rensselaer Polytechnic Institute	164	83,952	84,834	92,720	92,495	105,608	102,841	101,127	104,797	100,856	103,739	122,753	119,056	121,809	121,706	140,247
Rush U.	165	73,398	79,212	80,300	81,770	80,551	79,048	73,351	74,062	89,101	96,267	94,438	107,398	114,874	132,394	139,295
U. Rhode Island	166	90,016	102,630	114,323	101,898	91,706	93,828	97,900	101,871	104,490	115,160	109,967	129,296	129,102	144,013	137,462
Baylor U.	167	10,925	12,343	10,161	13,616	20,729	24,642	26,767	29,400	31,936	33,304	39,765	48,809	66,014	82,074	134,876
Cold Spring Harbor Laboratory	168	ne	89,913	84,072	78,236	76,733	84,653	88,943	97,288	115,870	126,773	115,198	114,903	118,034	117,483	126,502 i
U. Tennessee, Health Science Center	169	81,904	81,220	77,754	71,902	67,841	65,771	71,547	73,393	79,460	96,979	99,716	109,562	115,161	130,472	124,771
U. North Texas, Denton	170	31,496	42,475	46,943	49,518	44,180	43,628	37,106	43,789	44,025	78,691	84,239	81,252	93,538	106,665	124,219
U. Massachusetts, Lowell	171	59,345	60,013	60,624	63,136	64,591	70,384	68,494	69,677	72,266	83,996	92,216	94,708	111,144	117,336	120,672
U. Nevada, Las Vegas	172	44,457	39,526	34,543	35,935	39,448	42,000	62,825	66,285	83,800	99,445	105,872	101,009	94,967	98,751	118,049
U. North Texas, Health Science Center	173	38,862	45,943	46,865	44,904	47,002	46,335	50,567	48,476	49,503	50,124	42,766	50,698	72,675 i	94,652	110,499
Colorado School of Mines	174	44,879	48,704	58,836	59,091	59,695	58,349	60,931	59,477	60,372	70,397	78,517	81,443	98,404	104,297	109,905
U. Memphis	175	49,517	48,321	51,194	48,141	55,566	46,675	48,321	49,695	64,297	58,700	69,463	67,092	71,271	100,042	108,862
Brandeis U.	176	71,006	74,889	74,660	76,060	74,992	74,700	73,435	68,437	61,639	60,825	91,355	95,001	102,378	103,653	107,059
Michigan Technological U.	177	63,471	70,089	71,989	70,689	68,526	69,607	72,536	71,629	78,678	80,443	77,927	81,715	91,084	103,819	106,919
Howard U.	178	40,080	42,341	45,486	42,789	40,771	47,322	41,038	45,768	45,965	44,163	44,933	52,412	67,594	84,756	101,815
Boston C.	179	50,537	52,253	51,442	50,702	49,724	47,761	54,469	58,088	57,030	61,956	63,063	65,156	68,958	81,425	96,310
Saint Louis U.	180	46,839	53,179	49,086	48,231	44,481	44,457	42,151	56,402	60,380	66,103	69,528	79,005	82,740	85,921	95,832
U. North Carolina, Charlotte	181	31,814	27,533	25,141	24,764	23,342	24,870	27,815	26,097	39,888	47,187	50,050	51,877	43,126	92,027	94,895
William & Mary	182	57,461	58,919	55,805	57,940	59,015	61,554	63,027	64,127	65,269	64,835	66,763	68,801	75,953	81,815	94,609
Northern Arizona U.	183	28,803	30,785	28,100	30,516	31,590	35,206	39,580	46,253	52,899	58,914	64,456	69,129	66,729	77,533	93,749
U. Southern Mississippi	184	42,059	46,591	60,079	51,962	51,938	51,840	59,363	61,659	61,336	76,464	72,322	67,417	72,477	75,034	93,692
U. Texas Rio Grande Valley	185	na	na	na	na	na	na	31,007	29,500	27,125	52,016	56,702	58,187	64,401	82,444	90,610
Indiana U.-Purdue U., Indianapolis	186	296,194	322,617	316,914	332,760	324,261	55,973	57,853	58,056	60,501	67,635	70,778	65,330	64,162	87,648	88,989

Table 13. Higher education R&D expenditures at institutions in the standard form survey population, ranked by FY 2024 R&D expenditures: FYs 2010–24

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
San Jose State U.	187	38,241	40,149	34,727	38,326	43,509	45,037	41,662	39,192	41,366	44,309	47,301	60,100	71,695	83,406	88,125
Florida Atlantic U.	188	56,472	62,024	65,377	23,967	22,997	21,214	26,750	46,025	48,024	51,085	53,845	58,471	61,748	77,593	87,906
Cleveland State U.	189	34,235	55,502	61,111	67,378	61,783	57,662	77,720	83,762	83,641	80,077	78,189	71,451	81,225	87,941	85,839
Van Andel Research Institute	190	ne	ne	ne	ne	ne	40,502	40,040	44,578	55,171	61,738	58,982	65,789	78,626	80,748	83,309
South Dakota State U.	191	67,552	69,680	68,743	63,843	58,334	58,373	60,677	63,412	63,465	66,794	60,939	51,542	59,590	71,340	82,246
North Carolina A&T State U.	192	35,297	34,930	35,103	33,994	35,047	35,172	33,759	37,379	38,140	37,339	36,151	40,751	47,908	62,307	81,845
CUNY, Graduate Center	193	11,562	11,974	9,173	11,982	7,797	6,175	7,093	8,011	4,781	5,399	4,787	4,265	5,509	54,089	80,831
New Mexico Institute of Mining and Technology	194	51,696	43,857	37,875	32,499	48,338	26,265	19,598	20,491	21,383	24,616	24,591	28,745	89,900	118,735	79,857
Louisiana State U., Health Sciences Center, New Orleans	195	59,776	57,007	53,712	49,443	45,486	46,840	43,067	40,785	38,989	40,914	43,419	44,370	53,995	68,707	79,680
U. California, Office of the President	196	72,542	63,420	65,627	67,447	50,103	48,341	39,051	46,399	55,676	67,702	60,686	50,848	54,640	63,629	79,293
Rochester Institute of Technology	197	38,663	34,889	36,935	36,613	35,945	40,442	45,518	51,263	49,413	58,175	57,777	56,043	62,383	72,405	78,488
American U.	198	39,747	46,611	43,526	61,087	63,628	58,325	57,064	56,034	61,741	71,053	71,839	65,912	67,616	76,041	78,356
U. North Carolina, Greensboro	199	22,436	26,121	19,080	16,590	20,723	23,026	23,965	23,231	22,743	26,325	28,966	37,033	41,303	60,621	77,370
U. California, Merced	200	21,591	21,328	22,656	22,909	23,916	29,688	29,370	35,093	38,226	44,890	45,966	45,964	48,147	62,279	77,233
Touro U., New York <sup>h</sup>	201	ne	1,247	889	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	100,547	76,867
Old Dominion U.	202	97,176	102,192	104,579	99,138	67,037	65,092	70,054	67,990	60,321	67,425	65,704	62,332	64,877	71,334	76,202
U. Massachusetts, Boston	203	56,416	57,040	60,086	60,380	61,186	62,374	64,223	70,019	61,473	62,018	64,219	63,723	65,215	70,978	74,625
Naval Postgraduate School	204	103,510	101,363	132,450	94,880	99,032	89,170	65,529	60,386	59,213	67,323	62,903	65,101	64,055	77,364	73,230
U. Toledo	205	70,399	74,149	68,228	69,072	61,900	52,354	50,019	50,030	50,320	55,006	54,100	53,169	64,654	67,656	73,200
East Carolina U.	206	23,995	28,114	31,990	38,271	29,925	26,549	25,273	26,117	39,074	55,611	57,820	51,662	55,693	67,082	72,539
CUNY, City C.	207	46,699	60,648	57,982	55,138	52,654	53,223	62,484	54,627	53,979	52,738	45,632	57,361	65,569	63,159	71,684
Worcester Polytechnic Institute	208	18,613	22,137	20,232	25,298	29,929	36,130	37,822	33,368	33,067	39,878	43,092	48,702	56,904	66,353	71,552
Stevens Institute of Technology	209	35,544	41,622	31,929	28,908	30,826	34,082	35,765	35,144	33,060	36,695	44,747	43,386	53,563	60,685	70,736
U. South Alabama	210	35,500	42,233	40,172	40,590	41,681	43,722	46,670	41,431	41,056	52,540	51,102	47,610	43,491	53,182	70,084
Missouri U. of Science and Technology	211	42,263	41,581	38,588	40,397	39,065	35,842	35,756	38,243	42,986	47,807	47,001	54,437	53,357	61,496	69,534
Morehouse School of Medicine	212	30,669	33,946	37,586	36,638	41,858	33,367	38,774	36,925	33,215	31,289	29,813	32,637	42,489	57,125	68,746
Florida A&M U.	213	53,474	53,326	52,263	51,149	46,367	46,522	45,390	37,578	39,682	42,470	41,319	47,124	50,636	65,159	68,674
Ohio U.	214	50,440	57,643	57,203	59,734	60,800	61,078	59,117	61,092	53,303	53,735	51,914	49,764	52,465	59,877	67,430
U. Wisconsin-Milwaukee	215	71,181	65,648	61,771	56,587	60,752	63,414	59,813	54,181	55,771	53,773	61,069	55,664	56,822	60,712	66,270
Rowan U.	216	2,987	3,247	3,783	3,407	8,202	8,044	10,212	12,856	16,247	22,892	26,018	26,458	29,949	47,810	63,984
Southern Methodist U.	217	18,742	24,453	24,397	22,544	32,401	29,282	31,819	29,879	31,140	42,562	43,081	41,960	57,544	59,749	62,553
Lehigh U.	218	37,332	32,086	31,992	35,220	37,066	36,788	32,941	36,969	38,674	38,185	38,064	41,279	51,769	56,301	62,406
Western Michigan U. and Homer Stryker M.D. School of Medicine	219	26,391	25,051	21,073	18,979	18,942	19,679	18,927	22,372	21,184	25,071	24,541	25,314	27,768	45,157	62,063
Southern Illinois U., Carbondale	220	69,924	71,130	71,097	70,854	65,256	57,509	53,172	48,416	49,636	41,729	41,617	47,210	46,967	58,291	61,460
Loyola U., Chicago	221	43,903	42,708	45,903	51,676	50,774	48,664	42,672	39,738	39,332	39,223	39,365	44,036	46,169	52,445	61,454
U. Puerto Rico, Medical Sciences Campus	222	39,134	64,017	45,649	43,374	40,444	43,316	46,232	42,423	41,216	45,014	37,217	44,111	47,578	61,235	61,453

Table 13. Higher education R&D expenditures at institutions in the standard form survey population, ranked by FY 2024 R&D expenditures: FYs 2010–24

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Kent State U.	223	26,331	27,455	26,507	23,149	25,666	38,069	34,661	42,003	42,792	47,188	50,307	50,408	52,175	58,984	61,437
Nova Southeastern U.	224	10,116	12,322	12,908	12,712	13,716	14,775	19,559	22,508	23,296	24,567	26,035	24,513	31,189	50,173	60,629
SUNY, Upstate Medical U.	225	43,824	39,988	35,897	34,286	33,460	32,453	31,892	35,551	36,674	38,091	41,557	44,870	50,586	53,219	59,482
Boise State U.	226	18,731	24,204	27,920	25,690	26,568	31,341	32,085	34,992	41,382	39,824	43,307	46,065	47,617	52,989	57,749
Catholic U. of America	227	21,454	25,397	24,971	23,235	22,331	24,265	25,139	24,282	25,497	24,484	25,221	35,548	38,191	50,433	57,705
U. Missouri, Kansas City	228	30,163	32,769	29,227	28,829	29,164	26,595	26,292	25,123	25,136	31,956	36,356	33,855	52,657	54,565	57,030
U. Denver	229	15,748	17,004	15,237	19,262	18,183	16,116	21,326	22,289	27,270	36,551	41,349	38,751	45,561	53,484	55,630
Morgan State U.	230	12,804	12,803	17,751	15,475	15,720	13,577	15,727	14,978	12,993	13,253	17,193	20,628	29,482	43,868	55,506
Air Force Institute of Technology	231	31,259	31,879	32,746	27,592	23,902	26,866	29,998	35,733	33,360	34,016	35,584	45,703	44,391	56,848	54,204
U. Maryland Center for Environmental Science	232	42,670	50,007	48,224	53,683	50,814	52,235	54,974	55,078	54,136	56,033	54,560	51,201	53,718	53,233	54,036
U.S. Air Force Academy	233	62,097	73,607	56,044	57,164	44,663	38,326	55,358	48,287	35,925	43,941	42,197	32,086	36,506	44,880	53,158
Texas Tech U., Health Sciences Center	234	51,282	58,774	61,219	61,412	38,015	40,438	40,235	39,767	37,819	44,072	44,135	41,583	46,574	48,638	52,986
Texas A&M U.-Corpus Christi	235	17,266	17,509	15,776	17,418	21,321	24,507	24,786	27,993	30,253	32,944	32,284	30,500	36,014	39,305	52,175
Portland State U.	236	56,533	58,975	58,489	55,435	54,787	53,872	56,572	48,964	46,911	50,045	43,667	41,311	41,483	46,324	51,677
Kennesaw State U.	237	1,854	1,961	3,511	5,062	2,192	4,762	8,279	9,510	11,214	12,850	17,954	18,880	21,705	32,497	51,575
Marquette U.	238	14,310	19,876	18,606	20,856	23,633	24,816	28,422	30,034	32,471	37,777	37,136	37,087	40,638	47,819	49,099
Chapman U.	239	3,830	3,547	3,314	4,463	4,794	5,353	6,554	10,626	14,141	19,592	26,660	25,820	34,212	41,791	48,308
Mercer U.	240	27,298	29,039	31,376	28,892	30,209	32,838	31,735	29,447	34,197	44,128	49,116	51,989	50,222	45,247	46,504
Georgia Southern U.	241	3,704	3,912	5,719	18,069	20,245	17,152	17,395	16,084	12,978	11,166	12,166	37,201	36,362	40,026	46,093
CUNY, Hunter C.	242	38,900	39,772	41,022	40,059	38,879	36,368	37,094	31,273	33,702	37,478	38,345	33,816	35,348	37,172	45,223
Montclair State U.	243	2,255	3,621	5,123	4,568	4,266	4,274	5,207	5,796	7,980	15,588	17,636	17,390	32,202	38,209	43,798
Delaware State U.	244	15,200	19,019	15,668	17,295	17,679	15,980	21,320	20,793	21,377	23,017	23,105	23,193	29,016	33,499	43,724
U. West Florida	245	17,757	21,710	16,221	19,332	19,579	31,232	40,815	35,054	41,035	38,555	37,397	36,837	38,870	40,454	43,503
East Tennessee State U.	246	9,869	10,249	11,213	8,919	7,836	6,930	7,982	9,493	14,043	14,197	13,925	18,449	23,420	42,335	42,526
U. Massachusetts, Dartmouth	247	25,725	25,644	22,732	27,326	28,219	26,776	26,824	26,102	26,626	28,036	26,836	28,729	33,136	42,018	42,352
San Francisco State U.	248	25,615	26,198	30,291	33,885	29,457	26,345	28,273	29,940	30,903	31,888	33,828	35,768	36,617	34,466	42,000
Marshall U.	249	24,501	26,723	18,998	19,617	20,382	19,936	20,687	18,348	20,050	19,622	22,250	23,620	25,692	33,693	39,178
SUNY, C. of Environmental Science and Forestry	250	26,916	25,024	23,132	21,239	19,027	22,051	24,504	27,923	26,610	29,137	29,296	28,440	32,904	32,682	38,661
Oakland U.	251	12,856	15,868	18,194	16,767	15,196	17,108	16,001	14,561	13,817	18,002	12,949	20,261	38,061	37,263	38,508
California Polytechnic State U., San Luis Obispo	252	19,732	16,532	17,412	16,067	15,096	16,312	18,081	17,979	16,352	25,249	26,605	25,953	33,155	35,830	38,133
Illinois Institute of Technology	253	36,554	44,463	32,576	36,722	31,356	34,336	29,826	32,659	33,280	34,334	29,122	29,698	29,791	33,021	37,990
SUNY, Downstate Health Sciences U.	254	32,512	41,993	43,257	39,354	33,331	28,652	33,735	31,873	34,661	36,015	33,204	34,459	30,918	35,600	37,322
Tennessee Technological U.	255	16,754	13,247	10,233	9,715	10,097	11,082	11,528	12,079	12,765	13,801	14,085	15,387	16,398	20,797	36,399
U. Nebraska, Omaha	256	8,951	9,509	8,376	9,181	9,222	9,422	10,459	12,061	12,943	14,302	16,134	19,006	24,259	30,841	35,134
Tennessee State U.	257	12,432	13,468	15,439	16,177	20,068	19,955	19,520	18,108	17,681	15,236	25,942	21,977	18,012	28,246	35,017
Embry-Riddle Aeronautical U.	258	12,189	16,289	19,376	16,484	15,393	11,942	16,761	13,335	16,767	12,478	17,786	19,830	28,650	27,451	35,014
Northern Illinois U.	259	27,036	21,748	21,823	23,027	16,427	17,722	21,225	19,150	23,280	26,570	25,420	25,261	27,068	29,134	34,467

Table 13. Higher education R&D expenditures at institutions in the standard form survey population, ranked by FY 2024 R&D expenditures: FYs 2010–24

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Illinois State U.	260	18,417	17,833	17,760	17,589	19,159	18,742	20,408	20,080	21,055	27,082	31,539	24,152	25,510	32,961	34,238
Teachers C., Columbia U.	261	17,167	18,406	20,805	19,649	20,538	23,269	24,124	24,194	24,477	24,865	22,630	24,335	30,978	34,183	34,096
California State U., Sacramento	262	15,207	16,344	14,053	15,564	13,136	17,930	20,676	21,106	21,429	23,544	24,939	23,699	23,795	28,027	33,952
California State U., Long Beach	263	15,494	14,595 i	13,696 i	12,796	10,097	8,830	16,390	18,805	22,880	18,664	16,684	15,134	17,807	21,458	33,897
California State U., Fullerton	264	21,776	28,186	22,222	18,478	7,919	5,611	5,755	5,510	6,348	7,173	5,929	9,006	16,642	25,811	33,709
U. Puerto Rico, Rio Piedras	265	30,515	32,582	33,099	29,234	28,793	28,579	23,491	21,204	17,085	24,088	22,895	28,896	28,083	29,202	33,659
Villanova U.	266	10,066 i	10,044	8,547 i	7,049	13,700	14,512	14,903	19,037	20,730	22,837	25,505	24,723	25,955	31,513	33,090
U. Tulsa	267	23,387	19,489	20,270	21,757	27,077	25,066	22,347	20,879	20,072	18,648	18,787	17,187	17,416	24,845	32,802
Desert Research Institute	268	34,367	35,331	33,056	27,695	23,778	22,103	29,422	29,440	27,875	26,991	26,428	26,365	28,478	30,716	32,250
Louisiana State U., Health Sciences Center, Shreveport	269	30,817	31,021	29,365	28,266	25,004	24,069	23,353	22,560	24,463	26,262	25,321	24,600	29,502	35,624	31,887
CUNY, Queens C.	270	16,845	23,219	22,399	19,762	23,434	19,092	19,168	15,936	16,676	18,391	16,470	16,063	21,434	25,492	31,845
Texas A&M U.-Kingsville	271	17,378	17,114	17,419	18,653	21,819	20,894	21,309	22,633	21,150	22,268	22,745	23,578	23,451	26,401	31,751
Prairie View A&M U.	272	12,565	15,243	14,552	13,198	12,292	13,123	12,616	13,982	17,278	18,018	18,723	17,582	20,429	21,791	31,632
Louisiana Tech U.	273	26,020	27,583	26,546	24,949	22,942	23,827	23,104	22,741	24,655	26,143	26,585	27,417	26,591	31,676	31,247
U. Minnesota, Duluth	274	21,150	23,400	21,530	21,383	21,904	27,550	27,528	24,956	25,189	27,530	26,137	23,767	23,362	25,534	29,901
Tuskegee U.	275	15,581	15,685	15,991	21,150	24,945	20,740 i	16,535	16,535	16,535	20,562	20,973	21,355	21,941	25,625	29,720
Creighton U.	276	27,700	31,443	32,594	29,983	25,560	23,825	23,510	24,315	20,587	24,039	20,339	23,251	27,609	28,443	29,334
CUNY, Graduate School of Public Health and Health Policy	277	na	na	na	na	na	na	na	na	9,751	9,521	12,177	15,035	16,423	26,651	28,637
Miami U.	278	26,521	26,093	26,311	23,924	21,216	16,108	16,057	17,239	19,658	22,380	24,489	25,138	28,799	28,430	28,566
Fordham U.	279	19,289	18,350	19,311	18,822	17,961	20,939	25,374	20,807	20,644	20,287	20,456	16,731	20,432	23,832	28,249
U. South Dakota	280	30,616	28,959	31,982	33,187	30,700	25,661	25,864	28,358	30,943	32,028	29,279	27,537	30,322	29,855	27,908
Eastern Virginia Medical School	281	44,420	36,569	37,745	44,183	43,917	42,296	32,550	28,671	30,010	27,064	20,870	19,415	22,165	23,991	27,891
Texas Christian U.	282	5,306	5,595	7,775	8,574	7,872	8,007	6,589	7,255	5,808	6,552	15,326	15,336	18,353	24,050	27,659
Central Michigan U.	283	7,483	8,671	10,907	12,879	15,015	12,880	14,166	14,652	15,616	17,102	17,448	21,726	25,105	25,363	27,429
California State U., Northridge	284	29,469	25,654	29,491	9,640	12,991	13,333	16,330	17,979	19,618	21,095	21,228	16,573	19,638	26,584	27,009
California State Polytechnic U., Humboldt	285	9,845	9,570	9,510	8,025	8,306	11,218	16,143	15,969	15,044	15,076	14,236	14,103	15,612	18,800	26,607
U. Puerto Rico, Mayaguez	286	26,475	34,424	32,115	29,225	27,152	28,100	25,491	26,130	24,769	26,877	26,553	18,368	18,274	13,989	26,455
U. Texas Health Science Center, Tyler	287	ne	ne	ne	ne	ne	12,191	11,799	16,292	17,949 i	19,606 i	21,265	27,928	33,872	32,077	26,240
Rutgers, State U. New Jersey, Newark	288	27,745	35,774	34,797	37,134	28,083	24,387	21,492	25,898	27,206	26,661	28,006	23,854	28,345	29,787	26,222
Clarkson U.	289	18,584	17,951	14,809	12,061	13,750	13,406	12,983	15,148	16,927	17,147	15,104	16,765	21,703	25,399	26,150
U. Guam	290	5,555	5,626	6,131	6,043	7,075	6,062	7,402	8,842	11,225	12,249	13,043	17,666	20,481	22,388	25,306
Tarleton State U.	291	10,763	10,426	9,393	9,722	10,996	9,825	9,404	10,893	12,503	13,171	14,890	17,729	20,056	23,345	24,875
Jackson State U.	292	44,862	49,998	46,943	36,264	26,609	23,908	23,832	22,790	19,465	18,160	15,081	16,157	17,481	19,457	24,744
U. Alaska, Anchorage	293	16,709	18,620	20,194	20,255	17,150	17,436	19,883	20,861	21,096	21,724	22,713	21,332	21,024	19,850	24,649
U. Akron	294	52,884	60,352	66,413	69,640	69,528	58,512	58,817	41,326	32,582	30,020	23,496	17,340	19,943	21,525	24,568
U. Colorado Denver <sup>C</sup>	295	na	na	na	na	na	na	na	na	na	na	na	18,039	18,080	22,530	24,313

Table 13. Higher education R&D expenditures at institutions in the standard form survey population, ranked by FY 2024 R&D expenditures: FYs 2010–24

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
South Dakota School of Mines and Technology	296	28,572	32,070	19,140	12,156	10,524	14,970	15,396	15,541	15,092	12,973	14,490	15,746	20,061	20,337	23,941
New School	297	5,178	6,420	7,568	9,219	7,160	8,978	17,425	12,740	13,606	13,421	13,186	14,281	19,218	22,680	23,902
Loma Linda U.	298	35,990	39,409	31,772	31,715	23,375	25,519	22,977	21,846	19,892 i	17,938 i	15,984 i	14,029	15,517	22,262	23,898
Florida Gulf Coast U.	299	13,906	17,051	14,393	14,204	9,626	8,992	7,335	6,025	5,115	5,907	6,671	8,197	9,896	24,899	23,841
Meharry Medical C.	300	27,001	29,055	25,559	22,532	18,997	13,998	14,768	16,782	16,980	18,286	13,870	15,840	17,960	22,002	23,691 i
Charles R. Drew U. of Medicine and Science	301	22,152	22,150	20,580	18,547	20,686	14,128	13,360	15,652	11,490	13,739	13,682	13,228	14,581	19,551	23,664
Western Washington U.	302	10,571	9,498	7,597	8,157	8,567	9,921	10,743	13,014	13,075	11,983	14,584	18,033	18,693	21,360	23,275
Albany Medical C.	303	22,953	20,876	17,735	15,093	16,093	18,043	20,166	20,443	21,187	23,028	23,510	22,443	22,297	23,259	23,054
U. North Carolina, Wilmington	304	23,143	22,593	19,722	18,145	14,648	15,564	15,715	16,015	16,955	17,515	16,544	16,656	20,053	21,879	22,672
Wright State U.	305	48,575	48,501	46,213	50,489	54,985	54,289	55,484	59,379	68,035	64,208	49,825	26,259	27,440	26,189	22,647
Montana Technological U.	306	7,424	6,705	11,765	11,059	11,348	11,595	11,851	13,059	12,666	12,731	12,987	14,933	14,188	18,375	22,588
CUNY, Advanced Science Research Center	307	na	na	na	na	na	569	ne	3,541	5,666	8,310	11,373	15,403	16,507	17,309	22,464
U.S. Military Academy	308	22,171	13,799	12,227	11,630	14,819	15,312	13,500	13,617	13,582	10,765	12,473	19,696	20,841	20,493	22,292
New York Medical C.	309	28,400	27,316	23,277	20,243	17,908	17,653	17,311	15,637	16,226	19,398	20,137	18,872	16,461	17,113	21,852
James Madison U.	310	7,038	7,303	8,891	5,835	4,628	3,712	3,303	3,248	4,191	8,726	10,247	14,687	17,021	21,265	21,394
CUNY, John Jay C. of Criminal Justice	311	5,916	6,205	9,319	7,355	8,633	8,689	9,688	11,934	14,310	12,295	13,939	11,791	16,233	22,967	21,156
Bowling Green State U.	312	8,124	8,999	8,566	13,157	8,861	7,995	14,460	14,333	17,991	17,026	18,729	18,619	19,342	20,726	19,615
U. North Florida	313	8,041	9,379	7,031	4,480	3,674	3,689	5,141	6,476	9,994	12,341	13,573	15,782	18,394	23,269	19,318
U. New Orleans	314	35,021	35,359	28,450	24,607	20,614	18,960	15,719	15,939	14,437	15,328	16,594	16,979	21,911	20,396	19,311
Towson U.	315	3,052	3,574	2,599	2,800	2,997	3,153	2,303	2,834	3,194	3,423	3,612	3,794	8,788	17,198	19,215
Texas Southern U.	316	7,003	6,318	6,380	6,548	6,038	5,005	4,495	4,722	3,740	4,893	10,138	9,128	12,120	16,287	19,045
Long Island U.	317	832 i	877 i	890 i	915	ne	ne	1,420	2,290	2,405	5,113	13,997	15,059	17,183	16,612	18,759
Duquesne U.	318	15,804	16,814	15,547	15,661	15,025	16,159	17,089	17,197	17,420	16,947	17,485	10,521	13,944	14,989	18,348
Florida Institute of Technology	319	12,054	14,523	17,100	13,298	14,255	14,282	18,860	18,180	17,378	17,876	18,271	23,195	17,706	16,859	17,842
Southern Illinois U., Edwardsville	320	31,781	33,736	26,992	25,807	18,915	19,051	18,780	17,393	18,420	18,088	18,273	18,044	19,152	21,927	17,673
Idaho State U.	321	20,495	21,450	21,179	22,147	20,610	17,866	20,447	18,564	18,081	14,972	14,478	13,953	16,615	17,548	17,494
Sam Houston State U.	322	7,555	5,816	4,349	4,608	3,996	3,086	3,266	3,658	7,152	9,445	12,437	13,315	12,009	11,760	16,716
Alabama A&M U.	323	30,497	30,238 i	29,979 i	29,720 i	29,461 i	29,202	25,112 i	21,022 i	16,932 i	12,840	8,749	9,180 i	9,611	15,588	16,248
North Carolina Central U.	324	6,870	9,496	11,076	8,979	11,537	12,448	12,463	14,119	14,942	16,227	15,833	14,105	16,600	16,406 i	16,212
Missouri State U.	325	7,770	5,584	4,340	3,882	3,782	3,540	3,069	3,215	4,409	5,910	13,131	10,014	11,162	14,654	16,103
Oklahoma State U., Center for Health Sciences	326	4,398	2,815	2,122	2,137	1,805	1,625	2,182	2,454	2,608	5,408	8,378	7,758	8,368	12,500	16,054
Xavier U. Louisiana	327	8,029	9,849	10,606	8,789	9,346	9,588	12,084	12,424	11,784	10,152	11,387	12,799	14,156	15,519	15,955
Texas Tech U., Health Sciences Center, El Paso	328	ne	ne	ne	ne	23,282	18,889	17,391	16,479	12,556	11,883	10,421	11,360	14,206	13,189	15,603
Loyola Marymount U.	329	4,557	6,455	5,746	6,766	7,635	6,389	7,504	7,071	7,911	7,272	7,193	12,819	12,773	14,086	15,570
CUNY, Brooklyn C.	330	6,846	9,306	9,216	8,064	9,407	9,091	9,602	7,393	6,600	6,837 i	7,074	6,318	6,220	8,535	15,244
Alcorn State U.	331	10,280	11,397	11,515	11,315	10,060	9,396	8,204	16,129	13,834	14,435	13,710	14,188	16,664 i	19,141	14,844
U. of the Virgin Islands	332	32,350	21,994	25,719	20,041	20,371	20,630	21,215	12,298	11,957	12,236	13,631	15,231	20,259	20,259	14,762
U. Missouri, Saint Louis	333	14,628	18,461	19,356	20,869	18,618	12,061	13,460	12,042	12,266	14,432	15,352	14,632	13,247	12,808	14,698



Table 13. Higher education R&D expenditures at institutions in the standard form survey population, ranked by FY 2024 R&D expenditures: FYs 2010–24

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
U. Hawaii, system office	334	ne	ne	ne	ne	ne	ne	ne	ne	12,340	12,159	13,568	12,918	12,646	14,172	14,542
Salisbury U.	335	3,503	1,852	6,891	6,959	7,923	7,960	8,473	7,731	9,119	9,368	9,496	10,552	10,614	14,557	14,422
California State U., Fresno	336	8,698	8,597	8,359	7,682	8,109	8,624	8,586	8,102	8,988	8,599	8,856	9,213	12,603	11,411	14,410
California State U., East Bay	337	1,312	1,644	1,039	934	ne	ne	837	ne	ne	ne	9,072	10,852	19,035	21,312	14,307
California State Polytechnic U., Pomona	338	6,493	7,198	6,597	6,988	5,455	4,611	5,254	5,863	8,043	6,099	7,396	7,011	7,909	10,722	13,685
Midwestern U.	339	3,626	4,022	5,200	6,292	7,310	8,560	7,732	9,207	10,173	10,343	10,479	10,961	11,069	12,725	13,632
Kentucky State U.	340	4,912	4,562	6,859	5,605	5,694	6,017	7,178	8,151	i	9,125	8,433	7,963	8,756	9,284	11,591
Clark Atlanta U.	341	8,515	8,245	10,406	9,159	9,192	9,945	8,513	8,007	7,833	9,048	8,452	8,892	8,791	10,320	13,424
U. Maryland, Eastern Shore	342	8,692	8,664	7,309	8,826	8,982	9,700	8,250	7,403	4,941	7,133	8,092	8,636	9,274	10,730	13,422
Langston U.	343	4,492	5,206	5,326	4,932	8,512	8,126	11,178	11,025	i	10,872	i	10,719	14,409	6,345	10,505
Virginia State U.	344	7,466	8,562	10,296	9,535	8,374	7,808	8,147	10,725	10,673	11,457	10,014	10,123	12,326	13,504	13,271
Ball State U.	345	20,477	18,765	11,740	10,357	9,209	10,548	11,763	8,797	11,163	12,145	9,429	8,826	9,932	11,650	13,095
Northeast Ohio Medical U.	346	10,819	13,581	13,358	12,722	15,916	17,103	18,823	19,216	18,231	18,016	15,758	13,853	13,465	13,116	13,049
California State U., San Marcos	347	5,788	6,795	i	7,802	i	8,809	8,302	6,432	6,634	6,549	8,348	10,595	13,250	10,213	9,238
Clark U.	348	7,111	6,861	7,260	5,693	6,168	7,050	6,970	8,453	8,318	10,193	10,277	7,931	8,813	11,539	12,707
Winston-Salem State U.	349	ne	1,179	1,977	841	ne	ne	1,356	1,575	1,629	2,011	5,781	8,123	10,436	8,668	12,650
U. San Diego	350	2,934	3,483	4,275	4,554	5,146	4,476	4,734	5,089	5,642	6,036	8,607	7,580	10,143	12,902	12,649
South Carolina State U.	351	7,167	10,037	i	12,909	12,809	i	12,709	i	14,300	15,130	i	3,659	4,697	i	5,735
U. Michigan, Dearborn	352	6,779	7,554	6,015	6,846	8,176	7,802	7,904	8,315	8,094	8,813	8,777	7,472	8,180	10,839	12,460
U. Tennessee, Chattanooga	353	10,749	9,251	10,896	7,844	6,239	6,817	5,600	6,352	7,585	9,280	10,834	11,192	12,808	14,671	12,104
Rosalind Franklin U. of Medicine and Science	354	12,426	14,261	15,587	17,401	17,794	16,604	16,760	17,006	16,765	16,126	14,601	13,805	12,988	11,629	11,769
Fort Valley State U.	355	5,310	3,850	3,665	3,688	4,547	4,320	5,138	5,374	3,916	4,563	4,921	4,842	9,969	15,536	11,727
California State U., Monterey Bay	356	5,305	6,959	6,567	6,129	4,787	5,492	5,680	5,397	5,799	6,444	5,874	6,882	8,975	10,678	11,717
West Texas A&M U.	357	7,346	5,847	6,937	5,510	5,407	4,513	4,048	4,943	4,797	5,437	6,220	9,920	9,438	10,302	11,616
Central State U.	358	3,233	3,821	3,591	2,771	2,025	1,508	1,643	2,008	3,615	3,766	6,107	8,751	10,274	11,123	11,459
California State U., San Bernardino	359	4,188	11,591	9,303	11,942	13,582	15,317	10,771	12,924	16,702	16,062	10,819	11,607	11,929	13,152	11,339
Appalachian State U.	360	2,898	3,835	4,438	3,051	4,289	3,878	3,146	4,475	3,631	3,268	4,894	4,509	7,189	8,479	11,293
Western Kentucky U.	361	9,943	8,344	10,639	9,322	8,280	7,854	8,926	10,814	9,617	9,281	8,241	6,944	7,720	9,298	11,213
Eastern Michigan U.	362	14,133	11,643	12,437	3,128	1,428	1,761	3,815	6,281	6,600	7,175	9,088	7,233	8,025	8,363	11,202
Western U. of Health Sciences	363	1,786	1,768	3,005	3,721	5,474	4,904	6,895	6,187	5,140	4,951	5,899	6,688	9,029	8,929	11,190
U. San Francisco	364	2,124	2,668	4,301	2,663	2,764	2,599	2,365	2,602	2,741	2,712	2,161	1,375	2,657	9,633	10,962
Arkansas State U., Jonesboro	365	11,115	13,435	14,250	10,463	8,099	8,453	8,169	7,952	8,245	8,945	8,640	8,422	8,214	7,323	10,950
California State U., Los Angeles	366	7,714	8,823	7,192	7,659	5,172	5,010	5,371	8,274	9,594	12,476	10,590	9,382	9,839	10,186	10,889
Pepperdine U.	367	2,672	1,924	2,571	2,400	2,401	2,714	3,178	2,396	1,954	2,170	2,006	2,655	3,775	10,632	10,870
Wesleyan U.	368	8,397	10,367	8,945	8,120	7,262	7,223	7,740	8,945	10,662	9,958	8,300	8,009	10,101	10,828	10,819
Hampton U.	369	14,455	12,414	15,356	12,641	11,169	14,895	14,225	16,482	14,424	13,605	11,402	11,669	11,462	9,769	10,660
U.S. Naval Academy	370	11,093	10,543	9,610	10,816	10,861	9,609	11,374	13,541	14,057	13,621	13,123	10,818	10,664	10,920	10,592
DePaul U.	371	4,889	5,798	5,706	5,524	6,415	9,479	9,558	8,561	7,079	6,144	6,557	6,675	8,362	13,267	10,522

Table 13. Higher education R&D expenditures at institutions in the standard form survey population, ranked by FY 2024 R&D expenditures: FYs 2010–24

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
U. Arkansas, Little Rock	372	11,007	12,039	10,500	13,107	8,068	7,003	7,604	6,833	8,167	9,975	9,711	7,397	7,530	8,685	10,461
Saint Joseph's U.	373	2,918	3,073	2,955	2,921	1,988	2,093	2,171	2,409	2,151	2,851	3,150	2,922	9,041	8,675	10,451
Hofstra U.	374	2,552	2,472	3,237	2,394	3,102	2,585	2,440	1,702	1,662	1,744	1,445	5,545	6,939	8,162	10,425
Yeshiva U.	375	314,240	281,334	289,027	271,166	306,826	306,174	46,130	3,258	3,302	2,420	2,763	5,452	7,274	8,661	10,290
MGH Institute of Health Professions	376	ne	607	ne	ne	ne	3,931	2,548	2,282	3,328	4,130	3,549	3,037	5,805	7,426	10,029
Rutgers, State U. New Jersey, Camden	377	3,574	5,079	3,810	5,722	4,919	5,123	4,250	5,103	3,264	3,211	3,950	5,142	6,480	9,527	9,849
Purdue U., Northwest	378	na	na	na	na	na	na	na	8,924	8,062	5,272	5,839	5,647	6,387	7,504	9,549
Gallaudet U.	379	7,652	7,161	6,765	6,769	5,655	4,477	6,947	7,603	7,617	5,382	4,599	6,126	6,360	9,894	9,524
Kean U.	380	ne	1,497	2,029	761	ne	1,064	908	ne	ne	ne	2,201	3,538	5,499	10,062	9,479
Seton Hall U.	381	4,003	7,701	6,398	6,489	6,675	7,058	7,244	7,272	6,536	7,056	5,718	5,320	5,741	7,068	9,477
U. of the District of Columbia	382	5,012	4,422	4,030	3,073	2,361	2,043	3,469	3,733	2,960	4,800	4,590	8,104	10,779	7,945	9,386
Lincoln U., Jefferson City	383	8,475	8,518	7,899	6,585	6,742	6,296	5,826	5,164	4,215	4,581	5,777	7,621	11,500	8,196	9,261
Texas Woman's U.	384	2,271	2,919	4,129	2,704	2,650	2,310	3,014	4,073	4,822	4,477	4,135	4,943	6,029	6,922	8,998
Southern U. and A&M C., Agricultural Research and Extension Center	385	ne	6,143	8,122	5,530	5,606	4,761	4,704	5,000	i	5,296	5,448	4,475	6,164	7,048	7,764
California State U., Chico	386	2,881	2,684	2,492	2,868	2,384	1,837	2,363	1,600	2,452	3,232	4,305	4,209	4,177	5,984	8,918
Middle Tennessee State U.	387	4,793	4,969	7,108	5,718	4,334	4,350	6,164	4,714	7,132	7,673	8,697	22,531	22,631	9,577	8,736
Amherst C.	388	3,628	4,623	5,448	i	6,275	4,308	4,412	4,260	4,070	4,849	6,325	4,906	4,636	7,177	8,152
C. Charleston	389	14,218	8,320	9,579	10,224	10,034	10,607	10,189	8,927	7,375	7,610	5,728	6,361	6,421	7,231	8,662
U. Hawaii, Hilo	390	14,857	9,934	22,003	16,009	9,323	14,495	11,287	7,008	7,133	6,864	6,992	7,411	8,001	8,112	8,501
U. Northern Colorado	391	2,607	2,078	2,896	3,034	4,176	3,652	4,028	4,538	5,089	4,571	3,738	3,159	3,308	9,064	8,476
California State U., Bakersfield	392	2,083	3,162	1,241	2,602	2,432	3,192	3,161	4,652	5,577	7,591	7,053	6,253	4,815	6,409	8,457
Lawrence Technological U.	393	3,952	3,348	1,483	2,022	1,876	2,528	1,907	1,942	1,668	1,352	1,521	1,764	3,050	4,632	8,435
Pacific U.	394	1,849	1,129	2,110	2,535	2,122	2,016	2,508	7,770	6,264	8,753	5,842	4,690	6,128	10,719	8,383
Texas A&M International U.	395	2,428	3,121	3,344	3,674	3,441	2,917	3,742	4,745	5,735	6,068	3,067	3,740	4,486	5,602	8,378
U. Wisconsin-Superior	396	5,890	6,187	i	6,041	i	ne	3,030	i	ne	ne	3,068	2,250	2,301	2,602	4,615
Lamar U.	397	5,829	4,762	3,589	2,605	2,447	2,824	2,783	3,883	3,595	4,848	4,327	4,734	5,304	9,168	8,324
Edward Via C. of Osteopathic Medicine	398	ne	2,453	2,576	4,992	2,633	2,237	5,692	8,119	7,601	7,225	7,475	6,629	7,121	7,597	8,132
U. New England	399	3,560	4,016	5,224	6,637	7,650	7,498	7,566	8,064	6,700	7,346	6,886	6,234	6,664	6,756	8,093
Santa Clara U.	400	3,816	2,407	3,329	2,376	2,883	1,659	2,056	2,145	2,299	2,319	2,682	3,142	4,225	5,679	8,011
U. Arkansas, Pine Bluff	401	8,343	9,415	9,082	8,911	8,198	8,425	8,873	8,136	8,349	9,024	8,540	8,713	7,506	7,766	7,975
U. Washington, Tacoma	402	872	1,359	1,845	2,203	2,938	3,618	3,957	3,246	3,006	3,471	3,504	4,291	5,484	6,243	7,973
Abilene Christian U.	403	662	487	ne	ne	ne	ne	ne	ne	ne	ne	ne	4,597	6,310	8,182	7,868
Benedict C.	404	1,533	3,009	2,754	2,664	2,479	1,373	1,653	1,676	1,934	1,269	649	ne	ne	2,307	7,788
Claremont McKenna C.	405	5,725	5,316	5,365	i	5,414	i	5,463	i	ne	6,094	5,818	5,693	6,214	5,846	4,515
Southern Connecticut State U.	406	3,840	4,083	3,526	2,012	5,465	5,482	3,243	2,493	2,763	4,627	5,413	5,750	6,286	8,007	7,620
Philadelphia C. of Osteopathic Medicine	407	1,278	2,401	1,898	2,614	2,209	2,561	2,458	2,969	3,059	3,162	3,360	6,186	6,667	7,459	7,611
U. Colorado Colorado Springs	408	9,088	7,425	4,727	4,721	5,363	6,988	6,812	6,680	5,976	4,720	5,557	5,338	7,761	7,012	7,528

Table 13. Higher education R&D expenditures at institutions in the standard form survey population, ranked by FY 2024 R&D expenditures: FYs 2010–24

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Marian U., Indianapolis	409	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	3,009	7,524
Smith C.	410	4,613	4,529	4,246	4,234	4,283	5,268	4,466	6,055	5,954	6,041	4,685	4,085	5,831	5,954	7,375
Norfolk State U.	411	5,944	7,140	8,336	6,431	6,936	5,348	7,593	7,296	6,914	8,050	7,153	4,316	3,593	6,194	7,309
Texas A&M U.-San Antonio	412	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,242	1,593	7,149
Grinnell C.	413	2,069	1,340	2,735	4,023	3,974	3,723	4,183	4,953	5,573	5,500	5,826	4,122	5,867	7,597	7,131
Williams C.	414	4,691	4,513	4,518	3,857	4,440	5,679	5,747	5,227	5,506	5,188	4,924 i	4,902 i	5,657 i	6,448 i	7,074 i
Pennsylvania State U., Behrend	415	3,265	3,183	3,374	3,203	4,282	3,737	5,382	3,804	2,760	3,414	1,743	5,509	6,384	7,614	7,054
Grand Valley State U.	416	5,044	6,429 i	7,814 i	9,202	8,198	7,453	6,764	6,917	6,968	6,592	6,792	6,809	6,695	6,231	7,041 i
Wellesley C.	417	8,422	7,242	8,439	9,113	10,127	9,595	11,664	10,326	11,530	8,810	8,088	6,252	6,326	6,320	6,989
Northwest Indian C.	418	2,426	2,744 i	2,847	3,247	2,609	1,631 i	ne	ne	2,154	2,659	3,650 i	4,641 i	5,632	6,184 i	6,988 i
Dine C.	419	ne	959 i	ne	ne	ne	ne	ne	ne	1,238	1,126	347	ne	2,091	3,054	6,960
West Chester U. Pennsylvania	420	5,584 i	8,103	4,591	1,635	2,793	5,009	5,895	7,293	6,340	6,777	6,414	4,433	5,903	6,132	6,870
U.S. Army War C.	421	ne	ne	ne	ne	ne	ne	ne	ne	ne	4,418 i	ne	4,662 i	5,496 i	6,035 i	6,819 i
Texas A&M U.-Commerce	422	2,679	2,242	2,279	2,541	2,833	3,755	2,943	4,227	3,431	3,403	4,166	3,827	4,955	7,029	6,811
Indiana U. Pennsylvania	423	1,376	1,736	1,809	1,280	938	ne	1,241	2,291	6,450	8,119	6,531	6,180	6,313	6,052	6,568
New York Institute of Technology	424	1,785	2,059	3,013	4,007	5,761	4,169	4,114	3,236	3,832	5,820	3,580	4,465	5,555	5,790	6,559
Sul Ross State U.	425	3,039	3,183	2,375	2,159	2,528	2,204	2,015	2,500	2,934	2,352	2,068	3,004 i	3,940 i	4,878	6,546
U. Southern Maine	426	16,358	16,938	13,915	11,725	9,408 i	7,091 i	4,773	7,147	7,414	6,654	5,635	5,480	5,498	5,930	6,545
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	427	ne	2,342	2,562	2,979	3,356	3,089	3,177	3,285	3,502	3,769	3,737	3,776	4,954	5,324	6,480
Barnard C.	428	3,353	4,046	3,684	2,931	2,738	2,916	3,534	3,730	3,458	4,010	3,748	4,632	4,988	6,320	6,361
Oregon Institute of Technology	429	ne	258	ne	ne	ne	2,056	4,027	3,595 i	3,163	4,793	4,267	4,314	5,086 i	5,585 i	6,311 i
Bryn Mawr C.	430	7,476	8,388	9,837	9,452	9,143	11,692	10,867	11,146	10,282	9,846	11,575	8,987	9,123	9,039	6,302
CUNY, Lehman C.	431	3,593 i	3,762	3,228	2,904	3,265	3,130	5,347	4,979	5,556	4,690	4,154	4,181	4,656	5,918	6,259
Roseman U. of Health Sciences	432	ne	840	ne	ne	3,021	3,287	3,433	4,167	3,973	4,176 i	4,380	5,985	6,296	6,065	6,198
Bucknell U.	433	5,456	5,043	4,009	4,297	4,464	4,140	4,516 i	4,892 i	5,269	5,625	5,051 i	4,476	5,259	5,887	6,193
Swarthmore C.	434	2,984	2,994	3,281	3,415	3,528	2,943	3,211	3,569	3,921	4,203	3,544	3,296	4,225	5,620	6,067
West Virginia State U.	435	3,770	4,176	5,087	4,491	7,221	7,365	5,224	6,305	6,535	5,829	5,775	6,565	6,703	5,226	6,059
U. of St. Thomas (MN)	436	1,330	1,316	1,030	1,424	916	ne	1,266	1,241	1,645	1,870	2,679	5,146	2,476	2,280	5,994
CUNY, Baruch C.	437	2,616	2,645	3,605	2,264	2,183	2,451	2,998	2,543	2,817	2,387	2,396	2,521	3,156	4,084	5,977
Providence C.	438	917	758	ne	983	ne	1,329	1,196	1,014	1,215	1,042	1,092	766	ne	5,533	5,924
Alfred U.	439	4,524	6,084	5,451	6,731	4,655	5,193	3,975	3,231	3,641	5,153	2,780	2,660	3,477	4,154	5,915
Morehouse C.	440	7,857	8,485 i	9,113	9,581	7,349	6,180	4,315	3,667	4,531	4,564	4,825	4,533	5,664	5,750	5,903
Naval War C.	441	ne	ne	2,938 i	2,700 i	2,736 i	2,653	3,210	4,240 i	5,270	5,060	5,944	5,542	5,529	5,819	5,868
Fairfield U.	442	9,294	9,892	9,331 i	8,769	9,155	5,750	6,174	8,749	1,742	1,279	1,210	849	ne	4,213	5,839
Trinity U.	443	1,446	1,355	1,611	3,094	2,992	2,633	2,383	3,274	3,244	3,736	3,472	2,905	3,657	5,296	5,838
U. Baltimore	444	4,229	5,944	5,556	5,448	4,990	5,022	5,798	6,851	10,556	12,451	15,054	14,672	6,646	6,615	5,797
California State U., Dominguez Hills	445	2,743	2,780	2,894	4,671	3,614 i	2,557	2,790	1,858	2,043	1,957	2,065	2,690	4,230	5,558	5,762



Table 13. Higher education R&D expenditures at institutions in the standard form survey population, ranked by FY 2024 R&D expenditures: FYs 2010–24

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Occidental C.	446	2,289	1,809	1,592	1,634	2,177	1,544	2,008	1,764	1,445	2,458	2,657	3,587	4,309 i	5,031 i	5,753
CUNY, C. Staten Island	447	3,290	4,188	4,955	3,691	3,731	3,060	3,511	4,250	4,118 i	3,986	3,682	2,860	3,545	4,730	5,737
Pennsylvania State U., Harrisburg	448	2,734	3,460	2,903	2,230	2,557	3,379	2,558	1,654	2,119	2,805	1,866	2,938	2,927	5,159	5,735
Sacred Heart U.	449	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	972	ne	4,733	5,698
U. North Carolina, Asheville	450	2,671	3,157	3,068	2,647	2,150	2,384	3,348	2,863	3,414	4,602	4,789	4,844	5,973	6,761	5,677
Dakota State U.	451	ne	1,015	5,709	1,574	1,446	1,152	2,171	2,284	3,619	3,710	4,412	3,416	4,684	5,253	5,652
U. New Haven	452	ne	2,009	2,723	1,400	1,616 i	1,832	3,822	5,005	5,585	5,062	3,843	4,069	4,548	3,602	5,640
High Tech High Graduate School of Ed.	453	ne	ne	ne	ne	ne	ne	ne	ne	861	ne	3,304	5,032	6,203	5,939	5,585
Hope C.	454	3,596	4,185	3,376	3,559	3,016	2,932	2,811	3,225	3,179	2,745	3,822	5,211	6,355	6,910	5,584
Southeastern Louisiana U.	455	2,561	1,952	2,121	2,067	1,503	2,670	2,128	2,206	2,039	1,971	2,258	1,723	2,407	2,858	5,577
Pomona C.	456	2,924	3,640	3,259	3,679	3,818	3,538	3,691	3,205	2,983	2,985	2,855	2,146	2,589	4,149	5,522
Southern U. and A&M C., Baton Rouge	457	6,865	6,819 i	6,773	4,920	4,812	4,766	4,322	4,043	4,171	4,492	3,849	4,943	4,344	5,201	5,483
U. Washington, Bothell	458	630	2,857	4,285	4,704	7,550	7,657	8,406	10,219	8,097	7,950	7,107	8,311	8,197	5,738	5,320
Reed C.	459	1,904	1,839	1,837	2,395	3,124	3,050	3,213	1,415	2,607	3,240	5,155	5,155 i	5,155 i	5,155 i	5,154
Rhode Island School of Design	460	ne	551	ne	ne	ne	1,013	1,594 i	2,175 i	2,756 i	3,337 i	3,918 i	4,499 i	ne	ne	5,130
Coastal Carolina U.	461	2,404	2,162	2,412	2,516	2,166	1,862	1,779	1,893	1,631	2,042	1,903	2,245	3,724	4,729	5,094
Trinity C., Hartford	462	1,875	1,934	2,102	1,786	2,131	1,717	1,598	2,856	1,672	1,858	1,428	1,775	1,620	4,099	5,074
Austin Peay State U.	463	ne	2,180	2,124	2,067	2,002	2,113	1,823	2,134	2,644	2,285	2,833	2,740	3,149	3,950	5,070
National U.	464	ne	3,134	4,482	4,508	2,154	2,305	2,400	ne	ne	ne	ne	ne	ne	ne	5,022
Carleton C.	465	4,575	5,382	4,957	5,848	5,657	6,746	6,385	6,888	5,515	4,388	3,732	3,800	4,358	4,185	4,993
Toyota Technological Institute, Chicago	466	ne	746	ne	ne	ne	2,543	2,710	2,880	3,251	3,681	5,887	4,967	4,470	4,636	4,982
Citadel Military C. South Carolina	467	ne	415	ne	ne	ne	ne	ne	ne	ne	ne	1,012	2,054	4,993	3,757	4,969
St. John's U., New York	468	1,643	1,786	2,161	2,401	2,507	2,558	2,307	2,542	2,903	2,352	3,282	2,940	3,592	3,955	4,947
Sonoma State U.	469	858	825	ne	1,938	1,714	1,163	693	ne	ne	ne	1,545	2,957	3,774	4,625	4,928
Suffolk U.	470	ne	1,624	1,303	1,551	1,534	1,305	1,492 i	1,679 i	ne	ne	2,106	2,043	1,401	5,164	4,890
Franklin and Marshall C.	471	3,770	3,439	2,997	3,475	3,105	3,888	3,772	4,385	4,769	5,041	3,623	3,722	4,440	4,111	4,815
Claremont Graduate U.	472	7,116	6,589	10,350	9,705	9,540 i	9,375 i	9,210 i	9,045 i	8,880 i	8,715	9,403	7,235	8,382	7,262	4,808
Colgate U.	473	2,851	2,291	3,268	2,704	2,444	2,721	3,219	3,414	3,823	3,756	2,913	3,306	4,343	4,930	4,730
Seattle U.	474	1,337 i	1,274	642	ne	2,692	2,847	2,050	1,623	2,535	2,223	2,060	1,562	1,894	3,949	4,699
U. Wisconsin-Stevens Point	475	6,766	6,171 i	5,576	4,392	3,919 i	3,446 i	2,973	3,420 i	3,867 i	4,314 i	4,764	4,401	3,740	4,589	4,691
Bentley U.	476	ne	ne	ne	ne	ne	ne	ne	562	ne	ne	ne	ne	1,161	3,261	4,639
Fort Lewis C.	477	392	606	ne	ne	ne	ne	ne	ne	ne	1,460	1,370	1,926	2,765	3,372	4,582
U. Detroit Mercy	478	1,148	1,462	970	ne	1,320	1,882	3,654	2,748	4,605	5,210	4,786	4,578	5,186	5,142	4,550
Spelman C.	479	3,181	2,273	2,148	1,602	1,595	1,524	1,929	2,079	2,350	2,751	2,750	2,282	2,686	4,877	4,537
Davidson C.	480	1,493	1,977	1,400	2,337	1,804	2,377	1,521	1,736	1,638	1,777	2,263	2,466	2,788	2,926	4,525
Colby C.	481	1,782	1,772	1,996	1,822	1,673	1,748	1,903	2,071	2,240	1,852	1,536	1,672	2,530	4,454	4,513
Stephen F. Austin State U.	482	9,127	6,046	5,495	4,612	4,298	5,170	4,749	3,677	3,336	3,679	3,672	3,204	3,184	3,661	4,502
U. Central Oklahoma	483	1,786	1,548	1,028	1,067	1,362	7,691	6,275	5,832	5,104	5,682	6,458	5,333	10,384	5,433	4,495

Table 13. Higher education R&D expenditures at institutions in the standard form survey population, ranked by FY 2024 R&D expenditures: FYs 2010–24

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
St. Cloud State U.	484	4,184	3,404	2,932	2,912	3,380	4,192	3,497	3,588	3,725	3,275	3,056	2,379	2,226	2,901	4,416
U. Northern Iowa	485	3,064	4,248	3,615	3,678	3,711	4,032	3,632	3,303	2,983	3,628	2,970	3,259	3,486	4,564	4,409
Monmouth U.	486	2,195	1,956	904	ne	865	ne	900	ne	ne	1,294	1,729	1,667	1,938	2,517	4,340
St. John Fisher U.	487	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	3,690	4,190
Albany State U.	488	740	1,416	2,225	1,658	1,549	1,356	1,496	1,393	1,301	1,491	1,060	880	ne	1,932	4,163
Western Illinois U.	489	1,221	1,528	4,514	1,983	1,349	860	ne	2,006	2,466	2,373	2,461	3,532	4,311	3,824	4,142 i
Haverford C.	490	3,620	2,765	2,588	2,769	2,546	2,633	2,173	2,442	3,041	3,752	4,473	3,835	4,487	4,088	4,103
New Mexico Highlands U.	491	1,529	1,498	1,566	1,209	979	ne	1,111	1,023	952	ne	1,090	1,882 i	2,674 i	3,468	4,074
National Louis U.	492	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	3,993
Keck Graduate Institute	493	ne	2,313	1,920	2,357	2,132	1,722	1,660 i	1,598 i	1,536 i	1,474 i	1,412 i	1,350 i	1,282	4,059	3,972
Fayetteville State U.	494	11,865	14,618	15,719	16,698	14,732	13,746	15,725	5,105	4,980	4,695	2,797	3,933	3,206	3,574 i	3,942
East Stroudsburg U. Pennsylvania	495	ne	250	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,410	2,928	3,916
Alabama State U.	496	13,340	12,340	13,607	1,927	2,236	2,303	2,372	2,253	2,434	2,577	2,582	2,631	3,178	3,229	3,901
Harvey Mudd C.	497	3,214	3,861	3,512	3,595	3,127	3,272	4,332	3,748	3,790	3,353	2,916	2,359	3,350	3,682	3,900
Whitman C.	498	1,415	1,142	849	ne	ne	ne	ne	ne	ne	1,083	865	ne	1,270	1,568	3,891
Des Moines U.	499	855	924	ne	ne	929	ne	1,401	1,416	1,423	1,954	5,021	5,164 i	5,307	3,932	3,889
Lake Superior State U.	500	ne	752	ne	ne	ne	1,170	1,039	1,067	633	ne	ne	ne	2,056	2,545	3,876
California State U., Channel Islands	501	ne	524	ne	1,236	3,862	1,949	1,383	1,096	1,248	1,572	1,497	2,341	3,377	3,992	3,860
U. Nebraska, Kearney	502	1,655	2,199	1,715	1,761	1,504	1,496	1,864	3,510	2,639	2,919	2,640	3,201	4,009	3,681	3,796
Purdue U., Fort Wayne	503	8,523	8,864	8,570	8,128	7,882	7,052	5,952	5,254	4,945	2,416	2,264	2,495	2,134	2,804	3,791
Hawaii Pacific U.	504	ne	1,436	1,390	1,043	1,524	1,241	2,371	2,175	2,114	1,980	1,796	1,849	3,302	2,913	3,784
U. Central del Caribe	505	7,122	7,515	7,313	7,095	7,181	6,964	7,090	5,634	4,111	3,953	3,931	3,831	5,053	4,878	3,780
SUNY, C. of Optometry	506	3,529	3,738	3,466	3,637	3,481	3,906	4,169	3,304	3,120	2,968	3,477	3,460	4,497	4,423	3,776
Vassar C.	507	1,280	1,838	1,258	1,694	1,220	2,854	1,495	1,600	4,185	1,009	1,568	1,606	2,580	2,596	3,775
Christopher Newport U.	508	1,110	1,669	1,327	1,187	1,508	1,208	1,172	1,264	1,732	1,961	2,608	2,656	2,762	3,507	3,764
Bowie State U.	509	ne	1,910	1,739	1,422	1,761	1,497	1,927	1,813	1,839	1,911	1,967	1,398	3,351	2,612	3,731
U. Wisconsin-Eau Claire	510	1,950	1,406	1,362	1,235	915	ne	1,238	1,641	1,227	1,530	1,318	1,852	1,628	2,191	3,730
Roger Williams U.	511	1,967	2,627	2,596	2,186	2,558	2,348	2,441	2,952	1,937	1,852	1,531	1,854	2,156	3,465	3,679
Hamilton C.	512	3,192	3,109	3,069	2,942	2,846	2,291	2,662	2,354	1,796	2,050	1,869	1,747	1,879	3,285	3,664
U. Texas, Tyler	513	5,679	2,766	8,520	5,317	6,894	4,610	2,844	1,837	1,828	2,063	2,007	2,279	3,246	3,487	3,632
Murray State U.	514	3,396	3,718	3,345	2,192	2,080	2,371	2,124	2,459	2,872	3,710	3,019	3,844	3,371	3,193	3,630
New England C. of Optometry	515	1,457	1,751	2,237	2,172	1,234	1,077	980	ne	1,026	1,223	1,150	1,978	1,868	2,491	3,602
U. of the Incarnate Word	516	ne	667	ne	ne	ne	848	ne	ne	1,338	1,800	1,469	1,982	2,064	2,245	3,580
Middlebury C.	517	2,292	2,408	3,031	2,179	1,450	1,599	1,822	2,043	1,895	1,657	1,720	2,927	2,603	2,975	3,576
Saginaw Valley State U.	518	873	1,249	1,094	939	ne	1,220	1,190	1,406	1,640	2,818	2,343	2,428 i	2,862 i	3,143 i	3,552 i
Winthrop U.	519	ne	5,089	7,993	12,495	13,981	10,156	1,993	1,826	2,007	2,189	2,217	2,586	3,424	3,189	3,466
Tougaloo C.	520	2,978	2,753	2,613	2,639	2,285	2,689	2,473	3,030	3,173	3,380	2,102	2,442 i	2,782 i	3,122 i	3,462
National Defense U.	521	ne	ne	ne	5,865	7,682	5,542	6,447	6,293	4,276	4,231	4,583	3,786	3,920	2,494	3,459

Table 13. Higher education R&D expenditures at institutions in the standard form survey population, ranked by FY 2024 R&D expenditures: FYs 2010–24

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
U. Wisconsin-Oshkosh	522	1,556	2,384	2,331	2,167	1,935 i	1,703 i	ne	1,507 i	1,544 i	1,581 i	1,618 i	1,656	1,990	2,087	3,443
Fisk U.	523	7,700	4,849	4,058	6,565 i	9,073	9,854 i	10,635	5,017	2,790	4,748	3,904	4,320	4,000	4,867	3,425
Bowdoin C.	524	2,627	2,877	4,732	4,292	3,126	2,991	3,204	2,340	2,724	2,991	2,719	2,417	2,648	3,339	3,406
Azusa Pacific U.	525	ne	3,620	2,056 i	ne	ne	7,521	8,898	8,430	8,380	5,598	7,068	5,318	3,389	6,097	3,401
Pace U.	526	3,085	3,732	4,214	3,611	4,373	4,647	5,359	5,028	4,282	3,855	4,272	3,649	3,524	4,056	3,348
Troy U.	527	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,692	1,548	2,517	3,785	3,318
Dillard U.	528	8,425	7,936 i	7,448	7,741	6,939	9,387	9,566	7,095	6,573	2,772	2,523	2,528	2,270	2,296	3,317
Northern Kentucky U.	529	2,316	2,397	2,201	1,810	2,052	2,026	1,846	1,649	1,653	2,363	2,693	3,403	3,888	3,790	3,271
SUNY, Oswego	530	783	977	ne	725	ne	ne	ne	1,658	1,982	1,781	1,534	1,003	1,209	1,595	3,242
Minnesota State U., Mankato	531	3,837	2,654	2,082	2,640	3,310	2,294	4,034	2,471	2,943	3,392	2,754	2,170	2,206	3,055	3,235
Furman U.	532	2,311	2,184	2,049	2,199	1,600	1,928	1,869	2,051	2,064	1,628	2,101	2,431	2,650	2,267	3,231
U. Central Arkansas	533	2,670	2,821	3,277	2,913	4,064	3,502	3,453	3,313	3,620	3,477	3,455	3,990	3,684	3,092	3,142
Milwaukee School of Engineering	534	3,944	4,472	4,635	4,376	4,410	4,524	3,930	3,374	3,232	4,026	3,190	3,193	3,545	3,317	3,090
U. Houston-Clear Lake	535	1,279	1,746	1,769	1,542	1,716	1,535	1,578	1,779	1,251	1,370	1,363	1,716	1,800	2,127	3,080
U. Wisconsin-La Crosse	536	4,141	3,862 i	3,583	3,796	3,424	3,615	3,211	3,187	3,569	2,692	2,795	3,001	2,942	2,921	3,068
U. Houston-Downtown	537	1,013	1,351	2,267	1,444	2,414	2,459	1,784	2,397	2,508	2,216	2,299	1,828	1,485	1,967	3,049
CUNY, New York City C. of Technology	538	231	343	ne	ne	ne	ne	ne	ne	2,418	2,711	2,130	1,367	1,955	2,819	3,033
Elon U.	539	ne	1,523	1,658	2,043	2,184	2,608	2,606	2,407	2,486	2,545	1,968	2,032	1,797	2,544	2,997
U. of Health Sciences and Pharmacy in St. Louis	540	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	4,835	5,313	4,280	4,343	2,976
U. Richmond	541	4,052	4,064	4,282	3,351	3,598	3,069	3,047	3,106	2,784	2,783	2,469	2,294	2,670	3,058	2,961
Eastern Washington U.	542	3,266	3,910	2,700	2,115	1,867	2,973	3,368	2,000	2,590	2,024	2,282	1,921	2,437	2,546	2,957
U. Louisiana, Monroe	543	2,884	2,812	2,469	2,781	2,267	1,672	2,441	2,297	2,123	2,364	2,362	2,198	3,128	2,203	2,940
Lewis and Clark C.	544	2,753	2,778	2,246	3,628	4,713	3,873	3,267	3,438	2,811	2,750	3,350	2,281	2,566	2,686	2,924
C. New Jersey	545	850	486	ne	ne	ne	ne	ne	1,078	949	ne	1,464	1,912	3,464	2,641	2,857
Merrimack C.	546	ne	ne	ne	ne	ne	ne	ne	ne	796	ne	503	ne	ne	1,560	2,852
U. Wisconsin-River Falls	547	441	551 i	ne	ne	ne	ne	ne	1,072	923	ne	1,107	999	ne	2,772	2,847
Northeastern Illinois U.	548	711	533	ne	ne	703	ne	ne	1,403	2,442	2,478	2,018	1,913	2,224	2,262	2,844
U. South Carolina Upstate	549	261	439	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	2,764
Skidmore C.	550	2,850	2,113	1,885	1,903	1,811	1,772	1,327	1,859	2,584	3,012	2,412	2,335	1,734	2,384	2,759
Central Washington U.	551	5,159	2,858	2,753	2,122	2,124	2,581	2,751	3,798	3,066	3,223	2,674	2,410	3,176	3,683	2,757
Marymount U.	552	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	2,307	1,298	2,601	2,749
CUNY, system office	553	ne	ne	1,817	1,210	1,088	1,782	1,655	1,114	3,253	2,619	1,704	1,664	2,900	4,296	2,723
Chicago State U.	554	1,598	2,014	565	ne	ne	ne	910	ne	1,154	898	ne	ne	3,701	3,756	2,701
Youngstown State U.	555	4,523	4,732	3,598	3,785	3,464	3,348	2,342	4,439	4,463	4,447	4,120	2,775	4,157	3,244	2,691
La Sierra U.	556	ne	732	ne	ne	1,057	1,165	1,255	2,202	2,227	1,581	1,647	1,517	2,246	2,496 i	2,688 i
Lafayette C.	557	2,089	2,426	1,864	1,947	1,915	1,693	1,553	1,831	1,815	1,554	1,390	1,015	2,059	1,991	2,684
U. Texas of the Permian Basin	558	1,417	1,232	1,707	1,146	1,532	1,725	1,561	1,152	668	ne	2,105	3,504	3,577	2,769	2,682

Table 13. Higher education R&D expenditures at institutions in the standard form survey population, ranked by FY 2024 R&D expenditures: FYs 2010–24

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Black Hills State U.	559	2,883	1,643	2,466	3,061	2,380	2,430	2,833	2,109	1,571	2,031	1,499	1,280	1,987	2,260	2,646
U. Wisconsin-Green Bay	560	1,219	1,239	1,259	1,279	1,299	1,320	1,599	1,510	1,454	2,083	1,982	1,879	2,713	2,801	2,637
Pittsburg State U.	561	1,759	1,687	1,479	1,536	2,475	2,210	2,162	2,255	2,253	2,513	2,173	2,730	2,884	2,979	2,577
U. Illinois, Springfield	562	2,096	2,002	2,370	2,276	1,916	2,070	1,683	2,900	2,164	1,876	3,406	2,612	2,881	2,508	2,552
Virginia Military Institute	563	849	374	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,746	2,350	2,506
Calvin U.	564	5,010	3,113	3,252	3,466	3,051	2,430	1,809	1,456	1,937	1,577	2,107	2,637	3,169	2,555	2,490
SUNY, Buffalo State U.	565	1,935	2,539	2,970	2,106	1,996	2,366	2,221	1,887	1,928	2,124	2,253	1,962	2,172	2,636	2,453
California State U., Stanislaus	566	ne	1,487	1,881	1,342	1,136	1,080	1,248	1,365	1,394	1,477	1,843	2,085	1,966	2,305	2,440
Seattle Pacific U.	567	684	1,633	1,481	1,490	1,125	1,101	1,016	996	ne	ne	ne	ne	ne	ne	2,414
U. Alaska, Southeast	568	1,759	1,274	1,382	1,559	1,512	1,588	1,808	1,621	1,641	1,341	1,264	1,176	1,570	1,822	2,398
Florida Polytechnic U.	569	na	na	na	na	na	212	ne	ne	ne	2,006	1,091	1,269	1,725	2,260	2,391
John Carroll U.	570	1,154	743	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	2,378
Savannah State U.	571	1,874	2,700	1,996	2,613	2,210	1,801	2,267	1,407	1,793	1,720	1,804	1,804	1,888	1,706	2,376
Mount Holyoke C.	572	2,788	3,317	3,323	3,118	3,871	3,826	3,403	3,635	3,027	2,979	2,016	2,026	2,112	2,533	2,372
U. of the Pacific	573	6,120	4,704	5,291	4,563	4,088	2,734	3,013	2,155	3,014	3,078	1,713	1,371	1,835	1,972	2,362
Touro U., California	574	1,221	1,779	2,237	2,155	3,067	3,106	3,466	3,122	3,233	3,543	3,551	3,489	2,561	2,877	2,356
Western Carolina U.	575	2,376	1,451	1,811	1,028	1,048	1,145	1,305	1,474	1,507	2,633	2,696	2,847	2,783	2,543	2,333
Morehead State U.	576	2,145	2,018	2,174	2,631	1,892	1,838	2,399	2,860	2,434	2,028	1,883	1,754	2,880	2,658	2,295
Union C., Schenectady	577	1,984	1,615	1,516	2,402	1,924	1,560	2,150	1,189	1,540	1,740	1,062	1,396	1,479	1,881	2,263
Utah Valley U.	578	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,895	2,015	2,254
Stockton U.	579	ne	1,455	927	ne	1,374	1,452	807	ne	2,560	2,634	4,236	1,246	1,657	2,386	2,253
Manhattan C.	580	498	638	ne	ne	ne	ne	ne	ne	ne	1,190	1,307	1,864	1,641	1,250	2,184
Colorado C.	581	671	1,198	1,248	1,229	1,823	2,247	1,775	2,215	2,560	2,233	2,291	5,467	3,646	2,498	2,178
U. Puerto Rico, Cayey	582	927	1,474	1,916	1,726	1,795	1,521	1,415	1,109	1,359	1,870	1,974	1,881	1,390	1,519	2,173
Alaska Pacific U.	583	434	518	ne	ne	ne	1,246	1,358	1,248	1,544	1,774	1,261	1,036	1,607	1,823	2,168
Bates C.	584	1,590	1,897	2,070	2,514	1,584	2,791	1,781	1,853	1,635	2,135	2,303	2,620	2,468	2,118	2,066
Ferris State U.	585	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,915	2,046
U. Michigan, Flint	586	693	767	ne	ne	ne	ne	ne	1,466	1,237	1,448	1,247	752	ne	ne	2,023
Lipscomb U.	587	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	307	321	ne	1,946	2,011
Nevada State U.	588	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,191	1,744	1,989
Hobart and William Smith Colleges	589	1,434	1,566	1,516	2,238	1,221	946	ne	952	ne	1,919	2,114	1,941	3,228	2,373	1,984
Macalester C.	590	4,389	4,653	1,721	1,457	1,455	1,286	1,562	1,916	1,404	1,808	1,755	1,280	1,691	1,935	1,948
U. Hartford	591	1,137	2,419	2,007	1,807	1,606	1,701	1,803	1,801	1,073	1,528	1,436	1,252	1,090	1,533	1,944
SUNY, C. Brockport	592	831	1,248	1,487	1,321	1,192	1,367	1,335	1,289	1,293	1,390	1,719	1,114	1,500	1,877	1,932
U. Puerto Rico, Humacao	592	1,971	1,976	1,949	1,455	1,145	784	ne	ne	1,168	1,195	1,456	1,321	1,448	2,074	1,932
Northern Michigan U.	594	910	841	ne	ne	ne	ne	1,118	1,339	1,728	1,520	1,523	1,364	1,888	1,871	1,931
Oberlin C.	595	1,985	1,710	1,856	1,670	1,819	1,932	1,305	1,887	1,803	2,076	1,182	776	ne	1,408	1,926
Southern Utah U.	596	ne	241	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,897

Table 13. Higher education R&D expenditures at institutions in the standard form survey population, ranked by FY 2024 R&D expenditures: FYs 2010–24

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Erikson Institute	597	ne	1,212	2,511	2,001	1,321	2,397	3,117	3,965	3,583	2,279	1,992	1,723	2,068	2,414	1,889
Heidelberg U.	598	ne	1,219 i	ne	1,129	1,539	1,109	1,286	1,621	1,280	1,237	1,125	1,725	1,184	1,254	1,876
Norwich U.	599	ne	1,583	1,498	1,825	1,857	1,985	1,249	878	ne	ne	ne	ne	ne	1,637	1,875
Colorado State U., Pueblo	600	413	364	ne	ne	ne	ne	ne	ne	ne	3,107	3,104	2,990	3,117	1,624	1,835 i
SUNY, Geneseo	601	1,373	2,677	2,132	1,201	1,084	1,314	1,750	1,758	1,939	2,139	1,642	2,070	2,091	1,958	1,820
Franklin W. Olin C. of Engineering	602	ne	1,016	1,777	1,157	1,561	2,136	1,762	1,553	1,254	1,655	1,404	1,627	2,554	2,450	1,819
Claflin U.	603	3,252	5,439	5,255	2,661	1,818	1,255	1,772	1,360	1,509	1,746	1,910	1,015	1,179	1,418	1,816
U. North Georgia	604	ne	ne	ne	ne	ne	ne	ne	2,064	2,465	2,068	1,905	1,415	1,734	1,643	1,805
United Tribes Technical C.	605	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,387	1,800
Babson C.	606	ne	696	ne	ne	ne	ne	2,108	1,849	1,917	1,845	2,352	1,286	1,825	1,957	1,783
Biola U.	607	ne	ne	ne	ne	ne	ne	2,418 i	2,499 i	2,622 i	2,792 i	2,868 i	3,003 i	3,260	1,461	1,761
Lincoln Memorial U.	608	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,641	1,756
Andrews U.	609	1,195	854	ne	ne	ne	ne	ne	ne	ne	1,126	1,033	802	ne	1,255	1,751
Dickinson C.	610	2,109	2,050	2,167	1,570	1,612	1,492	1,332	869	ne	1,037	929	ne	ne	ne	1,743
Pratt Institute	611	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	2,547	2,325	1,558	1,709 i
Arcadia U.	612	1,649	1,888	956	ne	ne	ne	ne	ne	ne	ne	ne	889	ne	1,321	1,692
U. Ana G. Mendez, Gurabo	613	6,620	7,098	6,953	6,916	2,694	2,473	2,518	1,777	1,579	3,945	2,049	1,574	1,419	2,132	1,660
Saint John's U.	614	640	891	ne	1,444	1,623	1,372	1,459	1,267	1,208	1,191 i	1,130 i	1,125 i	1,298 i	1,479 i	1,623 i
U. South Carolina, Aiken	615	337	750	ne	1,309	1,133	1,154	1,445	2,961	2,602	2,481	2,590	2,042	2,595	2,250	1,609
Hartford International U. for Religion and Peace	616	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,485	1,599 i
Liberty U.	617	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,780	1,894	937	ne	1,900	1,597
Pennsylvania State U., Altoona	618	671	773	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,215	1,572
St. Edward's U.	619	ne	7,160	5,906	8,040	3,975	9,515	9,325	10,149	10,431	9,650	9,619	9,527	3,393	1,334	1,570
Eckerd C.	620	327	357	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,558
C. of Saint Benedict	621	ne	867	ne	1,347	1,451	1,179	1,305	1,122	1,142	1,126 i	1,069 i	1,064 i	1,228 i	1,400 i	1,536 i
U. Hawaii, Maui C.	622	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	967	ne	1,376	1,518
CUNY, York C.	623	ne	2,180	1,544	999	ne	716	ne	ne	ne	1,621	1,691	1,133	1,912	1,711	1,515
St. Olaf C.	624	1,574	1,130	1,518	1,242	1,353	1,346	1,605	1,539	1,155	1,010	1,032	816	ne	1,724	1,500
West Virginia School of Osteopathic Medicine	625	594	528	ne	ne	ne	ne	ne	ne	ne	ne	1,311	1,255	1,329	1,410 i	1,491
Drake U.	626	1,033	966	ne	918	ne	ne	1,558	1,215	1,103	865	ne	1,488	1,691	1,724	1,485
Willamette U.	627	2,059	1,940	2,652	1,960	1,698	2,007	2,459	3,147	2,723	1,953	1,546	1,817	2,183	1,542	1,470
Kenyon C.	628	428	433	ne	ne	ne	ne	ne	ne	1,227	1,092	908	ne	1,330	1,371	1,466
National U. of Natural Medicine	628	ne	791	ne	ne	ne	ne	ne	921	ne	1,245	1,428	850	ne	1,336	1,466 i
SUNY, C. Plattsburgh	630	1,664	1,098	913	ne	1,008	1,135	1,020	1,003	1,604	1,729	1,452	1,280	1,043	1,722	1,465
U. Virginia's C. Wise	631	481	336	ne	ne	ne	ne	ne	ne	ne	ne	ne	3,310	2,628	1,223	1,464
New C. Florida	632	660	1,046	945	ne	897	ne	ne	998	ne	ne	ne	ne	ne	1,080	1,459
Wheaton C., Wheaton	633	ne	1,187	844	ne	1,302	783	ne	1,270	1,751	2,173	1,322	729	ne	2,403	1,445
Eastern Kentucky U.	634	3,531	3,782	3,404	2,845	2,221	1,681	1,486	1,248	1,142	1,125	1,010	986	ne	1,446	1,435

Table 13. Higher education R&D expenditures at institutions in the standard form survey population, ranked by FY 2024 R&D expenditures: FYs 2010–24

(Dollars in thousands)

[illegible]



Table 13. Higher education R&D expenditures at institutions in the standard form survey population, ranked by FY 2024 R&D expenditures: FYs 2010–24

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Keene State C.	673	ne	2,290	2,338	i 2,387	2,601	966	ne	908	ne	1,061	1,063	919	ne	ne	844
St. Catherine U.	674	ne	484	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	933	ne	824
Northwestern State U. Louisiana	675	1,464	1,189	1,102	1,022	792	ne	1,628	1,373	1,623	2,058	1,940	1,663	1,848	1,323	i 798
Polytechnic U. Puerto Rico	676	ne	360	ne	ne	ne	ne	ne	ne	ne	2,118	813	ne	ne	ne	796
Auburn U., Montgomery	677	351	749	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	779
Palmer C. of Chiropractic, Davenport	678	4,693	4,861	4,507	3,774	2,736	i 1,698	1,510	1,836	1,600	1,650	1,900	2,233	2,050	1,725	750
Berry C.	679	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	670
Bryant U.	680	ne	316	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	558	459
Carthage C.	681	ne	242	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	188
All other surveyed institutions	-	2,213,103	2,656,901	2,664,123	2,584,873	1,938,455	1,955,829	2,006,255	2,117,550	2,224,647	1,248,999	1,203,095	625,584	612,593	20,212	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$2,549,821 thousand in total R&D expenditures in FY 2024.

<sup>b</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>c</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

<sup>d</sup> The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

<sup>e</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

<sup>f</sup> The University of Oklahoma includes expenditures from the University of Oklahoma, Tulsa and University of Oklahoma, Norman and Health Science Center campuses. Due to a reorganization, the campuses began reporting as one unit in FY 2024.

<sup>g</sup> The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

<sup>h</sup> Touro University, New York includes the Lovelace Biomedical Research Institute. In FY 2023, the Lovelace Biomedical Research Institute joined the Touro University System.

**Note(s):**  
Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 5](#).

**Source(s):**  
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

Table 14. Higher education R&D expenditures at institutions in the standard form survey population, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds									
				Federal government		State and local government		Institution funds		Business	Nonprofit organizations		All other sources
All institutions	-	117,554,145		64,639,941		6,076,128		30,150,641		6,355,526	6,685,726		3,646,183
Johns Hopkins U. <sup>a</sup>	1	4,129,264		3,618,064		10,896		185,200		133,402	177,078		4,624
U. Pennsylvania	2	2,167,504		1,018,602		29,860		782,301		172,616	152,751		11,374
U. California, San Francisco	3	2,127,637		1,036,633		46,546		473,695		132,890	165,964		271,909
U. Michigan, Ann Arbor	4	2,110,961		1,165,494		3,715		740,911		104,709	88,134		7,998
U. Wisconsin-Madison	5	1,933,229		930,647		148,556		598,710		46,036	158,015		51,265
U. California, Los Angeles	6	1,896,227		980,183		168,042		368,710		89,042	131,834		158,416
U. California, San Diego	7	1,881,289		1,151,518		76,337		317,049		100,768	110,616		125,001
U. Washington, Seattle	8	1,691,302		1,135,734		49,220		122,931		77,432	228,765		77,220
Stanford U.	9	1,641,961		1,012,767		39,564		207,741		152,221	218,804		10,864
Cornell U.	10	1,613,631		792,078		109,347		315,721		68,312	140,435		187,738
U. North Carolina, Chapel Hill	11	1,598,751		949,913		53,113		419,777		55,872	96,865		23,211
Ohio State U.	12	1,581,570		774,210		69,898		461,917		159,497	67,141		48,907
Duke U.	13	1,580,756		1,039,631		340		197,547		222,655	97,651		22,932
U. Maryland <sup>b</sup>	14	1,539,520		922,237		87,160		434,436		37,805	53,551		4,331
Georgia Institute of Technology	15	1,528,637		1,213,430		138,147		75,634		63,454	28,527		9,445
Yale U.	16	1,519,694		845,058		2,842		432,654		102,886	129,902		6,352
U. Pittsburgh, Pittsburgh	17	1,504,665		967,978		9,876		356,043		39,636	76,290		54,842
New York U.	18	1,500,732		805,148		9,365		346,001		74,378	109,283		156,557
Harvard U.	19	1,494,527		672,947		5,819		525,882		63,568	193,779		32,532
Columbia U. in the City of New York	20	1,449,535		1,076,805		8,607		136,012		92,384	132,354		3,373
U. Minnesota, Twin Cities	21	1,409,710		748,229		89,087		412,003		50,458	38,966		70,967
Texas A&M U., College Station and Health Science Center	22	1,393,825		582,674		285,545		394,343		36,960	54,695		39,608
U. Texas M. D. Anderson Cancer Center	23	1,363,321		282,431		325,677		297,453		262,997	44,980		149,783
Vanderbilt U. and Vanderbilt U. Medical Center	24	1,327,870		809,693		4,834		365,662		86,141	48,347		13,193
Pennsylvania State U., University Park and Hershey Medical Center	25	1,302,971		858,666		55,826		294,157		37,874	31,390		25,058
U. Florida	26	1,272,493		581,252		202,443		358,541		37,093	54,794		38,370
U. Southern California	27	1,264,197		739,426		17,038		260,889		122,970	70,079		53,795
Northwestern U.	28	1,257,859		735,735		5,838		361,296		70,595	68,565		15,830
Emory U.	29	1,246,507		744,597		296		324,469		77,501	96,352		3,292
Washington U., Saint Louis	30	1,243,115		821,852		401		199,087		121,727	98,504		1,544
U. Texas, Austin	31	1,143,917		690,835		36,746		252,904		94,028	59,786		9,618
U. California, Berkeley	32	1,126,782		518,011		56,947		259,116		46,138	113,409		133,161
Massachusetts Institute of Technology	33	1,065,554		595,053		2,631		90,091		181,626	127,564		68,589
Icahn School of Medicine at Mount Sinai	34	1,015,600		693,444		10,618		134,771		83,348	75,892		17,527
U. Arizona	35	1,012,404		471,394		48,878		301,676		25,270	30,945		134,241
U. California, Davis	36	1,005,757		505,442		81,315		282,121		35,486	51,037		50,356



Table 14. Higher education R&D expenditures at institutions in the standard form survey population, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds									
				Federal government		State and local government		Institution funds		Business	Nonprofit organizations		All other sources
Arizona State U.	37	1,003,271		396,431		108,290		337,060		22,795	112,839		25,856
Michigan State U.	38	931,848		474,762		47,478		338,809		26,590	21,677		22,532
Purdue U., West Lafayette	39	931,513		451,802		43,893		280,219		72,672	31,385		51,542
U. Illinois, Urbana-Champaign	40	906,751		511,574		29,114		258,312		45,694	36,634		25,423
Indiana U., Bloomington	41	896,983		456,845		9,409		323,571		35,596	70,012		1,550
Baylor C. of Medicine	42	881,226		453,738		34,007		294,321		42,918	43,311		12,931
U. Texas Southwestern Medical Center	43	869,297		359,693		103,480		206,864		52,541	65,336		81,383
U. Alabama, Birmingham	44	865,868		498,148		18,482		232,305		71,057	41,550		4,326
Rutgers, State U. New Jersey, New Brunswick	45	836,800		408,320		121,387		174,001		88,835	40,690		3,567
U. Virginia, Charlottesville	46	813,772		394,731		24,266		258,706		34,227	33,507		68,335
U. Utah	47	789,271		453,025		4,358		236,568		57,158	33,428		4,734
Boston U.	48	784,355		421,753		765		242,148		21,131	74,197		24,361
U. Colorado Anschutz Medical Campus	49	741,643		498,397		33,329		69,814		61,906	60,039		18,158
U. Cincinnati	50	739,878		411,205		8,611		200,709		53,909	46,333		19,111
U. Colorado Boulder	51	717,920		567,693		6,972		47,178		15,686	19,363		61,028
North Carolina State U.	52	717,004		316,076		150,086		182,150		62,040	5,622		1,030
U. Iowa	53	703,326		338,639		5,280		251,469		39,196	28,018		40,724
U. Chicago	54	680,753		504,337		1,710		60,415		45,150	66,636		2,505
U. Nebraska, Lincoln and Medical Center	55	657,468		301,070		72,315		194,687		32,109	28,830		28,457
Virginia Polytechnic Institute and State U.	56	656,916		308,282		80,644		203,511		34,282	20,079		10,118
U. California, Irvine	57	644,948		384,504		29,998		125,145		32,229	36,440		36,632
Case Western Reserve U.	58	642,546		466,362		8,467		119,055		6,092	36,892		5,678
U. Georgia	59	628,117		255,117		62,113		273,844		11,536	15,339		10,168
Uniformed Services U. of the Health Sciences	60	569,050		482,223		0		82,302		0	4,525		0
U. Miami	61	559,013		322,331		15,717		154,377		40,602	25,759		227
Princeton U.	62	558,624		250,294		1,923		160,754		18,666	83,114		43,873
U. Kansas	63	546,110		245,710		45,633		180,481		43,745	15,663		14,878
Oregon Health and Science U.	64	545,214		389,585		1,484		56,618		54,397	42,968		162
SUNY, U. Buffalo	65	541,880		284,562		41,118		149,921		27,287	30,731		8,261
U. Illinois, Chicago	66	532,181		299,986		11,638		170,549		10,246	31,787		7,975
U. Kentucky	67	527,658		273,724		31,173		172,167		11,497	12,298		26,799
Virginia Commonwealth U.	68	524,295		208,743		47,241		192,462		22,757	21,202		31,890
U. South Florida	69	521,892		272,483		34,971		175,897		14,416	21,384		2,741
U. Missouri, Columbia	70	508,580		241,938		66,965		155,500		25,527	12,426		6,224
Carnegie Mellon U.	71	505,262		280,169		3,293		125,357		58,720	21,694		16,029
Scripps Research Institute	72	501,468		272,039		2,718		137,186		44,732	44,793		0
U. Rochester	73	492,372		376,088		1,462		57,986		31,672	17,003		8,161

Table 14. Higher education R&D expenditures at institutions in the standard form survey population, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds									
				Federal government		State and local government		Institution funds		Business	Nonprofit organizations		All other sources
U. Oklahoma <sup>c</sup>	74	474,043		225,360		25,541		190,971		19,086	11,645		1,440
SUNY, U. Albany	75	471,605		104,769		24,055		133,688		199,914	2,776		6,403
Colorado State U., Fort Collins	76	466,386		300,857		25,088		82,212		14,380	25,139		18,710
U. Delaware	77	465,780		229,392		12,408		196,593		4,611	8,527		14,249
Iowa State U.	78	462,347		216,003		37,520		168,223		25,087	14,900		614
Florida State U.	79	460,733		204,544		53,897		185,427		3,611	7,364		5,890
Utah State U.	80	451,379		364,880		30,532		30,056		5,821	1,017		19,073
California Institute of Technology	81	445,173		298,754		3,874		60,852		45,352	27,487		8,854
U. Connecticut	82	433,545		253,110		8,235		143,866		11,132	12,032		5,170
Louisiana State U., Baton Rouge	83	431,439		142,226		78,318		181,877		15,478	8,008		5,532
U. Texas Health Science Center, Houston	84	419,123		227,118		54,172		71,928		16,717	39,606		9,582
Dartmouth C. and Dartmouth Hitchcock Medical Center	85	418,429		185,769		706		190,993		8,946	22,422		9,593
Washington State U.	86	403,369		221,721		62,652		89,196		13,656	13,948		2,196
Auburn U., Auburn	87	393,557		157,999		35,124		177,767		10,785	2,223		9,659
Wichita State U.	88	392,333		182,881		18,197		40,527		150,338	284		106
U. Tennessee, Knoxville	89	386,949		180,010		12,857		171,819		8,618	8,377		5,268
George Washington U.	90	381,582		179,220		1,752		144,862		6,780	30,612		18,356
Georgetown U.	91	376,600		145,787		1,055		97,480		19,902	77,634		34,742
U. Hawaii, Manoa	92	375,631		237,482		19,135		94,425		2,404	20,226		1,959
Brown U.	93	374,504		253,661		419		69,791		5,661	32,041		12,931
Oregon State U.	94	371,904		244,264		65,289		34,259		8,736	3,962		15,394
Albert Einstein C. of Medicine	95	360,789		242,594		1,250		90,902		5,426	20,617		0
Medical C. Wisconsin	96	360,309		150,035		125		120,110		46,089	38,386		5,564
U. New Mexico	97	354,874		221,867		16,205		90,275		6,913	17,064		2,550
U. Massachusetts, Medical School	98	349,616		231,375		965		58,157		23,235	28,622		7,262
Northeastern U.	99	346,900		218,650		2,315		86,671		16,584	21,718		962
U. Notre Dame	100	345,791		144,327		509		128,586		15,060	27,031		30,278
Wake Forest U.	101	344,517		224,282		10,477		26,202		37,378	33,160		13,018
Mississippi State U.	102	342,132		161,636		94,335		73,319		2,363	7,593		2,886
Clemson U.	103	338,533		161,658		33,501		115,530		21,905	5,658		281
Florida International U.	104	325,785		165,202		17,608		125,955		3,400	10,603		3,017
Medical U. South Carolina	105	320,990		173,379		6,517		92,990		37,783	10,019		302
SUNY, Stony Brook U.	106	319,258		186,497		18,940		91,073		9,016	10,593		3,139
Temple U.	107	314,999		159,138		7,534		97,116		25,560	17,948		7,703
U. Texas Health Science Center, San Antonio	108	312,791		165,935		34,401		76,536		9,666	26,149		104
Woods Hole Oceanographic Institution	109	308,240		250,140		1,360		15,433		7,070	12,249		21,988
Rockefeller U.	110	305,300		110,292		76		147,255		4,473	41,426		1,778

Table 14. Higher education R&D expenditures at institutions in the standard form survey population, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	Source of funds													
		All R&D expenditures	Federal government		State and local government		Institution funds		Business	Nonprofit organizations		All other sources			
U. California, Santa Barbara	111	303,446		171,188		8,851		68,925		8,616	26,042		19,824		
Wayne State U.	112	291,689		151,878		13,415		92,709		5,468	23,022		5,197		
U. Central Florida	113	284,943		135,779		7,173		124,075		9,751	3,765		4,400		
U. Massachusetts, Amherst	114	281,730		146,876		14,334		95,753		9,135	10,249		5,383		
George Mason U.	115	281,697		147,327		3,573		77,715		6,440	42,333		4,309		
Tufts U.	116	278,304		169,588		4,484		42,242		15,183	34,552		12,255		
Rice U.	117	277,683		127,615		7,155		91,084		8,707	37,195		5,927		
U. South Carolina, Columbia	118	277,329		144,878		13,366		100,137		4,268	10,409		4,271		
Tulane U.	119	275,885		159,185		6,179		72,490		6,395	13,939		17,697		
Thomas Jefferson U.	120	271,198		113,022		11,923		78,178		26,707	12,882		28,486		
Kansas State U.	121	264,961		83,225		64,727		97,529		7,460	10,689		1,331		
West Virginia U.	122	259,072		129,896		10,318		82,900		5,993	3,621		26,344		
Montana State U., Bozeman	123	257,927		158,999		21,347		67,761		962	5,029		3,829		
Texas Tech U.	124	256,919		62,892		32,349		133,084		14,831	13,669		94		
U. Louisiana, Lafayette	125	254,883		94,237		13,114		53,475		93,705	352		0		
Oklahoma State U., Stillwater	126	253,770		76,701		24,828		137,040		11,792	2,780		629		
U. Dayton	127	252,537		241,753		1,295		1,122		7,721	384		262		
U. Alaska, Fairbanks	128	246,295		168,918		16,342		48,136		7,430	3,582		1,887		
U. Vermont	129	246,240		138,601		566		86,795		4,475	7,620		8,183		
Georgia State U.	130	241,115		96,654		4,720		122,041		3,000	13,367		1,333		
U. Texas Medical Branch	131	241,072		161,678		8,912		54,442		5,384	10,656		0		
U. Houston	132	238,996		103,963		26,168		86,413		10,060	7,401		4,991		
U. California, Riverside	133	231,596		126,339		13,887		66,571		3,271	11,713		9,815		
U. Arkansas, Fayetteville	134	230,626		95,784		41,571		67,679		7,050	5,560		12,982		
U. New Hampshire	135	230,224		151,886		1,270		55,530		10,012	10,581		945		
U. Arkansas for Medical Sciences	136	226,842	i	102,854	i	14,946	i	91,231	i	5,690	i	6,583	i	5,538	i
U. Louisville	137	224,969		89,978		13,416		77,479		9,906	8,708		25,482		
U. Alabama, Tuscaloosa	138	221,235		112,199		17,606		85,564		1,830	3,077		959		
U. California, Santa Cruz	139	218,426		117,064		6,610		65,182		2,629	19,623		7,318		
North Dakota State U.	140	199,885		57,705		55,061		76,985		1,626	1,105		7,403		
U. Maine	141	198,870		101,733		19,313		67,471		4,987	3,660		1,706		
Syracuse U.	142	198,750		55,174		10,743		114,226		9,272	8,748		587		
U. North Dakota	143	197,428		83,377		37,661		58,808		15,950	558		1,074		
U. Nevada, Reno	144	194,131		89,152		8,576		81,898		3,097	2,485		8,923		
U. Mississippi	145	189,910		102,574		9,911		68,678		2,501	5,634		612		
U. Texas, Dallas	146	181,795		82,438		29,300		39,786		13,742	16,255		274		
San Diego State U.	147	181,600		74,414		11,379		87,259		903	4,014		3,631		

Table 14. Higher education R&D expenditures at institutions in the standard form survey population, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds												
			Federal government		State and local government		Institution funds		Business	Nonprofit organizations		All other sources			
U. Oregon	148	174,785	105,290		2,327		23,681		663		7,619		35,205		
New Jersey Institute of Technology	149	171,741	90,947		8,025		64,784		906		1,341		5,738		
U. Texas, San Antonio	150	171,528	60,101		25,628		72,157		8,580		1,821		3,241		
Drexel U.	151	170,205	109,643		3,139		41,993		1,792		10,626		3,012		
U. Wyoming	152	167,306	73,731		8,089		79,100		3,713		1,693		980		
Augusta U.	153	166,219	73,564		310		78,326		5,432		7,897		690		
Texas State U.	154	165,047	48,686		25,547		83,632		1,492		5,521		169		
SUNY, Binghamton U.	155	160,644	31,348		5,623		115,176		4,308		2,069		2,120		
Brigham Young U., Provo	156	158,319	31,324		1,355		118,332		3,593		3,424		291		
U. Texas, El Paso	157	157,574	74,836		18,373		49,884		1,100		2,321		11,060		
U. Alabama, Huntsville	158	154,494	115,434		5,254		31,704		941		499		662		
U. Texas, Arlington	159	153,780	62,500		31,989		46,231		5,058		5,866		2,136		
U. Maryland, Baltimore County	160	150,908	91,886		8,440		43,363		3,080		3,179		960		
U. Montana, Missoula	161	143,810	88,952		1,267		49,820		1,018		2,253		500		
New Mexico State U.	162	142,872	84,715		27,644		18,535		1,973		3,694		6,311		
U. Idaho	163	140,413	61,960		49,917		21,808		1,666		1,179		3,883		
Rensselaer Polytechnic Institute	164	140,247	61,359		4,011		47,399		9,391		1,554		16,533		
Rush U.	165	139,295	102,320		4,165		10,616		16,185		6,009		0		
U. Rhode Island	166	137,462	111,503		3,309		16,517		1,530		3,867		736		
Baylor U.	167	134,876	22,685		4,291		88,930		1,298		16,726		946		
Cold Spring Harbor Laboratory	168	126,502	i	58,273	i	225	i	41,315	i	4,215	i	22,474	i	0	i
U. Tennessee, Health Science Center	169	124,771	64,800		7,820		34,014		4,588		5,624		7,925		
U. North Texas, Denton	170	124,219	43,136		5,131		68,263		2,010		5,302		377		
U. Massachusetts, Lowell	171	120,672	59,711		3,043		47,037		5,732		3,971		1,178		
U. Nevada, Las Vegas	172	118,049	46,258		2,904		62,549		1,087		1,268		3,983		
U. North Texas, Health Science Center	173	110,499	90,722		3,351		14,780		830		803		13		
Colorado School of Mines	174	109,905	71,415		2,655		14,794		12,464		3,070		5,507		
U. Memphis	175	108,862	34,728		10,883		59,120		960		3,081		90		
Brandeis U.	176	107,059	48,548		322		41,637		261		13,052		3,239		
Michigan Technological U.	177	106,919	55,980		1,667		40,642		5,791		888		1,951		
Howard U.	178	101,815	55,361		5,844		23,909		6,449		9,347		905		
Boston C.	179	96,310	47,731		2,309		21,690		867		22,054		1,659		
Saint Louis U.	180	95,832	43,867		1,415		29,826		6,245		13,996		483		
U. North Carolina, Charlotte	181	94,895	36,444		608		54,032		3,106		656		49		
William & Mary	182	94,609	41,488		3,683		36,864		2,097		6,884		3,593		
Northern Arizona U.	183	93,749	62,399		11,280		16,520		1,120		2,301		129		
U. Southern Mississippi	184	93,692	53,044		12,958		26,151		543		996		0		

Table 14. Higher education R&D expenditures at institutions in the standard form survey population, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds									
				Federal government		State and local government		Institution funds		Business	Nonprofit organizations		All other sources
U. Texas Rio Grande Valley	185	90,610		35,014		8,901		41,911		918	3,753		113
Indiana U.-Purdue U., Indianapolis	186	88,989		41,004		3,168		34,877		3,597	6,186		157
San Jose State U.	187	88,125		37,503		8,015		36,595		1,480	3,206		1,326
Florida Atlantic U.	188	87,906		35,414		8,801		32,146		2,529	7,427		1,589
Cleveland State U.	189	85,839		53,415		2,545		19,747		2,743	7,245		144
Van Andel Research Institute	190	83,309		31,791		930		40,232		270	3,097		6,989
South Dakota State U.	191	82,246		36,703		18,526		7,060		1,976	4,008		13,973
North Carolina A&T State U.	192	81,845		44,751		5,699		30,653		250	399		93
CUNY, Graduate Center	193	80,831		3,157		222		73,562		171	2,993		726
New Mexico Institute of Mining and Technology	194	79,857		57,649		14,281		4,623		2,483	188		633
Louisiana State U., Health Sciences Center, New Orleans	195	79,680		35,394		518		35,179		4,153	4,228		208
U. California, Office of the President	196	79,293		0		38,249		40,597		0	159		288
Rochester Institute of Technology	197	78,488		44,203		10,391		19,292		1,958	1,836		808
American U.	198	78,356		21,538		1,850		41,312		1,020	10,590		2,046
U. North Carolina, Greensboro	199	77,370		44,726		6,523		23,315		606	1,894		306
U. California, Merced	200	77,233		39,951		10,740		20,759		1,523	2,836		1,424
Touro U., New York	201	76,867		35,150		0		2,427		39,282	8		0
Old Dominion U.	202	76,202		32,045		13,307		26,196		785	2,260		1,609
U. Massachusetts, Boston	203	74,625		28,676		9,415		26,216		2,146	7,721		451
Naval Postgraduate School	204	73,230		62,115		0		9,811		794	141		369
U. Toledo	205	73,200		41,525		1,750		22,812		1,429	5,650		34
East Carolina U.	206	72,539		30,338		4,697		29,538		4,424	3,033		509
CUNY, City C.	207	71,684		38,727		15,407		14,805		517	1,561		667
Worcester Polytechnic Institute	208	71,552		40,768		916		23,036		3,671	2,040		1,121
Stevens Institute of Technology	209	70,736		59,605		2,160		7,241		774	376		580
U. South Alabama	210	70,084		32,361		75		32,984		719	3,775		170
Missouri U. of Science and Technology	211	69,534		38,058		2,857		19,176		4,192	767		4,484
Morehouse School of Medicine	212	68,746		42,379		2,211		15,998		0	8,158		0
Florida A&M U.	213	68,674		57,545		1,699		7,276		830	1,324		0
Ohio U.	214	67,430		25,975		1,207		34,587		3,697	896		1,068
U. Wisconsin-Milwaukee	215	66,270		27,698		19,398		15,026		1,487	1,290		1,371
Rowan U.	216	63,984		21,291		12,264		25,866		2,968	1,595		0
Southern Methodist U.	217	62,553		22,054		1,027		33,596		2,250	3,555		71
Lehigh U.	218	62,406		44,797		3,076		12,529		851	994		159
Western Michigan U. and Homer Stryker M.D. School of Medicine	219	62,063		11,928		3,043		40,757		3,829	763		1,743
Southern Illinois U., Carbondale	220	61,460		18,282		2,941		32,164		7,544	529		0
Loyola U., Chicago	221	61,454		36,481		512		13,298		4,535	5,556		1,072

Table 14. Higher education R&D expenditures at institutions in the standard form survey population, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds										
			Federal government		State and local government		Institution funds		Business	Nonprofit organizations		All other sources	
U. Puerto Rico, Medical Sciences Campus	222	61,453	47,952		618		10,708		2,175	0		0	
Kent State U.	223	61,437	18,251		1,317		38,653		953	2,150		113	
Nova Southeastern U.	224	60,629	14,369		4,188		37,661		1,344	2,310		757	
SUNY, Upstate Medical U.	225	59,482	38,105		2,075		8,950		5,804	2,858		1,690	
Boise State U.	226	57,749	38,325		3,116		14,043		344	1,292		629	
Catholic U. of America	227	57,705	40,655		728		13,696		368	1,976		282	
U. Missouri, Kansas City	228	57,030	27,638		2,522		20,433		473	2,125		3,839	
U. Denver	229	55,630	39,622		1,301		6,339		1,543	5,367		1,458	
Morgan State U.	230	55,506	37,110		9,258		7,850		511	557		220	
Air Force Institute of Technology	231	54,204	44,128		0		10,011		65	0		0	
U. Maryland Center for Environmental Science	232	54,036	16,689		26,498		7,471		210	3,168		0	
U.S. Air Force Academy	233	53,158	51,933		0		0		707	0		518	
Texas Tech U., Health Sciences Center	234	52,986	16,721		19,412		10,074		1,110	3,367		2,302	
Texas A&M U.-Corpus Christi	235	52,175	20,750		11,854		8,224		642	4,408		6,297	
Portland State U.	236	51,677	35,955		5,048		8,085		246	1,960		383	
Kennesaw State U.	237	51,575	7,668		522		41,194		184	2,007		0	
Marquette U.	238	49,099	23,110		194		17,011		357	1,826		6,601	
Chapman U.	239	48,308	11,392		483		31,243		331	4,453		406	
Mercer U.	240	46,504	28,732		417		10,669		2,640	406		3,640	
Georgia Southern U.	241	46,093	4,075		508		35,873		5,449	180		8	
CUNY, Hunter C.	242	45,223	22,412		3,109		17,263		751	1,223		465	
Montclair State U.	243	43,798	7,489		682		34,306		1	1,320		0	
Delaware State U.	244	43,724	28,488		5,383		7,969		242	1,632		10	
U. West Florida	245	43,503	17,226		1,737		23,807		256	477		0	
East Tennessee State U.	246	42,526	11,338		2,191		25,260		138	3,554		45	
U. Massachusetts, Dartmouth	247	42,352	14,803		1,969		22,063		2,193	1,159		165	
San Francisco State U.	248	42,000	16,033		2,908		15,979		11	7,069		0	
Marshall U.	249	39,178	21,348		1,143		13,803		535	2,349		0	
SUNY, C. of Environmental Science and Forestry	250	38,661	8,133		19,729		6,831		505	1,481		1,982	
Oakland U.	251	38,508	13,684		2,814		12,950		4,086	3,102		1,872	
California Polytechnic State U., San Luis Obispo	252	38,133	14,234		6,320		14,662		777	2,077		63	
Illinois Institute of Technology	253	37,990	31,996		185		2,895		1,482	973		459	
SUNY, Downstate Health Sciences U.	254	37,322	28,276		147		5,699		333	2,223		644	
Tennessee Technological U.	255	36,399	14,602		6,800		14,473		109	167		248	
U. Nebraska, Omaha	256	35,134	25,294		3,486		4,858		79	1,342		75	
Tennessee State U.	257	35,017	20,520		1,098		12,964		297	96		42	
Embry-Riddle Aeronautical U.	258	35,014	28,014		4,514		935		1,163	212		176	



Table 14. Higher education R&D expenditures at institutions in the standard form survey population, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds									
				Federal government		State and local government		Institution funds		Business	Nonprofit organizations		All other sources
Northern Illinois U.	259	34,467		14,151		2,228		16,852		721	282		233
Illinois State U.	260	34,238		13,132		3,074		16,619		474	924		15
Teachers C., Columbia U.	261	34,096		13,361		1,845		NA		597	15,778		2,515
California State U., Sacramento	262	33,952		10,567		15,258		6,443		45	1,070		569
California State U., Long Beach	263	33,897		24,285		2,637		4,541		452	1,602		380
California State U., Fullerton	264	33,709		5,372		680		27,012		86	559		0
U. Puerto Rico, Rio Piedras	265	33,659		19,254		113		13,532		117	579		64
Villanova U.	266	33,090		9,754		1,482		19,118		762	1,720		254
U. Tulsa	267	32,802		10,777		393		11,603		6,517	3,032		480
Desert Research Institute	268	32,250		25,072		1,490		3,785		673	460		770
Louisiana State U., Health Sciences Center, Shreveport	269	31,887		18,040		182		7,064		2,052	4,549		0
CUNY, Queens C.	270	31,845		19,019		6,805		5,641		9	287		84
Texas A&M U.-Kingsville	271	31,751		14,728		6,729		3,793		917	5,544		40
Prairie View A&M U.	272	31,632		18,433		9,262		2,156		1,052	729		0
Louisiana Tech U.	273	31,247		10,178		1,404		16,539		656	0		2,470
U. Minnesota, Duluth	274	29,901		8,999		7,237		13,383		174	36		72
Tuskegee U.	275	29,720		19,906		4,876		3,605		0	0		1,333
Creighton U.	276	29,334		12,815		3,931		10,047		999	472		1,070
CUNY, Graduate School of Public Health and Health Policy	277	28,637		16,788		1,873		4,034		4,236	1,578		128
Miami U.	278	28,566		11,085		1,481		12,474		1,284	1,135		1,107
Fordham U.	279	28,249		6,944		0		18,342		216	1,436		1,311
U. South Dakota	280	27,908		13,807		419		12,794		89	355		444
Eastern Virginia Medical School	281	27,891		21,658		676		2,650		2,250	646		11
Texas Christian U.	282	27,659		8,818		364		14,252		3,299	821		105
Central Michigan U.	283	27,429		11,541		46		12,951		666	1,312		913
California State U., Northridge	284	27,009		16,778		1,546		7,057		281	1,347		0
California State Polytechnic U., Humboldt	285	26,607		5,257		5,318		7,454		1,048	4,417		3,113
U. Puerto Rico, Mayaguez	286	26,455		17,027		1,010		6,321		644	843		610
U. Texas Health Science Center, Tyler	287	26,240		8,444		11,247		2,550		433	3,566		0
Rutgers, State U. New Jersey, Newark	288	26,222		17,099		525		5,416		216	2,745		221
Clarkson U.	289	26,150		13,293		5,750		4,419		1,557	501		630
U. Guam	290	25,306		20,986		2,366		1,777		10	167		0
Tarleton State U.	291	24,875		4,718		5,041		14,183		244	689		0
Jackson State U.	292	24,744		20,528		333		2,253		0	1,293		337
U. Alaska, Anchorage	293	24,649		14,204		1,964		6,554		378	741		808
U. Akron	294	24,568		12,910		368		8,480		1,900	788		122
U. Colorado Denver	295	24,313		18,293		3,006		851		396	1,356		411

Table 14. Higher education R&D expenditures at institutions in the standard form survey population, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds									
				Federal government		State and local government		Institution funds		Business	Nonprofit organizations		All other sources
South Dakota School of Mines and Technology	296	23,941		18,006		2,329		2,587		358	17		644
New School	297	23,902		1,052		1,308		4,297		152	16,762		331
Loma Linda U.	298	23,898		13,846		1,119		5,097		1,601	2,116		119
Florida Gulf Coast U.	299	23,841		11,117		4,771		3,819		120	3,994		20
Meharry Medical C.	300	23,691	i	19,809	i	0	i	650	i	69	3,163	i	0
Charles R. Drew U. of Medicine and Science	301	23,664		15,475		1,159		4,951		0	2,079		0
Western Washington U.	302	23,275		8,949		1,285		11,431		355	917		338
Albany Medical C.	303	23,054		12,760		369		2,352		3,270	2,051		2,252
U. North Carolina, Wilmington	304	22,672		9,547		6,832		3,901		1,602	565		225
Wright State U.	305	22,647		15,597		1,385		4,730		638	178		119
Montana Technological U.	306	22,588		13,993		6,159		2,174		262	0		0
CUNY, Advanced Science Research Center	307	22,464		15,129		1,084		4,384		132	1,418		317
U.S. Military Academy	308	22,292		20,577		0		191		190	1,259		75
New York Medical C.	309	21,852		11,490		1,210		1,030		4,154	2,316		1,652
James Madison U.	310	21,394		3,482		1,814		15,118		0	968		12
CUNY, John Jay C. of Criminal Justice	311	21,156		7,340		7,513		3,430		190	2,296		387
Bowling Green State U.	312	19,615		8,204		2,191		8,507		59	654		0
U. North Florida	313	19,318		5,667		2,216		10,222		881	317		15
U. New Orleans	314	19,311		5,950		1,209		9,878		416	1,016		842
Towson U.	315	19,215		5,432		304		13,077		179	176		47
Texas Southern U.	316	19,045		12,131		2,002		4,797		0	115		0
Long Island U.	317	18,759		2,879		2,086		13,275		126	312		81
Duquesne U.	318	18,348		8,989		965		4,894		204	3,296		0
Florida Institute of Technology	319	17,842		10,759		1,333		4,745		575	430		0
Southern Illinois U., Edwardsville	320	17,673		4,012		273		12,278		911	197		2
Idaho State U.	321	17,494		8,964		2,448		5,121		431	207		323
Sam Houston State U.	322	16,716		6,089		303		9,851		20	453		0
Alabama A&M U.	323	16,248		12,701		105		3,046		396	0		0
North Carolina Central U.	324	16,212		12,241		1,954		NA		597	208		1,212
Missouri State U.	325	16,103		13,473		532		1,135		690	255		18
Oklahoma State U., Center for Health Sciences	326	16,054		6,186		1,642		8,032		76	118		0
Xavier U. Louisiana	327	15,955		12,892		782		951		0	1,330		0
Texas Tech U., Health Sciences Center, El Paso	328	15,603		3,701		3,288		7,646		271	697		0
Loyola Marymount U.	329	15,570		3,958		1,347		7,698		9	2,558		0
CUNY, Brooklyn C.	330	15,244		5,714		2,011		6,910		183	408		18
Alcorn State U.	331	14,844		10,148		4,366		281		31	18		0
U. of the Virgin Islands	332	14,762		13,422		1,000		340		0	0		0



Table 14. Higher education R&D expenditures at institutions in the standard form survey population, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds								
			Federal government	State and local government		Institution funds		Business	Nonprofit organizations		All other sources
U. Missouri, Saint Louis	333	14,698	5,273	33		6,434	265	2,011	682		
U. Hawaii, system office	334	14,542	14,534	0		8	0	0	0		
Salisbury U.	335	14,422	5,292	5,198		3,827	5	100	0		
California State U., Fresno	336	14,410	6,203	1,934		4,157	448	1,583	85		
California State U., East Bay	337	14,307	9,172	263		4,317	31	275	249		
California State Polytechnic U., Pomona	338	13,685	10,621	1,246		1,173	100	238	307		
Midwestern U.	339	13,632	3,227	78		10,030	58	239	0		
Kentucky State U.	340	13,534	7,244	4,792		1,385	0	113	0		
Clark Atlanta U.	341	13,424	10,028	0		3,242	33	121	0		
U. Maryland, Eastern Shore	342	13,422	11,752	567		1,061	0	42	0		
Langston U.	343	13,340	7,583	0		5,661	96	0	0		
Virginia State U.	344	13,271	6,684	4,144		2,175	0	208	60		
Ball State U.	345	13,095	6,935	463		4,780	532	368	17		
Northeast Ohio Medical U.	346	13,049	9,018	68		3,242	0	721	0		
California State U., San Marcos	347	12,788	10,758	1,268		430	0	332	0		
Clark U.	348	12,707	3,231	209		6,079	199	1,362	1,627		
Winston-Salem State U.	349	12,650	11,818	574		0	0	258	0		
U. San Diego	350	12,649	4,220	845		6,627	85	578	294		
South Carolina State U.	351	12,496	8,936	2,518		692	350	0	0		
U. Michigan, Dearborn	352	12,460	5,742	11		4,579	1,832	281	15		
U. Tennessee, Chattanooga	353	12,104	4,563	310		6,358	72	384	417		
Rosalind Franklin U. of Medicine and Science	354	11,769	7,989	63		3,245	7	465	0		
Fort Valley State U.	355	11,727	6,246	5,481		0	0	0	0		
California State U., Monterey Bay	356	11,717	5,717	2,920		2,758	11	311	0		
West Texas A&M U.	357	11,616	1,990	6,648		2,163	776	39	0		
Central State U.	358	11,459	4,749	4,702		2,008	0	0	0		
California State U., San Bernardino	359	11,339	6,998	1,652		1,924	0	765	0		
Appalachian State U.	360	11,293	4,178	830		5,017	713	555	0		
Western Kentucky U.	361	11,213	4,511	1,046		5,449	69	123	15		
Eastern Michigan U.	362	11,202	3,500	1,525		5,736	84	357	0		
Western U. of Health Sciences	363	11,190	7,285	2,462		176	407	860	0		
U. San Francisco	364	10,962	1,709	429		8,629	0	195	0		
Arkansas State U., Jonesboro	365	10,950	3,744	3,148		3,936	122	0	0		
California State U., Los Angeles	366	10,889	9,598	139		1,037	0	115	0		
Pepperdine U.	367	10,870	827	41		7,855	0	2,143	4		
Wesleyan U.	368	10,819	5,676	23		3,833	51	638	598		
Hampton U.	369	10,660	9,710	217		620	0	0	113		

Table 14. Higher education R&D expenditures at institutions in the standard form survey population, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds									
				Federal government		State and local government		Institution funds		Business	Nonprofit organizations		All other sources
U.S. Naval Academy	370	10,592		10,172		0		241		0	179		0
DePaul U.	371	10,522		5,341		580		2,428		478	1,504		191
U. Arkansas, Little Rock	372	10,461		9,624		373		63		4	362		35
Saint Joseph's U.	373	10,451		2,365		797		3,644		3,115	210		320
Hofstra U.	374	10,425		2,990		212		7,070		0	153		0
Yeshiva U.	375	10,290		2,348		0		6,685		0	149		1,108
MGH Institute of Health Professions	376	10,029		8,800		0		20		0	1,209		0
Rutgers, State U. New Jersey, Camden	377	9,849		2,772		1,907		3,712		892	561		5
Purdue U., Northwest	378	9,549		4,036		983		2,442		597	590		901
Gallaudet U.	379	9,524		5,300		21		3,202		0	24		977
Kean U.	380	9,479		3,130		1,364		4,436		72	477		0
Seton Hall U.	381	9,477		3,392		2,805		2,676		0	514		90
U. of the District of Columbia	382	9,386		6,253		0		3,133		0	0		0
Lincoln U., Jefferson City	383	9,261	i	5,189	i	4,033	i	39	i	0	0	i	0
Texas Woman's U.	384	8,998		3,026		2,384		2,507		180	901		0
Southern U. and A&M C., Agricultural Research and Extension Center	385	8,969		5,876		3,025		38		0	30		0
California State U., Chico	386	8,918		2,964		2,874		1,146		233	475		1,226
Middle Tennessee State U.	387	8,736		3,542		441		4,229		43	478		3
Amherst C.	388	8,666		3,091		0		3,379		0	254		1,942
C. Charleston	389	8,662		5,698		701		1,536		119	518		90
U. Hawaii, Hilo	390	8,501		6,015		121		894		69	1,381		21
U. Northern Colorado	391	8,476		1,325		125		6,847		28	151		0
California State U., Bakersfield	392	8,457		4,979		106		3,223		0	149		0
Lawrence Technological U.	393	8,435		4,253		1,396		1,091		352	1,343		0
Pacific U.	394	8,383		3,329		1,295		2,932		308	519		0
Texas A&M International U.	395	8,378		3,903		1,178		2,382		177	738		0
U. Wisconsin-Superior	396	8,355		7,452		149		462		0	35		257
Lamar U.	397	8,324		2,572		4,837		540		227	148		0
Edward Via C. of Osteopathic Medicine	398	8,132		686		256		6,940		0	250		0
U. New England	399	8,093		5,893		11		1,667		47	470		5
Santa Clara U.	400	8,011		3,494		125		3,062		338	944		48
U. Arkansas, Pine Bluff	401	7,975		4,728		1,304		1,893		7	43		0
U. Washington, Tacoma	402	7,973		5,319		601		814		19	1,053		167
Abilene Christian U.	403	7,868		328		10		813		6,577	139		1
Benedict C.	404	7,788		4,201		660		0		0	1,901		1,026
Claremont McKenna C.	405	7,777		1,208		42		5,968		0	494		65
Southern Connecticut State U.	406	7,620		1,159		237		5,646		58	431		89

Table 14. Higher education R&D expenditures at institutions in the standard form survey population, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds									
				Federal government		State and local government		Institution funds		Business	Nonprofit organizations		All other sources
Philadelphia C. of Osteopathic Medicine	407	7,611		225		0		3,515		2,295	1,576		0
U. Colorado Colorado Springs	408	7,528		6,025		26		989		308	65		115
Marian U., Indianapolis	409	7,524		1,598		245		5,453		0	223		5
Smith C.	410	7,375		3,459		0		2,230		171	484		1,031
Norfolk State U.	411	7,309		4,918		313		1,139		134	672		133
Texas A&M U.-San Antonio	412	7,149		3,916		176		2,779		69	201		8
Grinnell C.	413	7,131		634		0		5,365		21	563		548
Williams C.	414	7,074	i	1,537	i	0	i	2,400	i	0	197	i	2,940
Pennsylvania State U., Behrend	415	7,054		3,920		439		1,818		632	245		0
Grand Valley State U.	416	7,041	i	2,035	i	509	i	3,289	i	0	661	i	547
Wellesley C.	417	6,989		2,890		1,013		NA		289	2,797		0
Northwest Indian C.	418	6,988	i	5,172	i	0	i	1,816	i	0	0	i	0
Dine C.	419	6,960		4,692		878		730		0	660		0
West Chester U. Pennsylvania	420	6,870		1,822		100		4,580		58	310		0
U.S. Army War C.	421	6,819	i	6,793	i	5	i	6	i	5	5	i	5
Texas A&M U.-Commerce	422	6,811		2,412		922		2,865		0	563		49
Indiana U. Pennsylvania	423	6,568		1,536		283		4,151		159	428		11
New York Institute of Technology	424	6,559		3,710		68		2,452		1	328		0
Sul Ross State U.	425	6,546		3,900		244		1,811		100	210		281
U. Southern Maine	426	6,545		2,862		3,460		198		0	25		0
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	427	6,480		392		0		6,068		0	20		0
Barnard C.	428	6,361		4,334		0		1,113		41	873		0
Oregon Institute of Technology	429	6,311	i	1,548	i	4,447	i	NA		110	206	i	0
Bryn Mawr C.	430	6,302		1,152		0		4,892		0	258		0
CUNY, Lehman C.	431	6,259		4,313		0		1,468		427	41		10
Roseman U. of Health Sciences	432	6,198		63		11		6,080		33	11		0
Bucknell U.	433	6,193		2,692		137		1,841		442	276		805
Swarthmore C.	434	6,067		1,866		2		3,674		0	525		0
West Virginia State U.	435	6,059		3,779		1,951		305		0	24		0
U. of St. Thomas (MN)	436	5,994		1,391		3,251		592		251	451		58
CUNY, Baruch C.	437	5,977		2,168		191		2,752		44	626		196
Providence C.	438	5,924		5,021		0		705		0	198		0
Alfred U.	439	5,915		3,590		1,560		301		464	0		0
Morehouse C.	440	5,903		5,903		0		NA		0	0		0
Naval War C.	441	5,868		5,868		0		0		0	0		0
Fairfield U.	442	5,839		241		0		4,667		0	126		805
Trinity U.	443	5,838		2,304		11		1,712		23	1,768		20

Table 14. Higher education R&D expenditures at institutions in the standard form survey population, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds									
				Federal government		State and local government		Institution funds		Business	Nonprofit organizations		All other sources
U. Baltimore	444	5,797		3,471		1,832		NA		38	398		58
California State U., Dominguez Hills	445	5,762		2,674		603		2,170		121	191		3
Occidental C.	446	5,753		1,285		704		912		379	501		1,972
CUNY, C. Staten Island	447	5,737		4,625		495		416		75	94		32
Pennsylvania State U., Harrisburg	448	5,735		3,305		398		1,389		0	643		0
Sacred Heart U.	449	5,698		1,337		0		4,292		23	46		0
U. North Carolina, Asheville	450	5,677		3,295		535		515		12	1,319		1
Dakota State U.	451	5,652		2,111		260		855		1,388	0		1,038
U. New Haven	452	5,640		2,836		1,543		456		23	692		90
High Tech High Graduate School of Ed.	453	5,585		0		0		0		0	5,585		0
Hope C.	454	5,584		3,317		0		1,632		0	458		177
Southeastern Louisiana U.	455	5,577		1,688		339		881		2,653	16		0
Pomona C.	456	5,522		1,083		0		4,017		0	422		0
Southern U. and A&M C., Baton Rouge	457	5,483		5,298		73		34		78	0		0
U. Washington, Bothell	458	5,320		4,149		126		595		60	385		5
Reed C.	459	5,154		2,377		59		2,152		0	472		94
Rhode Island School of Design	460	5,130		342		55		323		3,725	613		72
Coastal Carolina U.	461	5,094		2,341		1,131		1,404		0	218		0
Trinity C., Hartford	462	5,074		545		0		4,433		0	96		0
Austin Peay State U.	463	5,070		2,386		1,470		304		0	72		838
National U.	464	5,022		2,725		0		1,023		175	1,099		0
Carleton C.	465	4,993		3,167		17		780		0	711		318
Toyota Technological Institute, Chicago	466	4,982		2,186		0		1,840		354	487		115
Citadel Military C. South Carolina	467	4,969		4,699		63		207		0	0		0
St. John's U., New York	468	4,947		3,685		20		466		458	232		86
Sonoma State U.	469	4,928		3,755		770		322		19	62		0
Suffolk U.	470	4,890		702		715		3,246		0	227		0
Franklin and Marshall C.	471	4,815		1,924		260		876		364	749		642
Claremont Graduate U.	472	4,808		1,061		443		913		633	1,269		489
Colgate U.	473	4,730		1,509		0		3,102		33	86		0
Seattle U.	474	4,699		1,389		166		2,229		55	860		0
U. Wisconsin-Stevens Point	475	4,691		2,048		1,010		1,052		0	292		289
Bentley U.	476	4,639		1,037		0		2,398		6	713		485
Fort Lewis C.	477	4,582		3,866		30		149		0	537		0
U. Detroit Mercy	478	4,550		3,797		3		657		93	0		0
Spelman C.	479	4,537		4,201		0		0		0	336		0
Davidson C.	480	4,525		1,738		16		2,360		0	411		0

Table 14. Higher education R&D expenditures at institutions in the standard form survey population, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds									
				Federal government		State and local government		Institution funds		Business	Nonprofit organizations		All other sources
Colby C.	481	4,513		3,236		30		523		0	182		542
Stephen F. Austin State U.	482	4,502		951		1,630		1,325		111	333		152
U. Central Oklahoma	483	4,495		1,950		80		2,277		125	19		44
St. Cloud State U.	484	4,416		810		315		2,610		294	65		322
U. Northern Iowa	485	4,409		3,220		416		620		0	153		0
Monmouth U.	486	4,340		1,143		1,486		242		983	455		31
St. John Fisher U.	487	4,190		130		0		4,033		0	27		0
Albany State U.	488	4,163		3,973		66		0		58	21		45
Western Illinois U.	489	4,142	i	3,574	i	151	i	44	i	255	i	0	118
Haverford C.	490	4,103		1,955		0		892		0	686		570
New Mexico Highlands U.	491	4,074		3,348		497		166		0	63		0
National Louis U.	492	3,993		2,231		2		1,570		0	190		0
Keck Graduate Institute	493	3,972		2,644		32		373		348	248		327
Fayetteville State U.	494	3,942		3,256		262		0		0	0		424
East Stroudsburg U. Pennsylvania	495	3,916		1,071		2,064		735		0	46		0
Alabama State U.	496	3,901		3,408		0		0		0	493		0
Harvey Mudd C.	497	3,900		2,012		0		1,540		0	205		143
Whitman C.	498	3,891		323		0		3,445		0	123		0
Des Moines U.	499	3,889		402		0		3,362		18	107		0
Lake Superior State U.	500	3,876		1,826		137		774		140	53		946
California State U., Channel Islands	501	3,860		1,672		1,081		991		44	72		0
U. Nebraska, Kearney	502	3,796		1,645		773		1,306		56	0		16
Purdue U., Fort Wayne	503	3,791		265		903		1,216		151	349		907
Hawaii Pacific U.	504	3,784		2,083		233		162		1,053	253		0
U. Central del Caribe	505	3,780		2,068		356		1,211		0	0		145
SUNY, C. of Optometry	506	3,776		2,613		0		0		1,160	3		0
Vassar C.	507	3,775		2,205		25		1,124		0	395		26
Christopher Newport U.	508	3,764		2,224		5		1,329		45	124		37
Bowie State U.	509	3,731		3,714		0		0		0	17		0
U. Wisconsin-Eau Claire	510	3,730		1,740		566		980		426	13		5
Roger Williams U.	511	3,679		2,244		9		1,019		4	403		0
Hamilton C.	512	3,664		633		5		1,522		0	1,504		0
U. Texas, Tyler	513	3,632		1,976		294		539		462	361		0
Murray State U.	514	3,630		2,428		108		996		58	40		0
New England C. of Optometry	515	3,602		1,935		1,637		30		0	0		0
U. of the Incarnate Word	516	3,580		1,285		0		2,197		37	61		0
Middlebury C.	517	3,576		3,135		0		13		0	428		0

Table 14. Higher education R&D expenditures at institutions in the standard form survey population, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds											
				Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources	
Saginaw Valley State U.	518	3,552	i	2,818	i	0	i	546	i	7	i	158	i	23	i
Winthrop U.	519	3,466		2,894		0		538		1		33		0	
Tougaloo C.	520	3,462		3,462		NA		NA		NA		NA		NA	
National Defense U.	521	3,459		3,459		0		0		0		0		0	
U. Wisconsin-Oshkosh	522	3,443		1,904		328		929		158		124		0	
Fisk U.	523	3,425		2,681		240		0		0		504		0	
Bowdoin C.	524	3,406		1,928		41		1,296		0		79		62	
Azusa Pacific U.	525	3,401		245		33		3,004		0		119		0	
Pace U.	526	3,348		2,067		17		1,098		0		166		0	
Troy U.	527	3,318		2,441		36		587		10		191		53	
Dillard U.	528	3,317		1,792		110		1,327		0		88		0	
Northern Kentucky U.	529	3,271		2,289		15		835		7		125		0	
SUNY, Oswego	530	3,242		2,176		28		1,015		2		3		18	
Minnesota State U., Mankato	531	3,235		977		248		1,596		0		44		370	
Furman U.	532	3,231		1,685		349		552		47		577		21	
U. Central Arkansas	533	3,142		1,823		666		517		80		12		44	
Milwaukee School of Engineering	534	3,090		573		5		67		2,425		20		0	
U. Houston-Clear Lake	535	3,080		1,635		525		188		563		169		0	
U. Wisconsin-La Crosse	536	3,068		1,051		721		571		631		94		0	
U. Houston-Downtown	537	3,049		1,975		537		382		63		92		0	
CUNY, New York City C. of Technology	538	3,033		2,260		0		347		0		419		7	
Elon U.	539	2,997		480		0		2,437		10		20		50	
U. of Health Sciences and Pharmacy in St. Louis	540	2,976		1,867		241		777		35		56		0	
U. Richmond	541	2,961		1,552		6		1,128		0		275		0	
Eastern Washington U.	542	2,957		1,722		999		NA		63		137		36	
U. Louisiana, Monroe	543	2,940		2,083		605		115		11		126		0	
Lewis and Clark C.	544	2,924		1,051		56		1,675		0		142		0	
C. New Jersey	545	2,857		1,779		183		470		0		425		0	
Merrimack C.	546	2,852		1,339		0		1,003		0		224		286	
U. Wisconsin-River Falls	547	2,847		575		2,160		54		37		21		0	
Northeastern Illinois U.	548	2,844		2,844		0		0		0		0		0	
U. South Carolina Upstate	549	2,764		566		0		2,162		3		33		0	
Skidmore C.	550	2,759		1,605		0		675		0		479		0	
Central Washington U.	551	2,757		1,693		616		253		20		151		24	
Marymount U.	552	2,749		1,242		42		1,322		10		133		0	
CUNY, system office	553	2,723		2,051		266		406		0		0		0	
Chicago State U.	554	2,701		2,701		0		0		0		0		0	

Table 14. Higher education R&D expenditures at institutions in the standard form survey population, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds									
				Federal government		State and local government		Institution funds		Business	Nonprofit organizations		All other sources
Youngstown State U.	555	2,691		2,491		37		109		22	32		0
La Sierra U.	556	2,688	i	1,148	i	0	i	790	i	0	750	i	0
Lafayette C.	557	2,684		1,557		0		942		0	148		37
U. Texas of the Permian Basin	558	2,682		1,294		544		633		114	0		97
Black Hills State U.	559	2,646		2,304		148		193		0	0		1
U. Wisconsin-Green Bay	560	2,637		1,131		644		625		121	116		0
Pittsburg State U.	561	2,577		1,199		1,034		NA		344	0		0
U. Illinois, Springfield	562	2,552		712		586		1,009		0	245		0
Virginia Military Institute	563	2,506		1,855		254		395		0	2		0
Calvin U.	564	2,490		803		40		358		4	1,008		277
SUNY, Buffalo State U.	565	2,453		1,419		740		268		9	17		0
California State U., Stanislaus	566	2,440		1,705		514		154		65	2		0
Seattle Pacific U.	567	2,414		564		225		61		0	1,499		65
U. Alaska, Southeast	568	2,398		1,492		41		561		6	158		140
Florida Polytechnic U.	569	2,391		939		380		908		109	55		0
John Carroll U.	570	2,378		1,052		301		540		0	485		0
Savannah State U.	571	2,376		2,376		0		0		0	0		0
Mount Holyoke C.	572	2,372		1,394		4		379		0	589		6
U. of the Pacific	573	2,362		1,510		622		NA		103	127		0
Touro U., California	574	2,356		923		0		1,396		34	3		0
Western Carolina U.	575	2,333		1,651		212		359		83	28		0
Morehead State U.	576	2,295		1,029		404		13		790	10		49
Union C., Schenectady	577	2,263		1,288		0		796		13	20		146
Utah Valley U.	578	2,254		1,306		492		368		0	88		0
Stockton U.	579	2,253		701		273		775		367	137		0
Manhattan C.	580	2,184		1,131		199		541		313	0		0
Colorado C.	581	2,178		389		0		1,164		0	625		0
U. Puerto Rico, Cayey	582	2,173		1,259		0		574		0	340		0
Alaska Pacific U.	583	2,168		1,183		50		0		891	0		44
Bates C.	584	2,066		909		22		500		0	634		1
Ferris State U.	585	2,046		1,103		629		226		57	31		0
U. Michigan, Flint	586	2,023		627		38		1,255		19	65		19
Lipscomb U.	587	2,011		245		0		1,706		27	33		0
Nevada State U.	588	1,989		1,989		0		0		0	0		0
Hobart and William Smith Colleges	589	1,984		767		94		446		0	88		589
Macalester C.	590	1,948		859		0		629		0	460		0
U. Hartford	591	1,944		1,601		0		181		140	22		0

Table 14. Higher education R&D expenditures at institutions in the standard form survey population, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds									
				Federal government		State and local government		Institution funds		Business	Nonprofit organizations		All other sources
SUNY, C. Brockport	592	1,932		889		203		473		2	166		199
U. Puerto Rico, Humacao	592	1,932		1,759		0		173		0	0		0
Northern Michigan U.	594	1,931		752		4		946		11	152		66
Oberlin C.	595	1,926		1,142		15		741		0	28		0
Southern Utah U.	596	1,897		1,331		261		305		0	0		0
Erikson Institute	597	1,889		904		0		105		0	880		0
Heidelberg U.	598	1,876		241		1,428		173		0	34		0
Norwich U.	599	1,875		1,611		2		262		0	0		0
Colorado State U., Pueblo	600	1,835	i	1,072	i	226	i	394	i	0	0	i	143
SUNY, Geneseo	601	1,820		1,062		8		600		0	131		19
Franklin W. Olin C. of Engineering	602	1,819		595		0		584		67	536		37
Claflin U.	603	1,816		1,816		0		0		0	0		0
U. North Georgia	604	1,805		589		19		1,040		5	152		0
United Tribes Technical C.	605	1,800		1,757		1		0		0	42		0
Babson C.	606	1,783		351		0		610		2	92		728
Biola U.	607	1,761		0		0		NA		0	1,615		146
Lincoln Memorial U.	608	1,756		6		4		1,613		6	127		0
Andrews U.	609	1,751		638		0		858		0	255		0
Dickinson C.	610	1,743		707		130		399		0	507		0
Pratt Institute	611	1,709	i	53	i	964	i	0	i	0	692	i	0
Arcadia U.	612	1,692		955		387		0		0	350		0
U. Ana G. Mendez, Gurabo	613	1,660		1,660		0		0		0	0		0
Saint John's U.	614	1,623	i	0	i	0	i	1,623	i	0	0	i	0
U. South Carolina, Aiken	615	1,609		1,183		3		415		0	8		0
Hartford International U. for Religion and Peace	616	1,599	i	0	i	0	i	0	i	0	1,599	i	0
Liberty U.	617	1,597		548		53		872		124	0		0
Pennsylvania State U., Altoona	618	1,572		448		0		724		166	234		0
St. Edward's U.	619	1,570		141		117		1,086		0	226		0
Eckerd C.	620	1,558		369		170		472		197	350		0
C. of Saint Benedict	621	1,536	i	61	i	0	i	1,475	i	0	0	i	0
U. Hawaii, Maui C.	622	1,518		1,443		0		47		0	28		0
CUNY, York C.	623	1,515		1,318		0		156		0	41		0
St. Olaf C.	624	1,500		796		12		593		0	99		0
West Virginia School of Osteopathic Medicine	625	1,491		342		0		1,149		0	0		0
Drake U.	626	1,485		936		161		283		25	78		2
Willamette U.	627	1,470		416		0		797		0	257		0
Kenyon C.	628	1,466		1,069		0		219		0	178		0



Table 14. Higher education R&D expenditures at institutions in the standard form survey population, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds											
				Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources	
National U. of Natural Medicine	628	1,466	i	910	i	0	i	358	i	198	i	0	i	0	i
SUNY, C. Plattsburgh	630	1,465		893		0		494		0		77		1	
U. Virginia's C. Wise	631	1,464		1,207		87		149		0		16		5	
New C. Florida	632	1,459		296		0		458		495		114		96	
Wheaton C., Wheaton	633	1,445		182		0		519		7		737		0	
Eastern Kentucky U.	634	1,435		871		275		220		0		69		0	
U. Scranton	634	1,435		1,109		0		219		20		87		0	
Eastern Connecticut State U.	636	1,420		197		0		1,223		0		0		0	
Roosevelt U.	637	1,418		614		87		497		0		220		0	
Robert Morris U.	638	1,412		706		61		592		22		31		0	
U. North Carolina, general administration	639	1,403		0		0		1,403		0		0		0	
Loyola U., Maryland	640	1,362		820		57		156		0		329		0	
U. of Mary Washington	641	1,333		610		3		667		0		53		0	
Butler U.	642	1,313		1,004		0		215		35		59		0	
C. Wooster	643	1,296		390		0		685		0		221		0	
Radford U.	644	1,291		84		143		986		37		41		0	
Midwestern State U.	645	1,261		565		96		414		66		119		1	
U. Puget Sound	646	1,248		1,102		0		104		0		42		0	
SUNY, Polytechnic Institute	647	1,234		707		130		207		29		156		5	
Weber State U.	648	1,217		827		63		60		75		50		142	
California Lutheran U.	649	1,201		181		0		897		0		123		0	
Western New England U.	649	1,201	i	579	i	58	i	326	i	96	i	142	i	0	i
U. South Carolina, Beaufort	651	1,177		615		27		469		0		66		0	
Illinois C. of Optometry	652	1,158		5		0		305		846		2		0	
Juniata C.	653	1,155		939		0		192		0		24		0	
Gettysburg C.	654	1,154		562		0		120		0		157		315	
SUNY, Cobleskill	655	1,149		805		344		0		0		0		0	
Indiana State U.	656	1,138		838		17		189		65		16		13	
Nicholls State U.	657	1,120		558		396		19		25		122		0	
Albany C. of Pharmacy and Health Sciences	658	1,113		578		0		322		167		46		0	
Denison U.	659	1,110	i	622	i	0	i	371	i	0	i	117	i	0	i
Connecticut C.	660	1,096		466		10		497		0		122		1	
Elizabeth City State U.	661	1,078		642		430		0		6		0		0	
Indiana U., South Bend	662	1,071		250		12		707		0		88		14	
Aaniiih Nakoda C.	663	1,045		1,045		0		0		0		0		0	
Southern Oregon U.	664	1,023		749		129		22		95		28		0	
Ursinus C.	665	1,015		940		0		0		0		75		0	

Table 14. Higher education R&D expenditures at institutions in the standard form survey population, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds											
				Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources	
St. Bonaventure U.	666	1,003		646		0		6		0		190		161	
High Point U.	667	1,000	i	565	i	14	i	251	i	64	i	79	i	27	i
Johnson C. Smith U.	668	936		915		0		0		0		21		0	
Plymouth State U.	669	934		805		21		96		0		12		0	
U. Minnesota, Rochester	670	921		0		0		896		0		0		25	
Valparaiso U.	671	918		799		4		68		33		14		0	
U. North Texas, Dallas	672	911		26		0		799		0		86		0	
Keene State C.	673	844		745		0		79		0		20		0	
St. Catherine U.	674	824		517		0		26		0		186		95	
Northwestern State U. Louisiana	675	798		618		13		167		0		0		0	
Polytechnic U. Puerto Rico	676	796		796		NA		NA		NA		NA		NA	
Auburn U., Montgomery	677	779		446		0		329		0		4		0	
Palmer C. of Chiropractic, Davenport	678	750		500		0		250		0		0		0	
Berry C.	679	670		534		0		43		0		93		0	
Bryant U.	680	459		358		0		101		0		0		0	
Carthage C.	681	188		76		0		0		0		95		17	

i = imputed. NA = not available; data were not provided by institution.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$2,549,821 thousand in total R&D expenditures in FY 2024.

<sup>b</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>c</sup> The University of Oklahoma includes expenditures from the University of Oklahoma, Tulsa and University of Oklahoma, Norman and Health Science Center campuses. Due to a reorganization, the campuses began reporting as one unit in FY 2024.

**Note(s):**  
Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 5](#). For complete rankings of all institutions in both survey populations, see [table 4](#).

**Source(s):**  
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2024.

Table 15. Higher education R&D expenditures at institutions in the standard form survey population, ranked by all R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences		Geosciences, atmospheric sciences, and ocean sciences	Life sciences		Mathematics and statistics		Physical sciences		Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields						
All institutions	-	117,554,145	3,955,529		4,407,449	66,821,053		1,164,507		7,456,024		1,730,944	3,909,953	1,268,044	19,271,406	7,569,236						
Johns Hopkins U. <sup>a</sup>	1	4,129,264	302,764	i	64,172	i	1,347,690	i	263,313	i	355,793	i	8,125	i	9,137	i	50,210	i	1,712,148	i	15,912	i
U. Pennsylvania	2	2,167,504	27,960		2,251		1,659,885		9,599		84,635		16,207		69,570		6,516		124,526		166,355	
U. California, San Francisco	3	2,127,637	0		0		2,055,894		0		71,743		0		0		0		0		0	
U. Michigan, Ann Arbor	4	2,110,961	20,917		21,117		1,217,303		22,114		74,407		27,037		238,537		6,717		371,562		111,250	
U. Wisconsin-Madison	5	1,933,229	38,851		81,799		1,190,134		12,277		116,393		12,687		89,008		72,048		194,988		125,044	
U. California, Los Angeles	6	1,896,227	20,823		54,678		1,327,061		11,445		78,264		18,776		118,538		57,397		128,854		80,391	
U. California, San Diego	7	1,881,289	9,566		271,456		1,145,657		6,177		103,853		13,926		32,513		705		250,772		46,664	
U. Washington, Seattle	8	1,691,302	35,541		163,878		1,114,297		12,015		76,002		13,489		24,820		0		188,972		62,288	
Stanford U.	9	1,641,961	28,450		39,442		1,202,386		7,695		103,675		14,320		23,597		693		164,503		57,200	
Cornell U.	10	1,613,631	42,783		7,400		1,113,453		4,370		153,702		12,943		32,283		244		176,068		70,385	
U. North Carolina, Chapel Hill	11	1,598,751	50,246		31,190		1,185,397		5,104		55,417		54,135		92,711		370		61,707		62,474	
Ohio State U.	12	1,581,570	33,585		13,361		1,073,570		4,825		49,134		6,428		23,537		44,364		261,381		71,385	
Duke U.	13	1,580,756	14,349		13,314		1,320,164		9,766		31,447		10,371		46,752		439		119,628		14,526	
U. Maryland <sup>b</sup>	14	1,539,520	94,066		102,546		789,629		7,359		144,668		15,275		66,988		32,899		218,811		67,279	
Georgia Institute of Technology	15	1,528,637	235,289		13,283		43,749		9,655		46,625		5,013		8,560		0		1,134,820		31,643	
Yale U.	16	1,519,694	12,775		9,757		1,321,608		4,511		68,364		12,164		23,239		446		45,279		21,551	
U. Pittsburgh, Pittsburgh	17	1,504,665	11,311		16,587		1,306,337		5,030		35,199		12,606		4,762		16,363		83,908		12,562	
New York U.	18	1,500,732	20,307		1,538		1,096,606		18,995		32,783		31,053		43,520		175		142,831		112,924	
Harvard U.	19	1,494,527	25,831		29,828		817,904		24,070		136,052		6,923		182,911		8,497		106,255		156,256	
Columbia U. in the City of New York	20	1,449,535	36,053		86,355		1,057,492		4,053		59,689		2,992		15,237		0		122,102		65,562	
U. Minnesota, Twin Cities	21	1,409,710	29,109		16,405		1,008,633		8,601		51,221		34,732		36,861		3,143		160,821		60,184	
Texas A&M U., College Station and Health Science Center	22	1,393,825	35,515		122,863		526,073		10,799		72,524		10,353		38,335		12,525		496,787		68,051	
U. Texas M. D. Anderson Cancer Center	23	1,363,321	0		0		1,263,315		24,297		28,873		19,672		27,164		0		0		0	
Vanderbilt U. and Vanderbilt U. Medical Center	24	1,327,870	28,126		2,377		1,021,073		1,849		33,650		24,242		28,228		0		83,016		105,309	
Pennsylvania State U., University Park and Hershey Medical Center	25	1,302,971	125,328		35,939		393,100		29,530		124,762		35,984		37,981		0		471,961		48,386	
U. Florida	26	1,272,493	18,468		22,708		912,852		3,547		68,959		14,826		16,924		3,039		153,888		57,282	
U. Southern California	27	1,264,197	125,806		20,003		843,447		1,932		21,423		8,860		84,327		0		90,850		67,549	
Northwestern U.	28	1,257,859	14,917		2,433		902,321		3,104		110,150		4,493		24,276		31,633		120,781		43,751	
Emory U.	29	1,246,507	4,103		0		1,121,825		2,283		32,079		5,355		4,990		4,359		37,498		34,015	
Washington U., Saint Louis	30	1,243,115	5,731		7,461		1,103,045		1,434		32,367		10,421		4,926		0		43,826		33,904	
U. Texas, Austin	31	1,143,917	155,613		101,475		179,715		16,287		114,231		18,518		38,041		4,995		418,949		96,093	
U. California, Berkeley	32	1,126,782	15,865		10,869		309,357		10,358		242,156		21,145		100,851		108,057		216,013		92,111	
Massachusetts Institute of Technology	33	1,065,554	121,430		39,286		132,170		11,667		198,965		999		58,688		23,659		413,889		64,801	
Icahn School of Medicine at Mount Sinai	34	1,015,600	0		0		1,015,600		0		0		0		0		0		0		0	

Table 15. Higher education R&D expenditures at institutions in the standard form survey population, ranked by all R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Arizona	35	1,012,404	15,770	42,795	541,325	8,518	175,219	11,604	40,113	14,944	121,989	40,127
U. California, Davis	36	1,005,757	9,848	35,096	767,723	4,435	35,826	4,890	11,639	14,219	104,694	17,387
Arizona State U.	37	1,003,271	47,710	85,051	192,959	2,819	50,374	18,175	104,488	28,826	277,309	195,560
Michigan State U.	38	931,848	22,279	8,393	434,697	15,073	222,855	13,605	47,242	18,045	98,696	50,963
Purdue U., West Lafayette	39	931,513	36,754	9,577	312,703	2,877	65,816	5,143	18,661	4,398	393,296	82,288
U. Illinois, Urbana-Champaign	40	906,751	87,866	17,050	252,675	4,557	94,494	16,212	13,338	15,584	351,544	53,431
Indiana U., Bloomington	41	896,983	38,091	7,252	676,286	2,202	35,906	17,464	40,975	14,295	18,075	46,437
Baylor C. of Medicine	42	881,226	0	0	881,226	0	0	0	0	0	0	0
U. Texas Southwestern Medical Center	43	869,297	0	0	856,368	0	0	1,247	0	0	11,682	0
U. Alabama, Birmingham	44	865,868	1,238	0	804,993	328	7,068	8,443	431	0	30,203	13,164
Rutgers, State U. New Jersey, New Brunswick	45	836,800	7,570	35,563	638,497	7,149	23,405	13,727	7,735	59	58,726	44,369
U. Virginia, Charlottesville	46	813,772	20,769	7,424	485,900	2,444	35,616	9,296	15,425	660	122,919	113,319
U. Utah	47	789,271	5,279	13,903	502,926	3,792	25,799	4,794	20,603	0	122,011	90,164
Boston U.	48	784,355	25,666	9,396	474,359	6,099	47,955	31,819	16,190	9,263	114,080	49,528
U. Colorado Anschutz Medical Campus	49	741,643	0	112	725,553	0	3,413	1,976	205	12	707	9,665
U. Cincinnati	50	739,878	5,655	1,736	601,423	1,563	15,163	9,505	9,575	1,189	61,486	32,583
U. Colorado Boulder	51	717,920	23,615	144,721	67,496	5,477	216,801	17,979	17,722	2,363	177,788	43,958
North Carolina State U.	52	717,004	29,902	40,505	318,755	21,587	33,956	1,703	10,116	18,351	218,277	23,852
U. Iowa	53	703,326	4,524	3,560	512,503	1,157	61,770	13,687	5,008	4,475	58,044	38,598
U. Chicago	54	680,753	33,015	10,662	423,438	6,518	91,142	7,997	44,548	0	50,292	13,141
U. Nebraska, Lincoln and Medical Center	55	657,468	11,730	3,041	443,757	6,412	37,111	20,822	9,201	847	80,020	44,527
Virginia Polytechnic Institute and State U.	56	656,916	41,836	6,616	243,388	9,686	27,023	8,294	12,797	0	277,605	29,671
U. California, Irvine	57	644,948	24,652	14,167	382,400	8,891	47,756	20,572	15,756	339	95,016	35,399
Case Western Reserve U.	58	642,546	6,796	812	503,586	631	29,596	2,175	11,004	1,579	71,589	14,778
U. Georgia	59	628,117	6,657	24,027	380,403	7,744	12,831	30,996	43,197	11,153	30,656	80,453
Uniformed Services U. of the Health Sciences	60	569,050	0	0	548,390	0	0	20,660	0	0	0	0
U. Miami	61	559,013	3,181	66,165	438,731	1,514	8,930	19,491	2,384	348	9,216	9,053
Princeton U.	62	558,624	31,282	38,860	143,985	22,256	126,669	6,538	75,033	0	101,614	12,387
U. Kansas	63	546,110	8,404	18,962	314,879	826	17,567	12,803	3,671	12,910	33,322	122,766
Oregon Health and Science U.	64	545,214	0	0	529,571	0	15	0	0	0	15,628	0
SUNY, U. Buffalo	65	541,880	22,035	6,528	307,957	2,352	15,999	5,304	4,091	1,412	124,566	51,636
U. Illinois, Chicago	66	532,181	13,828	2,297	377,159	5,818	29,158	4,776	12,321	13,094	45,603	28,127
U. Kentucky	67	527,658	5,595	3,368	394,244	1,570	7,951	6,972	5,458	15,420	67,561	19,519
Virginia Commonwealth U.	68	524,295	5,397	315	349,758	918	5,347	11,318	7,521	0	35,917	107,804
U. South Florida	69	521,892	25,342	35,121	262,781	3,848	11,512	9,216	37,648	720	65,144	70,560

Table 15. Higher education R&D expenditures at institutions in the standard form survey population, ranked by all R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

					Geosciences, atmospheric sciences, and ocean sciences									
Institution	Rank	All R&D expenditures	Computer and information sciences			Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields	
U. Missouri, Columbia	70	508,580	4,601		2,856	331,995	3,126	63,587	7,620	7,971	6,617	30,592	49,615	
Carnegie Mellon U.	71	505,262	226,521		2,279	16,609	15,304	29,444	10,771	12,619	10,509	160,149	21,057	
Scripps Research Institute	72	501,468	0		0	501,468	0	0	0	0	0	0	0	
U. Rochester	73	492,372	3,465		3,575	308,141	196	132,926	7,332	1,107	10,815	22,234	2,581	
U. Oklahoma <sup>c</sup>	74	474,043	10,171		75,016	201,157	2,801	21,856	5,758	22,733	10	76,633	57,908	
SUNY, U. Albany	75	471,605	26,525		17,049	45,735	3,085	7,405	4,899	19,206	0	322,259	25,442	
Colorado State U., Fort Collins	76	466,386	6,359		67,284	264,883	3,191	19,504	3,735	8,834	12,696	60,498	19,402	
U. Delaware	77	465,780	13,694		30,537	91,284	6,987	62,130	13,411	30,450	13,585	174,863	28,839	
Iowa State U.	78	462,347	8,511		4,773	183,829	21,109	33,716	3,739	9,126	387	159,841	37,316	
Florida State U.	79	460,733	10,703		18,743	96,687	8,337	65,299	22,284	32,115	10,928	82,132	113,505	
Utah State U.	80	451,379	3,947		2,124	65,311	1,270	4,997	8,496	2,363	0	356,169	6,702	
California Institute of Technology	81	445,173	9,683	i	39,150	i 93,708	i 1,385	i 217,325	i 2,127	i 1,852	i 3,859	i 75,727	i 357	i
U. Connecticut	82	433,545	7,766		14,533	245,050	2,882	17,099	27,773	12,747	819	84,479	20,397	
Louisiana State U., Baton Rouge	83	431,439	7,155		45,154	218,988	8,632	40,043	2,176	7,523	12,918	68,678	20,172	
U. Texas Health Science Center, Houston	84	419,123	0		0	419,123	0	0	0	0	0	0	0	
Dartmouth C. and Dartmouth Hitchcock Medical Center	85	418,429	19,902		10,487	198,991	10,931	25,933	15,800	26,298	6,499	50,635	52,953	
Washington State U.	86	403,369	9,776		10,860	234,489	1,097	28,106	6,081	15,498	4,156	50,128	43,178	
Auburn U., Auburn	87	393,557	10,193		6,447	162,201	4,486	21,128	3,523	5,080	7,857	122,623	50,019	
Wichita State U.	88	392,333	0		124	6,673	952	2,790	956	1,830	0	360,009	18,999	
U. Tennessee, Knoxville	89	386,949	4,108		4,141	123,958	3,986	29,393	4,421	11,516	34,522	128,648	42,256	
George Washington U.	90	381,582	10,075		2,199	204,084	3,317	10,157	6,439	40,965	16,409	33,883	54,054	
Georgetown U.	91	376,600	20,979		0	219,170	3,969	13,388	4,539	52,871	0	0	61,684	
U. Hawaii, Manoa	92	375,631	29,623		96,963	163,125	554	36,877	691	5,092	7,449	31,201	4,056	
Brown U.	93	374,504	17,725		18,744	189,384	18,319	17,356	14,023	38,684	12,783	33,027	14,459	
Oregon State U.	94	371,904	5,198		57,402	198,141	1,333	7,329	1,941	6,755	3,888	79,966	9,951	
Albert Einstein C. of Medicine	95	360,789	0		0	360,789	0	0	0	0	0	0	0	
Medical C. Wisconsin	96	360,309	0		0	354,383	0	0	0	0	0	5,926	0	
U. New Mexico	97	354,874	4,399		5,845	222,462	1,186	14,877	8,970	21,879	10,015	56,542	8,699	
U. Massachusetts, Medical School	98	349,616	0		0	349,616	0	0	0	0	0	0	0	
Northeastern U.	99	346,900	31,203		8,264	55,056	1,221	36,936	14,206	19,270	0	148,866	31,878	
U. Notre Dame	100	345,791	29,582		0	38,405	4,682	67,158	6,880	16,952	16,890	107,700	57,542	
Wake Forest U.	101	344,517	410		0	325,385	642	3,282	1,030	5,359	0	1,499	6,910	
Mississippi State U.	102	342,132	12,969		15,736	172,464	1,935	13,777	3,514	30,321	3,774	68,736	18,906	
Clemson U.	103	338,533	10,812		0	95,583	2,612	12,415	6,560	8,076	0	119,002	83,473	
Florida International U.	104	325,785	28,787		35,651	65,230	4,369	32,864	45,373	24,467	2,666	56,953	29,425	

Table 15. Higher education R&D expenditures at institutions in the standard form survey population, ranked by all R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences		Geosciences, atmospheric sciences, and ocean sciences	Life sciences		Mathematics and statistics		Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Medical U. South Carolina	105	320,990		0 i	0 i	320,990 i		0 i		0 i	0 i	0 i	0 i	0 i	0 i
SUNY, Stony Brook U.	106	319,258	16,096		40,242	130,477		8,285		43,761	4,326	3,175	20,621	46,622	5,653
Temple U.	107	314,999	8,067		1,324	232,715		1,919		16,166	17,070	5,394	182	11,150	21,012
U. Texas Health Science Center, San Antonio	108	312,791	0		0	312,791		0		0	0	0	0	0	0
Woods Hole Oceanographic Institution	109	308,240	0	i	211,895	0		0		0	0	0	0	96,345	0
Rockefeller U.	110	305,300	8,979		236	289,045		1,607		5,433	0	0	0	0	0
U. California, Santa Barbara	111	303,446	14,939		55,480	7,128		1,807		56,392	4,953	10,589	26,420	108,076	17,662
Wayne State U.	112	291,689	3,802		593	197,600		1,239		23,326	3,818	6,435	13,451	17,171	24,254
U. Central Florida	113	284,943	30,959		6,444	50,721		2,469		58,212	9,724	11,682	8,568	72,550	33,614
U. Massachusetts, Amherst	114	281,730	35,949		5,295	83,385		3,032		30,894	8,659	9,720	628	84,141	20,027
George Mason U.	115	281,697	33,166		19,501	42,035		3,135		7,545	4,449	75,128	111	70,807	25,820
Tufts U.	116	278,304	5,221		1,672	176,347		2,530		10,350	6,068	16,166	5,700	39,166	15,084
Rice U.	117	277,683	12,861		7,304	22,098		7,776		42,238	7,336	24,903	2,928	137,077	13,162
U. South Carolina, Columbia	118	277,329	6,087		8,069	117,807		3,292		4,057	14,171	17,499	412	58,185	47,750
Tulane U.	119	275,885	2,140		8,536	219,548		2,121		7,419	4,360	7,201	0	9,254	15,306
Thomas Jefferson U.	120	271,198	0		0	271,031		0		0	0	0	0	0	167
Kansas State U.	121	264,961	4,141		1,324	167,889		3,102		14,088	5,211	11,280	7,370	33,623	16,933
West Virginia U.	122	259,072	1,363		16,132	148,309		488		17,552	1,879	3,739	1,846	53,100	14,664
Montana State U., Bozeman	123	257,927	4,195		6,734	86,674		2,874		29,993	992	1,993	16,661	79,284	28,527
Texas Tech U.	124	256,919	6,153		11,505	82,461		4,448		16,895	9,025	13,453	0	59,044	53,935
U. Louisiana, Lafayette	125	254,883	29,012		5,512	111,687		3,164		4,981	99	5,984	1,686	42,556	50,202
Oklahoma State U., Stillwater	126	253,770	3,927		3,479	96,783		5,036		11,316	7,128	11,313	13,911	57,116	43,761
U. Dayton	127	252,537	33,562		323	1,487		60		403	250	15	0	211,395	5,042
U. Alaska, Fairbanks	128	246,295	1,511		135,045	41,835		510		14,007	0	4,532	10,521	35,676	2,658
U. Vermont	129	246,240	3,672		3,201	173,661		3,233		3,367	3,298	14,757	2,661	20,298	18,092
Georgia State U.	130	241,115	7,588		3,297	95,581		2,284		22,900	13,468	30,605	0	0	65,392
U. Texas Medical Branch	131	241,072	0		0	239,038		0		0	0	0	0	2,034	0
U. Houston	132	238,996	8,204		12,484	49,222		4,977		25,788	18,903	5,303	886	74,661	38,568
U. California, Riverside	133	231,596	9,592		12,600	114,372		2,418		22,175	5,695	10,542	0	42,901	11,301
U. Arkansas, Fayetteville	134	230,626	11,648		2,743	98,122		1,332		14,686	2,621	7,713	1,255	63,086	27,420
U. New Hampshire	135	230,224	1,738		95,042	57,624		1,732		5,694	1,024	18,574	0	34,616	14,180
U. Arkansas for Medical Sciences	136	226,842	i 0	i	0 i	226,842 i		0 i		0 i	0 i	0 i	0 i	0 i	0 i
U. Louisville	137	224,969	87		222	169,510		340		2,120	4,320	1,456	1,074	25,846	19,994
U. Alabama, Tuscaloosa	138	221,235	17,105		35,455	22,097		2,599		14,912	7,374	10,449	1,277	62,000	47,967
U. California, Santa Cruz	139	218,426	13,022		30,975	42,509		3,404		47,399	1,726	7,988	3,508	54,214	13,681



Table 15. Higher education R&D expenditures at institutions in the standard form survey population, ranked by all R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
North Dakota State U.	140	199,885	3,598	571	130,237	1,713	10,428	2,689	8,877	3,973	26,245	11,554
U. Maine	141	198,870	2,795	29,038	58,059	761	6,772	784	2,133	15,821	71,425	11,282
Syracuse U.	142	198,750	8,461	3,324	23,740	2,419	21,465	3,652	15,820	732	25,436	93,701
U. North Dakota	143	197,428	5,564	8,125	35,371	468	5,955	1,874	1,807	238	121,983	16,043
U. Nevada, Reno	144	194,131	7,002	14,989	89,134	1,690	13,950	6,385	6,348	0	38,129	16,504
U. Mississippi	145	189,910	1,281	2,142	117,035	1,141	16,107	1,956	4,655	505	13,909	31,179
U. Texas, Dallas	146	181,795	10,496	1,440	47,411	1,367	26,678	4,080	2,578	62	70,912	16,771
San Diego State U.	147	181,600	2,985	2,835	49,862	5,144	13,662	26,029	8,190	10,162	17,100	45,631
U. Oregon	148	174,785	6,444	8,242	63,074	1,416	18,975	24,488	6,167	1,864	6,064	38,051
New Jersey Institute of Technology	149	171,741	14,898	0	25,951	5,519	21,874	0	142	83	93,704	9,570
U. Texas, San Antonio	150	171,528	23,992	6,720	31,720	1,850	15,528	2,746	11,423	2,404	30,334	44,811
Drexel U.	151	170,205	7,264	0	95,121	862	3,114	4,617	2,268	1,395	43,751	11,813
U. Wyoming	152	167,306	3,603	28,168	61,043	1,554	5,611	949	7,616	17,718	32,812	8,232
Augusta U.	153	166,219	1,041	0	160,627	124	632	65	1,009	0	0	2,721
Texas State U.	154	165,047	4,890	6,500	24,294	6,185	11,185	1,628	12,892	6,586	15,009	75,878
SUNY, Binghamton U.	155	160,644	9,881	2,009	21,340	4,306	16,599	13,331	23,162	0	49,701	20,315
Brigham Young U., Provo	156	158,319	6,020	1,645	27,070	7,296	13,576	3,583	9,796	41	31,754	57,538
U. Texas, El Paso	157	157,574	9,353	5,889	41,893	2,946	9,915	6,556	4,755	4,038	48,749	23,480
U. Alabama, Huntsville	158	154,494	37,913	27,921	3,118	883	18,131	279	1,344	0	54,721	10,184
U. Texas, Arlington	159	153,780	11,188	918	21,975	3,704	18,863	2,143	133	0	72,342	22,514
U. Maryland, Baltimore County	160	150,908	19,835	35,792	15,277	2,374	25,941	3,292	21,872	3,941	10,580	12,004
U. Montana, Missoula	161	143,810	2,684	5,694	87,476	862	11,805	623	21,866	0	0	12,800
New Mexico State U.	162	142,872	4,941	5,065	63,351	425	15,274	280	657	5,231	45,317	2,331
U. Idaho	163	140,413	6,411	6,531	91,415	1,115	3,372	337	4,450	4,491	14,091	8,200
Rensselaer Polytechnic Institute	164	140,247	26,248	2,249	9,226	2,576	13,381	4,381	2,235	0	71,966	7,985
Rush U.	165	139,295	0	0	134,601	0	0	4,694	0	0	0	0
U. Rhode Island	166	137,462	1,574	55,727	40,419	29	3,774	3,926	3,250	2,617	17,567	8,579
Baylor U.	167	134,876	2,198	5,860	20,415	4,826	15,837	7,871	7,295	4,830	16,077	49,667
Cold Spring Harbor Laboratory	168	126,502	0	0	126,502	0	0	0	0	0	0	0
U. Tennessee, Health Science Center	169	124,771	0	0	123,809	0	0	0	0	210	752	0
U. North Texas, Denton	170	124,219	11,857	644	14,707	2,181	10,749	5,564	7,825	0	36,595	34,097
U. Massachusetts, Lowell	171	120,672	8,014	996	22,364	211	19,341	1,740	6,071	739	57,744	3,452
U. Nevada, Las Vegas	172	118,049	3,282	6,010	41,305	3,156	13,002	2,580	6,099	1,095	21,008	20,512
U. North Texas, Health Science Center	173	110,499	0	0	107,104	0	0	0	3,395	0	0	0
Colorado School of Mines	174	109,905	4,700	11,521	2,418	1,455	18,210	14	1,373	25	67,559	2,630



Table 15. Higher education R&D expenditures at institutions in the standard form survey population, ranked by all R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Memphis	175	108,862	9,152	i 5,528 i	11,232	i 1,174 i	2,022	i 7,862 i	10,157	i 17,083 i	25,468	i 19,184 i
Brandeis U.	176	107,059	3,259	29	32,342	2,683	20,356	5,208	27,935	1,115	6,867	7,265
Michigan Technological U.	177	106,919	10,034	17,614	10,643	1,858	4,894	624	1,339	1,509	55,630	2,774
Howard U.	178	101,815	7,934	0	58,981	494	8,110	2,376	2,209	0	13,345	8,366
Boston C.	179	96,310	1,497	9,572	15,173	1,294	15,124	6,048	13,293	0	1,305	33,004
Saint Louis U.	180	95,832	2,134	10,608	60,506	306	4,226	154	2,066	0	5,214	10,618
U. North Carolina, Charlotte	181	94,895	12,084	2,615	12,446	2,738	8,511	2,425	8,101	0	22,653	23,322
William & Mary	182	94,609	5,211	47,694	4,485	396	7,888	487	14,053	160	0	14,235
Northern Arizona U.	183	93,749	10,811	5,900	54,477	56	7,264	335	655	1,467	9,875	2,909
U. Southern Mississippi	184	93,692	506	31,569	16,674	0	13,064	0	5,187	0	11,700	14,992
U. Texas Rio Grande Valley	185	90,610	2,154	3,888	37,802	3,683	4,627	1,697	3,919	747	15,318	16,775
Indiana U.-Purdue U., Indianapolis	186	88,989	5,108	2,327	30,927	640	5,141	3,347	17,850	1,223	6,808	15,618
San Jose State U.	187	88,125	376	18,296	7,241	1,488	6,763	17,259	5,157	113	8,237	23,195
Florida Atlantic U.	188	87,906	5,535	1,903	40,183	837	4,374	2,152	263	0	17,107	15,552
Cleveland State U.	189	85,839	0	0	44,788	1,132	1,904	822	6,881	0	21,401	8,911
Van Andel Research Institute	190	83,309	0	0	83,309	0	0	0	0	0	0	0
South Dakota State U.	191	82,246	35	1,884	64,031	1,017	3,388	559	1,632	0	8,537	1,163
North Carolina A&T State U.	192	81,845	2,853	0	32,216	1,178	3,837	222	1,011	3,351	29,902	7,275
CUNY, Graduate Center	193	80,831	1,796	2,764	5,701	2,987	6,345	8,680	22,819	389	491	28,859
New Mexico Institute of Mining and Technology	194	79,857	23,570	13,841	492	23	6,636	365	0	0	32,554	2,376
Louisiana State U., Health Sciences Center, New Orleans	195	79,680	0	0	79,680	0	0	0	0	0	0	0
U. California, Office of the President	196	79,293	0	23,676	45,946	0	9,278	0	0	0	0	393
Rochester Institute of Technology	197	78,488	12,507	0	4,157	2,843	15,964	492	2,014	0	33,180	7,331
American U.	198	78,356	315	4,294	1,173	376	4,981	1,222	11,061	4,891	0	50,043
U. North Carolina, Greensboro	199	77,370	1,164	21	17,153	500	11,532	5,824	9,964	33	0	31,179
U. California, Merced	200	77,233	2,909	5,713	15,177	2,677	8,589	883	11,890	3,649	18,045	7,701
Touro U., New York	201	76,867	0	0	76,781	0	0	0	0	0	0	86
Old Dominion U.	202	76,202	5,028	3,937	17,004	1,478	8,574	1,527	1,388	0	31,644	5,622
U. Massachusetts, Boston	203	74,625	1,688	3,341	12,856	719	3,595	6,228	14,947	551	1,773	28,927
Naval Postgraduate School	204	73,230	10,103	9,612	422	2,727	2,967	167	3,047	1,722	37,396	5,067
U. Toledo	205	73,200	0	6,735	35,076	73	12,820	224	25	0	11,782	6,465
East Carolina U.	206	72,539	1,827	10,116	43,515	114	2,159	2,655	1,632	0	3,367	7,154
CUNY, City C.	207	71,684	839	1,906	9,882	665	12,549	1,413	9,108	10	25,432	9,880
Worcester Polytechnic Institute	208	71,552	11,580	0	4,455	3,428	5,912	0	1,592	0	40,692	3,893
Stevens Institute of Technology	209	70,736	3,582	4,185	0	508	2,090	0	0	0	57,044	3,327

Table 15. Higher education R&D expenditures at institutions in the standard form survey population, ranked by all R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. South Alabama	210	70,084	4,064	10,884	29,448	1,228	1,017	5,281	1,255	0	11,730	5,177
Missouri U. of Science and Technology	211	69,534	4,963	0	1,221	310	4,787	537	211	180	55,848	1,477
Morehouse School of Medicine	212	68,746	0	0	68,746	0	0	0	0	0	0	0
Florida A&M U.	213	68,674	259	5,592	32,033	111	2,390	98	1,267	0	15,567	11,357
Ohio U.	214	67,430	549	3,806	23,448	107	7,216	3,134	3,175	0	17,228	8,767
U. Wisconsin-Milwaukee	215	66,270	597	9,394	10,766	237	10,688	6,675	5,607	2,323	11,760	8,223
Rowan U.	216	63,984	1,231	1,201	20,750	537	4,045	1,094	1,610	0	24,283	9,233
Southern Methodist U.	217	62,553	2,439	5,525	2,528	2,347	6,011	1,522	1,649	1,994	12,774	25,764
Lehigh U.	218	62,406	3,139	1,919	11,314	470	5,784	459	609	13	35,324	3,375
Western Michigan U. and Homer Stryker M.D. School of Medicine	219	62,063	318	7,180	11,592	1,246	1,842	1,899	3,388	659	16,263	17,676
Southern Illinois U., Carbondale	220	61,460	1,651	1,405	38,541	319	3,819	1,400	3,329	518	4,600	5,878
Loyola U., Chicago	221	61,454	1,330	0	53,151	54	2,045	1,133	1,671	0	23	2,047
U. Puerto Rico, Medical Sciences Campus	222	61,453	0	0	61,453	0	0	0	0	0	0	0
Kent State U.	223	61,437	2,548	1,909	15,031	1,544	8,976	4,144	5,854	1,661	2,221	17,549
Nova Southeastern U.	224	60,629	2,356	15,398	31,865	0	0	2,777	0	0	0	8,233
SUNY, Upstate Medical U.	225	59,482	0	0	59,482	0	0	0	0	0	0	0
Boise State U.	226	57,749	3,272	4,871	12,670	837	8,624	311	2,749	1,472	19,438	3,505
Catholic U. of America	227	57,705	295	0	2,112	266	38,974	1,498	885	0	4,134	9,541
U. Missouri, Kansas City	228	57,030	2,783	143	20,912	0	1,932	4,199	740	1,716	17,747	6,858
U. Denver	229	55,630	801	316	9,010	173	2,256	7,398	7,196	208	3,329	24,943
Morgan State U.	230	55,506	2,793	10,741	11,271	585	3,131	402	2,438	0	12,790	11,355
Air Force Institute of Technology	231	54,204	6,666	1,193	0	12,909	8,178	0	0	0	24,545	713
U. Maryland Center for Environmental Science	232	54,036	56	44,622	8,852	0	80	0	0	0	0	426
U.S. Air Force Academy	233	53,158	1,329	0	9,313	37	4,115	98	109	910	37,077	170
Texas Tech U., Health Sciences Center	234	52,986	0	0	50,341	0	0	0	0	0	0	2,645
Texas A&M U.-Corpus Christi	235	52,175	2,696	20,100	4,703	940	2,226	44	725	2,157	12,277	6,307
Portland State U.	236	51,677	1,834	2,022	15,912	2,019	1,221	1,274	7,234	319	6,803	13,039
Kennesaw State U.	237	51,575	4,324	0	11,881	571	171	1	177	0	5,148	29,302
Marquette U.	238	49,099	2,289	0	18,366	800	3,068	1,734	533	0	13,202	9,107
Chapman U.	239	48,308	2,188	200	17,816	35	1,845	1,450	9,820	0	2,118	12,836
Mercer U.	240	46,504	439	0	10,893	236	1,195	260	70	0	32,951	460
Georgia Southern U.	241	46,093	1,417	1,017	9,953	1,991	6,163	1,008	5,175	1	5,206	14,162
CUNY, Hunter C.	242	45,223	2,252	1,537	9,973	491	6,245	9,549	3,308	0	357	11,511
Montclair State U.	243	43,798	1,814	3,011	7,324	1,142	2,775	5,989	5,020	0	538	16,185
Delaware State U.	244	43,724	327	158	26,511	246	5,161	0	4,899	0	567	5,855

Table 15. Higher education R&D expenditures at institutions in the standard form survey population, ranked by all R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. West Florida	245	43,503	14,533	124	4,480	8	1,414	334	4,156	0	924	17,530
East Tennessee State U.	246	42,526	0	180	16,498	0	484	12	164	9	264	24,915
U. Massachusetts, Dartmouth	247	42,352	3,359	16,218	3,371	2,139	3,681	1	170	0	12,418	995
San Francisco State U.	248	42,000	2,599	3,932	17,958	1,589	3,275	2,006	4,921	1,250	2,145	2,325
Marshall U.	249	39,178	1,497	751	23,744	88	1,098	0	79	0	6,097	5,824
SUNY, C. of Environmental Science and Forestry	250	38,661	211	1,710	24,181	32	2,747	5,743	252	0	1,825	1,960
Oakland U.	251	38,508	4,439	0	12,483	69	9,596	371	199	0	10,392	959
California Polytechnic State U., San Luis Obispo	252	38,133	458	2,146	12,682	3,304	5,984	97	675	15	7,251	5,521
Illinois Institute of Technology	253	37,990	3,942	99	14,261	554	2,839	0	165	169	15,745	216
SUNY, Downstate Health Sciences U.	254	37,322	0	0	37,322	0	0	0	0	0	0	0
Tennessee Technological U.	255	36,399	4,919	197	5,536	152	1,277	455	363	0	17,343	6,157
U. Nebraska, Omaha	256	35,134	5,660	346	9,018	589	1,331	297	4,432	10,023	1,936	1,502
Tennessee State U.	257	35,017	2,006	0	23,001	0	642	207	0	0	5,176	3,985
Embry-Riddle Aeronautical U.	258	35,014	12	3,102	791	733	6,829	0	189	0	22,820	538
Northern Illinois U.	259	34,467	1,217	2,140	4,230	191	7,330	1,876	6,802	0	7,223	3,458
Illinois State U.	260	34,238	141	434	4,501	124	1,672	101	734	0	0	26,531
Teachers C., Columbia U.	261	34,096	2,759	0	6,560	0	0	2,892	21,831	0	0	54
California State U., Sacramento	262	33,952	158	932	1,665	126	916	183	1,882	10,703	12,631	4,756
California State U., Long Beach	263	33,897	756	287	18,523	844	2,899	1,971	1,210	471	4,265	2,671
California State U., Fullerton	264	33,709	971	1,311	7,342	1,063	2,246	2,038	3,625	82	1,138	13,893
U. Puerto Rico, Rio Piedras	265	33,659	999	3,718	4,138	127	8,726	57	1,509	4,113	2,564	7,708
Villanova U.	266	33,090	483	1,033	4,529	186	3,440	1,152	1,024	0	13,792	7,451
U. Tulsa	267	32,802	10,299	12	3,134	7	970	1,402	668	987	11,536	3,787
Desert Research Institute	268	32,250	0	32,180	70	0	0	0	0	0	0	0
Louisiana State U., Health Sciences Center, Shreveport	269	31,887	0	0	31,887	0	0	0	0	0	0	0
CUNY, Queens C.	270	31,845	694	1,286	17,612	677	3,591	3,080	2,043	131	0	2,731
Texas A&M U.-Kingsville	271	31,751	378	0	23,355	0	492	53	51	117	4,751	2,554
Prairie View A&M U.	272	31,632	406	69	14,444	267	2,245	7	970	50	9,454	3,720
Louisiana Tech U.	273	31,247	1,798	0	3,924	826	2,131	160	621	0	15,478	6,309
U. Minnesota, Duluth	274	29,901	342	596	24,266	289	762	438	324	0	2,163	721
Tuskegee U.	275	29,720	1,222	360	21,612	808	2,697	74	0	0	2,947	0
Creighton U.	276	29,334	1,226	0	21,684	409	2,084	375	1,299	0	0	2,257
CUNY, Graduate School of Public Health and Health Policy	277	28,637	0	0	28,470	0	0	0	0	0	0	167
Miami U.	278	28,566	759	631	10,972	486	914	1,719	2,047	0	4,806	6,232
Fordham U.	279	28,249	355	126	2,187	104	1,115	5,015	2,293	470	0	16,584

Table 15. Higher education R&D expenditures at institutions in the standard form survey population, ranked by all R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. South Dakota	280	27,908	348	18	16,676	211	3,689	1,534	571	0	1,198	3,663
Eastern Virginia Medical School	281	27,891	0	0	27,891	0	0	0	0	0	0	0
Texas Christian U.	282	27,659	0	2,046	4,049	239	4,495	1,642	162	6,164	126	8,736
Central Michigan U.	283	27,429	45	1,375	19,208	133	2,671	91	167	2,187	414	1,138
California State U., Northridge	284	27,009	616	1,604	7,205	779	7,995	1,497	642	734	2,872	3,065
California State Polytechnic U., Humboldt	285	26,607	140	2,008	10,453	204	1,146	125	3,979	537	6,072	1,943
U. Puerto Rico, Mayaguez	286	26,455	289	5,370	1,740	22	3,372	56	88	0	13,622	1,896
U. Texas Health Science Center, Tyler	287	26,240	0	0	26,240	0	0	0	0	0	0	0
Rutgers, State U. New Jersey, Newark	288	26,222	953	2,484	11,026	0	2,844	1,242	3,763	61	0	3,849
Clarkson U.	289	26,150	116	135	3,100	891	3,290	190	75	0	15,279	3,074
U. Guam	290	25,306	0	7,752	15,770	170	566	0	103	0	0	945
Tarleton State U.	291	24,875	521	1,651	12,080	248	593	714	534	997	1,024	6,513
Jackson State U.	292	24,744	468	129	5,902	96	7,595	141	1,161	1,393	4,121	3,738
U. Alaska, Anchorage	293	24,649	0	2,394	13,081	0	806	795	3,994	959	1,833	787
U. Akron	294	24,568	83	269	2,351	47	9,923	329	239	0	10,504	823
U. Colorado Denver	295	24,313	715	857	5,981	1,115	1,867	1,249	644	32	3,950	7,903
South Dakota School of Mines and Technology	296	23,941	229	614	0	45	6,461	0	0	0	16,592	0
New School	297	23,902	178	30	4,026	14	22	0	11,482	3,063	1,495	3,592
Loma Linda U.	298	23,898	0	0	22,739	0	0	1,159	0	0	0	0
Florida Gulf Coast U.	299	23,841	46	5,557	1,952	8	127	21	198	0	139	15,793
Meharry Medical C.	300	23,691	i 547	i 0	i 23,144	i 0	i 0	i 0	i 0	i 0	i 0	i 0
Charles R. Drew U. of Medicine and Science	301	23,664	0	0	23,664	0	0	0	0	0	0	0
Western Washington U.	302	23,275	504	5,900	1,308	618	3,251	823	1,882	3,551	614	4,824
Albany Medical C.	303	23,054	0	0	23,054	0	0	0	0	0	0	0
U. North Carolina, Wilmington	304	22,672	414	8,350	8,921	41	997	333	1,149	459	1,027	981
Wright State U.	305	22,647	4,466	154	13,000	14	894	645	0	147	3,281	46
Montana Technological U.	306	22,588	52	11,465	1,509	0	66	0	0	0	9,496	0
CUNY, Advanced Science Research Center	307	22,464	0	591	6,355	0	12,998	0	0	0	2,511	9
U.S. Military Academy	308	22,292	2,930	495	589	2,994	1,801	131	2,926	0	10,271	155
New York Medical C.	309	21,852	0	0	21,852	0	0	0	0	0	0	0
James Madison U.	310	21,394	761	508	4,903	567	2,516	1,035	728	27	706	9,643
CUNY, John Jay C. of Criminal Justice	311	21,156	0	0	641	238	471	2,104	2,502	0	0	15,200
Bowling Green State U.	312	19,615	469	1,421	4,885	135	1,811	1,209	4,273	24	86	5,302
U. North Florida	313	19,318	577	0	2,976	52	840	1,396	909	0	3,876	8,692
U. New Orleans	314	19,311	2,292	1,612	1,113	614	1,937	637	1,728	326	2,539	6,513

Table 15. Higher education R&D expenditures at institutions in the standard form survey population, ranked by all R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences		Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics		Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Towson U.	315	19,215	4,640		657	4,462	950		2,466	483	1,374	12	11	4,160
Texas Southern U.	316	19,045	176		0	12,773	239		1,669	482	1,109	0	98	2,499
Long Island U.	317	18,759	402		30	8,226	226		846	1,392	727	0	378	6,532
Duquesne U.	318	18,348	0		131	13,174	240		934	298	328	0	308	2,935
Florida Institute of Technology	319	17,842	3,252		3,728	2,402	154		1,718	191	0	346	5,886	165
Southern Illinois U., Edwardsville	320	17,673	110		776	3,945	112		491	27	901	908	9,362	1,041
Idaho State U.	321	17,494	1,063		2,314	5,224	223		1,671	120	743	455	5,458	223
Sam Houston State U.	322	16,716	656		203	3,496	63		609	116	4,332	0	93	7,148
Alabama A&M U.	323	16,248	622	i	0	9,243	140	i	1,197	309	488	0	3,344	905
North Carolina Central U.	324	16,212	127		877	120	0		3,323	14	821	15	10,915	0
Missouri State U.	325	16,103	0		315	1,893	0		201	213	10	0	13,388	83
Oklahoma State U., Center for Health Sciences	326	16,054	112		0	13,658	0		0	2,281	0	0	0	3
Xavier U. Louisiana	327	15,955	309		0	7,586	70		7,613	0	109	0	268	0
Texas Tech U., Health Sciences Center, El Paso	328	15,603	0		0	13,876	0		0	0	0	0	0	1,727
Loyola Marymount U.	329	15,570	121		42	1,449	69		99	2,925	1,409	0	378	9,078
CUNY, Brooklyn C.	330	15,244	350		3,084	2,092	593		2,964	1,865	414	0	0	3,882
Alcorn State U.	331	14,844	0		0	10,101	0		0	0	4,335	0	408	0
U. of the Virgin Islands	332	14,762	0		4,840	7,279	311		1,189	0	0	0	792	351
U. Missouri, Saint Louis	333	14,698	300		71	6,901	34		961	631	2,065	15	643	3,077
U. Hawaii, system office	334	14,542	783		13,730	0	0		0	0	29	0	0	0
Salisbury U.	335	14,422	266		2,773	1,727	34		84	39	601	0	1	8,897
California State U., Fresno	336	14,410	616		153	7,222	1,407		659	52	1,480	186	2,396	239
California State U., East Bay	337	14,307	122		1,111	2,170	213		1,225	212	287	0	146	8,821
California State Polytechnic U., Pomona	338	13,685	669		154	4,322	294		1,947	19	145	252	1,982	3,901
Midwestern U.	339	13,632	0		0	13,632	0		0	0	0	0	0	0
Kentucky State U.	340	13,534	0		0	13,421	0		0	0	0	0	0	113
Clark Atlanta U.	341	13,424	241		0	7,056	302		3,329	0	0	127	174	2,195
U. Maryland, Eastern Shore	342	13,422	0		3,657	9,190	0		5	0	337	0	213	20
Langston U.	343	13,340	0		0	11,477	27		107	1,158	2	373	127	69
Virginia State U.	344	13,271	169		6	8,940	199		173	433	0	0	2,156	1,195
Ball State U.	345	13,095	107		0	6,503	98		1,317	695	566	0	58	3,751
Northeast Ohio Medical U.	346	13,049	0		141	12,559	163		0	0	117	53	0	16
California State U., San Marcos	347	12,788	724		328	2,590	28		535	650	355	4,471	1,454	1,653
Clark U.	348	12,707	182		2,150	4,632	47		1,462	288	3,787	0	0	159
Winston-Salem State U.	349	12,650	225		0	2,509	72		1,715	224	101	0	0	7,804

Table 15. Higher education R&D expenditures at institutions in the standard form survey population, ranked by all R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. San Diego	350	12,649	0	140	1,018	1,928	1,568	275	1,152	0	548	6,020
South Carolina State U.	351	12,496	248	0	8,035	0	429	0	0	0	1,796	1,988
U. Michigan, Dearborn	352	12,460	14	0	280	314	346	365	197	9	10,273	662
U. Tennessee, Chattanooga	353	12,104	761	0	1,032	506	567	360	50	4,486	1,913	2,429
Rosalind Franklin U. of Medicine and Science	354	11,769	0	0	10,668	0	0	1,101	0	0	0	0
Fort Valley State U.	355	11,727	0	101	11,456	116	50	0	0	0	0	4
California State U., Monterey Bay	356	11,717	1,860	3,462	4,664	239	591	0	390	285	45	181
West Texas A&M U.	357	11,616	417	134	8,795	0	118	0	0	0	1,545	607
Central State U.	358	11,459	0	238	10,516	70	356	0	0	45	234	0
California State U., San Bernardino	359	11,339	1,941	243	2,337	630	1,801	3,039	650	103	95	500
Appalachian State U.	360	11,293	674	675	4,590	97	2,764	239	743	0	430	1,081
Western Kentucky U.	361	11,213	40	1,367	3,526	61	1,996	1,404	418	0	674	1,727
Eastern Michigan U.	362	11,202	0	170	1,047	63	0	104	55	0	18	9,745
Western U. of Health Sciences	363	11,190	0	0	5,996	0	0	0	0	0	0	5,194
U. San Francisco	364	10,962	421	318	2,527	267	268	970	1,034	6	9	5,142
Arkansas State U., Jonesboro	365	10,950	383	35	6,737	133	993	119	200	395	668	1,287
California State U., Los Angeles	366	10,889	393	317	1,649	0	4,135	4	681	0	2,200	1,510
Pepperdine U.	367	10,870	33	0	2,374	107	151	1,080	2,762	74	0	4,289
Wesleyan U.	368	10,819	0	1,074	1,469	922	3,130	1,045	238	234	0	2,707
Hampton U.	369	10,660	732	2,102	2,275	235	2,536	0	183	0	1,188	1,409
U.S. Naval Academy	370	10,592	1,054	494	0	574	2,319	0	291	0	5,860	0
DePaul U.	371	10,522	1,027	783	2,842	112	9	461	209	27	80	4,972
U. Arkansas, Little Rock	372	10,461	2,549	599	3,654	0	93	0	466	0	2,281	819
Saint Joseph's U.	373	10,451	0	0	7,305	8	907	370	26	0	0	1,835
Hofstra U.	374	10,425	1,279	134	1,886	286	444	580	778	0	431	4,607
Yeshiva U.	375	10,290	263	0	5,781	90	260	0	0	157	0	3,739
MGH Institute of Health Professions	376	10,029	0	0	8,800	0	0	0	0	0	0	1,229
Rutgers, State U. New Jersey, Camden	377	9,849	2,975	1	703	10	346	32	3,466	0	0	2,316
Purdue U., Northwest	378	9,549	987	0	1,244	0	514	359	0	201	3,182	3,062
Gallaudet U.	379	9,524	3,040	23	1,945	128	359	588	2,899	0	0	542
Kean U.	380	9,479	1,021	214	2,426	111	317	1,173	1,463	163	1	2,590
Seton Hall U.	381	9,477	321	0	5,489	3	2,773	0	0	0	0	891
U. of the District of Columbia	382	9,386	201	131	4,139	0	0	0	0	0	3,627	1,288
Lincoln U., Jefferson City	383	9,261	0	1,128	7,485	0	0	0	269	378	0	1
Texas Woman's U.	384	8,998	53	0	4,353	225	571	1,233	333	0	0	2,230



Table 15. Higher education R&D expenditures at institutions in the standard form survey population, ranked by all R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

					Geosciences, atmospheric sciences, and ocean sciences																		
Institution	Rank	All R&D expenditures	Computer and information sciences			Life sciences	Mathematics and statistics		Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields									
Southern U. and A&M C., Agricultural Research and Extension Center	385	8,969		0	0	8,969		0	0	0	0	0	0	0									
California State U., Chico	386	8,918		176	67	4,181		11	547	11	1,233	0	1,450	1,242									
Middle Tennessee State U.	387	8,736		307	253	2,746		249	1,221	82	787	0	201	2,890									
Amherst C.	388	8,666		291	1,141	1,193		392	2,004	217	1,151	1,046	0	1,231									
C. Charleston	389	8,662		261	3,227	1,222		125	1,251	265	368	0	911	1,032									
U. Hawaii, Hilo	390	8,501		411	1,863	5,194		28	146	0	317	233	0	309									
U. Northern Colorado	391	8,476		48	428	1,641		347	380	862	938	0	0	3,832									
California State U., Bakersfield	392	8,457		0	1,155	735		1,465	266	473	728	0	586	3,049									
Lawrence Technological U.	393	8,435		0	0	0		260	99	0	0	0	912	7,164									
Pacific U.	394	8,383		0	0	5,033		3	415	9	353	0	0	2,570									
Texas A&M International U.	395	8,378		0	143	1,374		206	377	618	1,107	503	768	3,282									
U. Wisconsin-Superior	396	8,355		0	7,168	269		0	0	0	0	0	4	914									
Lamar U.	397	8,324		128	38	423		0	555	0	195	0	6,270	715									
Edward Via C. of Osteopathic Medicine	398	8,132		0	0	8,132		0	0	0	0	0	0	0									
U. New England	399	8,093		0	578	7,251		0	18	4	6	0	206	30									
Santa Clara U.	400	8,011		0	0	634		37	824	596	307	0	4,165	1,448									
U. Arkansas, Pine Bluff	401	7,975		0	0	6,130		0	985	0	0	153	0	707									
U. Washington, Tacoma	402	7,973		453	5,264	840		127	0	2	115	0	352	820									
Abilene Christian U.	403	7,868		18	0	253		0	7,057	0	115	0	68	357									
Benedict C.	404	7,788		764	0	722		177	1,083	0	0	0	218	4,824									
Claremont McKenna C.	405	7,777		131	139	726		150	69	782	5,307	30	0	443									
Southern Connecticut State U.	406	7,620		277	345	1,120		204	420	494	285	1,134	6	3,335									
Philadelphia C. of Osteopathic Medicine	407	7,611		0	0	7,611		0	0	0	0	0	0	0									
U. Colorado Colorado Springs	408	7,528		2,418	89	993		194	1,035	235	206	12	1,070	1,276									
Marian U., Indianapolis	409	7,524		17	0	2,810		94	123	173	26	506	1,497	2,278									
Smith C.	410	7,375		542	251	2,640		634	769	201	303	401	417	1,217									
Norfolk State U.	411	7,309		980	0	483		0	1,479	0	225	0	2,016	2,126									
Texas A&M U.-San Antonio	412	7,149		383	39	4,376		22	0	296	68	338	0	1,627									
Grinnell C.	413	7,131		766	49	408		119	1,248	357	779	0	0	3,405									
Williams C.	414	7,074	i	149	i	2,838	i	129	i	258	i	670	i	0	i	1,775	i						
Pennsylvania State U., Behrend	415	7,054		94		1,162		18		571		111		17		0		1,528		578			
Grand Valley State U.	416	7,041	i	122	i	3,379	i	1,581	i	85	i	382	i	84	i	670	i	0	i	271	i	467	i
Wellesley C.	417	6,989		260		555		1,138		203		1,004		659		878		0		33		2,259	
Northwest Indian C.	418	6,988	i	0	i	72	i	606	i	0	i	0	i	0	i	0	i	0	i	274	i	6,036	i
Dine C.	419	6,960		0		0		4,091		85		0		0		0		0		0		2,784	



Table 15. Higher education R&D expenditures at institutions in the standard form survey population, ranked by all R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
West Chester U. Pennsylvania	420	6,870	106	77	1,240	95	1,142	392	917	0	51	2,850
U.S. Army War C.	421	6,819	i 0	i 0	i 0	i 0	i 0	i 0	i 6,819	i 0	i 0	i 0
Texas A&M U.-Commerce	422	6,811	923	0	1,903	228	1,109	349	286	0	123	1,890
Indiana U. Pennsylvania	423	6,568	178	109	2,591	0	549	411	240	1	56	2,433
New York Institute of Technology	424	6,559	18	0	5,271	0	357	0	5	0	721	187
Sul Ross State U.	425	6,546	728	282	2,610	0	225	0	0	0	0	2,701
U. Southern Maine	426	6,545	519	534	2,515	4	347	0	738	16	600	1,272
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	427	6,480	0	0	6,480	0	0	0	0	0	0	0
Barnard C.	428	6,361	255	324	1,557	72	1,197	1,177	804	0	0	975
Oregon Institute of Technology	429	6,311	i 270	i 638	i 3,982	i 175	i 0	i 173	i 0	i 0	i 1,073	i 0
Bryn Mawr C.	430	6,302	247	131	986	168	693	125	769	0	0	3,183
CUNY, Lehman C.	431	6,259	9	143	1,217	149	2,796	161	772	0	0	1,012
Roseman U. of Health Sciences	432	6,198	0	0	6,198	0	0	0	0	0	0	0
Bucknell U.	433	6,193	354	157	1,579	161	1,073	155	356	259	1,574	525
Swarthmore C.	434	6,067	199	0	1,492	171	1,164	309	642	0	528	1,562
West Virginia State U.	435	6,059	0	0	6,059	0	0	0	0	0	0	0
U. of St. Thomas (MN)	436	5,994	10	23	209	77	395	434	0	0	4,427	419
CUNY, Baruch C.	437	5,977	305	63	1,452	672	5	279	400	0	0	2,801
Providence C.	438	5,924	0	144	1,506	31	355	113	55	0	53	3,667
Alfred U.	439	5,915	0	2	0	0	18	394	0	0	5,501	0
Morehouse C.	440	5,903	1,049	0	465	31	2,276	96	24	1,643	0	319
Naval War C.	441	5,868	0	0	0	0	0	0	820	0	0	5,048
Fairfield U.	442	5,839	409	25	611	449	222	244	532	0	552	2,795
Trinity U.	443	5,838	168	333	1,449	80	1,953	432	446	51	319	607
U. Baltimore	444	5,797	477	0	0	0	0	46	3,237	0	0	2,037
California State U., Dominguez Hills	445	5,762	586	223	1,202	46	1,115	477	669	0	0	1,444
Occidental C.	446	5,753	98	1,591	776	48	838	105	1,469	498	0	330
CUNY, C. Staten Island	447	5,737	217	3	1,600	169	2,713	746	20	0	19	250
Pennsylvania State U., Harrisburg	448	5,735	16	0	1,801	20	0	867	648	0	877	1,506
Sacred Heart U.	449	5,698	328	149	769	145	117	205	551	0	62	3,372
U. North Carolina, Asheville	450	5,677	23	892	1,826	0	1,186	0	337	32	106	1,275
Dakota State U.	451	5,652	5,652	0	0	0	0	0	0	0	0	0
U. New Haven	452	5,640	811	555	1,137	7	148	176	1,901	0	684	221
High Tech High Graduate School of Ed.	453	5,585	0	0	0	0	0	0	0	0	0	5,585
Hope C.	454	5,584	126	225	2,819	19	1,817	118	9	0	403	48

Table 15. Higher education R&D expenditures at institutions in the standard form survey population, ranked by all R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences		Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics		Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Southeastern Louisiana U.	455	5,577	170		0	3,471	71		837	240	8	0	81	699
Pomona C.	456	5,522	378		451	923	795		1,168	56	1,258	0	0	493
Southern U. and A&M C., Baton Rouge	457	5,483	254		0	809	184		955	0	159	0	3,122	0
U. Washington, Bothell	458	5,320	609		1,332	1,260	29		556	31	0	0	198	1,305
Reed C.	459	5,154	9		0	1,332	323		1,184	276	502	0	0	1,528
Rhode Island School of Design	460	5,130	8		35	285	0		0	0	2,989	0	1,013	800
Coastal Carolina U.	461	5,094	285		2,828	339	0		264	1	252	0	393	732
Trinity C., Hartford	462	5,074	177		0	1,079	301		412	307	859	0	121	1,818
Austin Peay State U.	463	5,070	0		670	3,619	2		167	71	10	0	3	528
National U.	464	5,022	102		0	95	0		0	763	10	0	0	4,052
Carleton C.	465	4,993	372	i	2,036	i 326	i 328	i	447	i 351	i 614	i 0	i 1	i 518
Toyota Technological Institute, Chicago	466	4,982	4,982		0	0	0		0	0	0	0	0	0
Citadel Military C. South Carolina	467	4,969	2,826		9	66	13		143	32	20	0	488	1,372
St. John's U., New York	468	4,947	86		0	3,356	0		380	794	57	0	0	274
Sonoma State U.	469	4,928	0		2,908	762	428		8	146	224	171	74	207
Suffolk U.	470	4,890	0		20	14	0		26	1,065	1,048	0	0	2,717
Franklin and Marshall C.	471	4,815	88		791	625	82		1,183	166	426	260	0	1,194
Claremont Graduate U.	472	4,808	10		0	33	179		0	201	2,228	0	0	2,157
Colgate U.	473	4,730	134		980	954	224		819	252	424	0	0	943
Seattle U.	474	4,699	205		0	831	299		222	106	980	0	332	1,724
U. Wisconsin-Stevens Point	475	4,691	0		600	3,846	0		165	0	8	4	51	17
Bentley U.	476	4,639	307		159	1,406	239		0	1	491	110	151	1,775
Fort Lewis C.	477	4,582	10		53	1,285	47		681	3	0	716	475	1,312
U. Detroit Mercy	478	4,550	458		0	3,232	0		31	13	0	0	682	134
Spelman C.	479	4,537	65		473	616	630		823	1,064	355	256	0	255
Davidson C.	480	4,525	28		0	1,580	145		940	185	688	0	0	959
Colby C.	481	4,513	217		198	2,733	156		469	60	276	0	0	404
Stephen F. Austin State U.	482	4,502	12		258	2,811	206		95	1	95	0	0	1,024
U. Central Oklahoma	483	4,495	243		0	1,309	29		13	36	4	1,111	50	1,700
St. Cloud State U.	484	4,416	0		52	404	1		29	0	1,310	0	42	2,578
U. Northern Iowa	485	4,409	40		22	452	4		1,009	0	2,638	1	0	243
Monmouth U.	486	4,340	35		4,027	166	0		6	0	17	0	0	89
St. John Fisher U.	487	4,190	0		0	1,525	56		210	211	364	0	0	1,824
Albany State U.	488	4,163	43		10	411	16		220	0	275	219	2,953	16
Western Illinois U.	489	4,142	i 0	i	0	i 2,747	i 0	i	115	i 0	i 226	i 0	i 781	i 273

Table 15. Higher education R&D expenditures at institutions in the standard form survey population, ranked by all R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

					Geosciences, atmospheric sciences, and																		
Institution	Rank	All R&D expenditures	Computer and information sciences		ocean sciences	Life sciences	Mathematics and statistics		Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields									
Haverford C.	490	4,103	147	i	178	i	1,516	i	128	i	808	i	276	i	291	i	0	i	0	i	759	i	
New Mexico Highlands U.	491	4,074	690		0		2,002		0		305		97		0		0		1		979		
National Louis U.	492	3,993	0		0		0		0		0		237		0		0		0		3,756		
Keck Graduate Institute	493	3,972	0		0		3,834		0		0		0		0		0		138		0		
Fayetteville State U.	494	3,942	1,117		0		1,336		0		1,017		200		136		0		0		136		
East Stroudsburg U. Pennsylvania	495	3,916	9		0		2,640		0		0		0		0		0		0		1,267		
Alabama State U.	496	3,901	0		0		3,548		353		0		0		0		0		0		0		
Harvey Mudd C.	497	3,900	587		0		340		320		993		0		0		232		1,338		90		
Whitman C.	498	3,891	208		325		519		2		853		152		607		0		0		1,225		
Des Moines U.	499	3,889	0		6		3,609		0		17		0		134		0		5		118		
Lake Superior State U.	500	3,876	0		0		3,255		0		610		0		0		0		11		0		
California State U., Channel Islands	501	3,860	160		58		1,812		555		126		61		159		574		3		352		
U. Nebraska, Kearney	502	3,796	147		0		1,492		20		1,262		45		90		0		0		740		
Purdue U., Fort Wayne	503	3,791	0		0		669		361		183		3		297		1		1,017		1,260		
Hawaii Pacific U.	504	3,784	216		2,527		800		0		189		0		0		0		47		5		
U. Central del Caribe	505	3,780	0		0		3,780		0		0		0		0		0		0		0		
SUNY, C. of Optometry	506	3,776	0		0		3,776		0		0		0		0		0		0		0		
Vassar C.	507	3,775	10		78		968		325		627		320		275		885		0		287		
Christopher Newport U.	508	3,764	0		0		588		244		1,471		139		221		0		628		473		
Bowie State U.	509	3,731	1,405		0		1,941		74		0		0		309		0		0		2		
U. Wisconsin-Eau Claire	510	3,730	29		393		655		105		1,401		450		179		318		24		176		
Roger Williams U.	511	3,679	0		655		1,386		1		196		52		49		49		367		924		
Hamilton C.	512	3,664	68		230		101		2		560		38		508		0		0		2,157		
U. Texas, Tyler	513	3,632	0		42		1,183		130		154		247		220		205		887		564		
Murray State U.	514	3,630	0		346		2,885		148		240		2		0		0		0		9		
New England C. of Optometry	515	3,602	0		0		1,965		0		0		0		0		0		0		1,637		
U. of the Incarnate Word	516	3,580	27		13		1,546		34		365		0		0		0		88		1,507		
Middlebury C.	517	3,576	74		858		869		63		797		166		223		0		0		526		
Saginaw Valley State U.	518	3,552	i	325	i	0	i	2,288	i	0	i	0	i	1	i	251	i	1	i	0	i	686	i
Winthrop U.	519	3,466	104		0		230		6		534		1		117		0		0		2,474		
Tougaloo C.	520	3,462	112		202		2,244		0		685		0		219		0		0		0		
National Defense U.	521	3,459	59		0		500		0		0		0		2,900		0		0		0		
U. Wisconsin-Oshkosh	522	3,443	1		69		1,456		3		147		10		249		0		565		943		
Fisk U.	523	3,425	942		0		946		52		1,141		0		0		0		0		344		
Bowdoin C.	524	3,406	85		303		1,051		39		800		135		209		0		0		784		

Table 15. Higher education R&D expenditures at institutions in the standard form survey population, ranked by all R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences		Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Azusa Pacific U.	525	3,401	1		0	946	160	206	695	120	0	84	1,189
Pace U.	526	3,348	1,101		0	683	11	78	97	45	117	498	718
Troy U.	527	3,318	0		280	228	0	2,076	19	141	0	38	536
Dillard U.	528	3,317	100		50	1,568	93	406	111	17	160	101	711
Northern Kentucky U.	529	3,271	55		0	1,467	190	382	960	99	26	0	92
SUNY, Oswego	530	3,242	135		874	752	27	461	449	22	11	192	319
Minnesota State U., Mankato	531	3,235	18		265	736	34	22	97	444	0	1,380	239
Furman U.	532	3,231	20		42	613	37	1,356	49	148	406	0	560
U. Central Arkansas	533	3,142	8		98	1,518	3	445	1	0	0	74	995
Milwaukee School of Engineering	534	3,090	63		0	0	0	0	0	0	0	3,019	8
U. Houston-Clear Lake	535	3,080	13		908	734	5	73	85	50	151	423	638
U. Wisconsin-La Crosse	536	3,068	37		29	989	7	353	13	1,353	11	0	276
U. Houston-Downtown	537	3,049	136		0	146	52	220	0	430	809	81	1,175
CUNY, New York City C. of Technology	538	3,033	150		23	314	269	1,049	0	23	0	762	443
Elon U.	539	2,997	56		0	520	104	139	243	339	46	53	1,497
U. of Health Sciences and Pharmacy in St. Louis	540	2,976	0		0	2,952	0	24	0	0	0	0	0
U. Richmond	541	2,961	6		22	956	113	577	249	111	0	0	927
Eastern Washington U.	542	2,957	0		664	592	0	113	8	1,397	0	170	13
U. Louisiana, Monroe	543	2,940	0		941	1,586	0	245	0	160	0	0	8
Lewis and Clark C.	544	2,924	14		188	760	43	265	6	191	0	0	1,457
C. New Jersey	545	2,857	69		0	714	4	623	61	130	441	729	86
Merrimack C.	546	2,852	131		0	1,999	48	481	10	55	15	39	74
U. Wisconsin-River Falls	547	2,847	0		107	2,458	0	90	0	0	0	5	187
Northeastern Illinois U.	548	2,844	486		16	1,526	133	0	0	0	0	0	683
U. South Carolina Upstate	549	2,764	82		0	833	0	0	30	36	1	641	1,141
Skidmore C.	550	2,759	19		616	916	42	448	335	184	0	0	199
Central Washington U.	551	2,757	111		1,621	448	160	79	4	219	0	6	109
Marymount U.	552	2,749	512		0	850	40	21	57	136	0	257	876
CUNY, system office	553	2,723	0		0	123	0	0	0	0	380	0	2,220
Chicago State U.	554	2,701	194		0	1,571	0	886	0	50	0	0	0
Youngstown State U.	555	2,691	131		0	240	131	115	92	51	0	1,924	7
La Sierra U.	556	2,688	i 0	i	0	i 9	i 0	i 0	i 88	i 0	i 0	i 0	i 2,591
Lafayette C.	557	2,684	203		155	309	130	415	185	256	0	688	343
U. Texas of the Permian Basin	558	2,682	0		156	623	0	65	10	239	271	292	1,026
Black Hills State U.	559	2,646	263		0	1,594	0	200	1	0	0	0	588

Table 15. Higher education R&D expenditures at institutions in the standard form survey population, ranked by all R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Wisconsin-Green Bay	560	2,637	82	i 117 i	1,444	i 22 i	160	i 43 i	97	i 0 i	467	i 205 i
Pittsburg State U.	561	2,577	0	0	224	0	20	0	0	0	2,333	0
U. Illinois, Springfield	562	2,552	52	0	33	0	0	12	437	1	0	2,017
Virginia Military Institute	563	2,506	2,110	0	70	29	109	21	30	0	81	56
Calvin U.	564	2,490	80	7	445	56	354	25	96	0	99	1,328
SUNY, Buffalo State U.	565	2,453	38	1,192	947	19	106	22	129	0	0	0
California State U., Stanislaus	566	2,440	274	0	496	101	330	273	380	281	0	305
Seattle Pacific U.	567	2,414	0	0	272	0	630	77	9	0	9	1,417
U. Alaska, Southeast	568	2,398	0	761	678	0	278	0	141	391	41	108
Florida Polytechnic U.	569	2,391	1,051	0	286	92	174	0	0	0	773	15
John Carroll U.	570	2,378	0	0	393	0	58	570	130	0	0	1,227
Savannah State U.	571	2,376	43	841	396	0	0	0	18	460	610	8
Mount Holyoke C.	572	2,372	191	2	625	13	626	322	250	0	0	343
U. of the Pacific	573	2,362	110	150	1,910	0	178	0	0	0	10	4
Touro U., California	574	2,356	0	0	2,356	0	0	0	0	0	0	0
Western Carolina U.	575	2,333	0	426	557	53	218	0	182	0	478	419
Morehead State U.	576	2,295	0	0	566	0	0	133	2	0	1,593	1
Union C., Schenectady	577	2,263	32	610	104	58	506	42	158	3	576	174
Utah Valley U.	578	2,254	59	145	458	35	500	0	9	269	764	15
Stockton U.	579	2,253	0	962	481	37	91	0	610	0	0	72
Manhattan C.	580	2,184	0	0	166	181	0	0	269	0	750	818
Colorado C.	581	2,178	82	141	283	81	361	82	597	0	0	551
U. Puerto Rico, Cayey	582	2,173	0	16	150	0	963	0	246	798	0	0
Alaska Pacific U.	583	2,168	0	2,044	22	0	0	0	0	0	0	102
Bates C.	584	2,066	513	124	702	28	307	51	118	0	0	223
Ferris State U.	585	2,046	0	0	1,145	127	131	0	0	0	579	64
U. Michigan, Flint	586	2,023	480	0	301	0	47	3	3	1	142	1,046
Lipscomb U.	587	2,011	0	0	623	0	1	6	0	0	113	1,268
Nevada State U.	588	1,989	0	0	1,015	0	0	377	0	0	0	597
Hobart and William Smith Colleges	589	1,984	38	389	453	22	505	46	156	49	0	326
Macalester C.	590	1,948	214	262	292	75	592	53	180	0	0	280
U. Hartford	591	1,944	0	0	425	54	32	15	280	0	1,095	43
SUNY, C. Brockport	592	1,932	9	40	1,298	4	117	36	415	0	0	13
U. Puerto Rico, Humacao	592	1,932	0	135	69	0	1,728	0	0	0	0	0
Northern Michigan U.	594	1,931	6	220	842	70	111	279	7	0	45	351

Table 15. Higher education R&D expenditures at institutions in the standard form survey population, ranked by all R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences		Geosciences, atmospheric sciences, and ocean sciences	Life sciences		Mathematics and statistics		Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Oberlin C.	595	1,926		213	51		823		52	522	83	40	0	0	142
Southern Utah U.	596	1,897		39	1,017		202		0	135	0	294	36	90	84
Erikson Institute	597	1,889		0	0		0		0	0	0	0	0	0	1,889
Heidelberg U.	598	1,876		0	1,876		0		0	0	0	0	0	0	0
Norwich U.	599	1,875		0	130		1,212		0	55	401	50	11	0	16
Colorado State U., Pueblo	600	1,835	i	179	0	i	1,575	i	0	0	0	72	0	9	0
SUNY, Geneseo	601	1,820		0	24		269		4	984	107	42	0	0	390
Franklin W. Olin C. of Engineering	602	1,819		0	0		0		0	0	0	0	0	1,637	182
Claflin U.	603	1,816		118	65		999		0	548	0	54	0	32	0
U. North Georgia	604	1,805		41	278		124		27	233	2	179	0	18	903
United Tribes Technical C.	605	1,800		19	575		660		0	40	0	227	0	106	173
Babson C.	606	1,783		0	0	i	0	i	45	0	0	388	0	0	1,350
Biola U.	607	1,761		0	0		146		0	0	1,108	0	0	0	507
Lincoln Memorial U.	608	1,756		0	0		1,609		0	0	0	0	0	0	147
Andrews U.	609	1,751		1	7		58		5	647	2	336	0	8	687
Dickinson C.	610	1,743		77	511		329		7	12	26	510	0	0	271
Pratt Institute	611	1,709	i	0	0	i	0	i	0	0	0	0	0	0	1,709
Arcadia U.	612	1,692		0	0		66		0	0	0	0	0	0	1,626
U. Ana G. Mendez, Gurabo	613	1,660		0	0		0		0	0	0	0	0	0	1,660
Saint John's U.	614	1,623	i	51	0	i	571	i	28	185	66	235	0	0	487
U. South Carolina, Aiken	615	1,609		252	0		918		20	104	45	25	43	0	202
Hartford International U. for Religion and Peace	616	1,599	i	0	0	i	0	i	0	0	0	0	0	0	1,599
Liberty U.	617	1,597		209	0		590		1	0	36	49	0	522	190
Pennsylvania State U., Altoona	618	1,572		0	0		513		26	126	0	0	0	861	46
St. Edward's U.	619	1,570		114	53		406		59	181	73	233	0	117	334
Eckerd C.	620	1,558		0	771		163		0	457	0	87	0	0	80
C. of Saint Benedict	621	1,536	i	50	0	i	551	i	28	180	63	215	0	0	449
U. Hawaii, Maui C.	622	1,518		107	313		766		0	0	0	0	0	0	332
CUNY, York C.	623	1,515		110	315		304		329	381	25	0	0	0	51
St. Olaf C.	624	1,500		35	133		897		33	229	52	52	0	0	69
West Virginia School of Osteopathic Medicine	625	1,491		0	0		1,491		0	0	0	0	0	0	0
Drake U.	626	1,485		6	0		347		64	136	25	56	0	0	851
Willamette U.	627	1,470		56	307		282		0	31	77	2	75	0	640
Kenyon C.	628	1,466		0	0		658		84	605	26	34	0	0	59
National U. of Natural Medicine	628	1,466	i	0	0	i	1,466	i	0	0	0	0	0	0	0

Table 15. Higher education R&D expenditures at institutions in the standard form survey population, ranked by all R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences		Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics		Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
SUNY, C. Plattsburgh	630	1,465	0		1,111	0	0		298	0	56	0	0	0
U. Virginia's C. Wise	631	1,464	1,059		52	262	0		15	0	9	3	0	64
New C. Florida	632	1,459	133		964	6	42		64	5	157	0	0	88
Wheaton C., Wheaton	633	1,445	0		26	170	7		249	419	372	0	0	202
Eastern Kentucky U.	634	1,435	0		0	690	0		387	0	1	0	112	245
U. Scranton	634	1,435	3		654	224	21		330	2	13	0	1	187
Eastern Connecticut State U.	636	1,420	22		166	271	63		5	152	108	0	0	633
Roosevelt U.	637	1,418	58		0	890	72		28	0	370	0	0	0
Robert Morris U.	638	1,412	260		0	45	10		3	20	19	0	581	474
U. North Carolina, general administration	639	1,403	0		0	0	0		0	0	0	0	700	703
Loyola U., Maryland	640	1,362	0		0	182	0		120	158	57	0	0	845
U. of Mary Washington	641	1,333	264		5	290	7		4	33	15	0	0	715
Butler U.	642	1,313	34		0	877	5		237	22	68	0	0	70
C. Wooster	643	1,296	255		120	137	48		302	38	195	0	0	201
Radford U.	644	1,291	131		47	323	11		29	143	87	116	0	404
Midwestern State U.	645	1,261	0		97	722	0		119	0	1	0	78	244
U. Puget Sound	646	1,248	0		242	488	0		440	2	17	0	0	59
SUNY, Polytechnic Institute	647	1,234	55		0	316	0		26	0	0	0	612	225
Weber State U.	648	1,217	75		293	90	80		50	0	0	0	449	180
California Lutheran U.	649	1,201	48		107	315	48		127	15	294	0	0	247
Western New England U.	649	1,201	i 82	i	0	i 342	i 38	i 0	i 0	i 0	i 0	i 0	i 739	i 0
U. South Carolina, Beaufort	651	1,177	30		2	397	0		0	0	207	0	0	541
Illinois C. of Optometry	652	1,158	0		0	1,158	0		0	0	0	0	0	0
Juniata C.	653	1,155	0		159	803	0		120	0	35	0	0	38
Gettysburg C.	654	1,154	6		0	230	19		297	22	418	0	0	162
SUNY, Cobleskill	655	1,149	0		0	293	0		0	0	0	0	856	0
Indiana State U.	656	1,138	0		72	504	0		5	0	0	0	58	499
Nicholls State U.	657	1,120	0		96	744	1		267	0	12	0	0	0
Albany C. of Pharmacy and Health Sciences	658	1,113	0		0	1,004	0		0	0	0	0	0	109
Denison U.	659	1,110	i 42	i	72	i 462	i 30	i 170	i 45	i 86	i 0	i 0	i 0	i 203
Connecticut C.	660	1,096	183		0	350	0		253	138	116	7	0	49
Elizabeth City State U.	661	1,078	307		0	488	0		0	0	129	0	0	154
Indiana U., South Bend	662	1,071	127		0	102	0		273	69	79	200	0	221
Aaniih Nakoda C.	663	1,045	0		413	632	0		0	0	0	0	0	0
Southern Oregon U.	664	1,023	26	i	0	i 0	i 0	i 231	i 2	i 764	i 0	i 0	i 0	i 0



Table 15. Higher education R&D expenditures at institutions in the standard form survey population, ranked by all R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Ursinus C.	665	1,015	22	0	706	34	252	1	0	0	0	0
St. Bonaventure U.	666	1,003	223	0	361	0	117	0	0	0	0	302
High Point U.	667	1,000	i 37	i 0	i 643	i 14	i 65	i 12	i 33	i 0	i 138	i 58
Johnson C. Smith U.	668	936	350	103	115	0	107	0	12	0	0	249
Plymouth State U.	669	934	0	195	457	0	0	0	241	0	0	41
U. Minnesota, Rochester	670	921	0	0	846	0	0	0	0	0	0	75
Valparaiso U.	671	918	0	36	251	0	545	0	0	0	79	7
U. North Texas, Dallas	672	911	0	0	0	0	0	38	592	0	0	281
Keene State C.	673	844	50	0	457	27	127	15	7	0	0	161
St. Catherine U.	674	824	0	0	611	0	69	0	144	0	0	0
Northwestern State U. Louisiana	675	798	0	13	0	0	0	0	0	785	0	0
Polytechnic U. Puerto Rico	676	796	796	0	0	0	0	0	0	0	0	0
Auburn U., Montgomery	677	779	38	0	179	85	11	0	33	3	0	430
Palmer C. of Chiropractic, Davenport	678	750	0	0	750	0	0	0	0	0	0	0
Berry C.	679	670	0	0	30	267	7	0	325	0	0	41
Bryant U.	680	459	3	51	179	142	0	0	13	0	0	71
Carthage C.	681	188	0	59	0	0	32	52	0	0	28	17

i = imputed.

nec = not elsewhere classified; S&E = science and engineering.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$2,549,821 thousand in total R&D expenditures in FY 2024.

<sup>b</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>c</sup> The University of Oklahoma includes expenditures from the University of Oklahoma, Tulsa and University of Oklahoma, Norman and Health Science Center campuses. Due to a reorganization, the campuses began reporting as one unit in FY 2024.

**Note(s):**  
Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 5](#). This table includes only institutions reporting \$1 million or more in total R&D expenditures in 2023. Institutions reporting less than \$1 million in total R&D expenditures in 2023 completed a shorter version of the survey form in FY 2024, and that form did not collect R&D expenditures by source and detailed field.

**Source(s):**  
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2024.

Table 16. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by FY 2024 R&D expenditures: FYs 2010–24

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
All institutions	-	37,477,582	40,768,251	40,141,676	39,445,414	37,961,118	37,846,365	38,787,982	40,247,588	41,859,934	44,460,361	46,108,772	49,121,155	53,974,981	59,610,006	64,639,941
Johns Hopkins U. <sup>a</sup>	1	1,737,261	1,884,025	1,857,580	1,898,927	1,950,016	1,992,837	2,104,653	2,178,605	2,251,097	2,482,130	2,682,410	2,774,643	2,971,816	3,324,551	3,618,064
Georgia Institute of Technology	2	372,122	427,867	484,212	522,134	512,015	551,084	568,430	584,891	654,877	716,207	790,518	852,319	940,488	1,083,903	1,213,430
U. Michigan, Ann Arbor	3	747,778	820,125	791,729	814,167	742,160	735,447	786,749	829,695	849,123	886,851	884,880	891,125	970,636	1,041,430	1,165,494
U. California, San Diego	4	580,279	636,879	656,891	632,593	599,095	603,343	604,298	641,469	635,888	698,925	727,289	801,117	970,696	1,083,790	1,151,518
U. Washington, Seattle	5	829,885	948,976	909,652	928,193	909,034	906,768	946,787	952,738	989,221	992,643	1,024,195	1,046,377	1,083,090	1,188,836	1,135,734
Columbia U. in the City of New York	6	572,213	645,233	645,573	635,987	608,588	592,545	600,457	647,840	686,338	736,536	762,289	831,648	904,346	988,670	1,076,805
Duke U.	7	514,084	585,262	587,268	581,695	557,969	559,217	575,521	623,573	645,259	709,705	707,746	776,632	901,807	974,202	1,039,631
U. California, San Francisco	8	514,693	570,116	559,329	566,117	544,697	535,457	602,705	606,768	669,470	671,047	676,331	683,179	780,318	858,066	1,036,633
U. Pennsylvania	9	642,180	707,051	669,970	636,589	620,396	611,620	655,791	669,911	688,313	717,359	721,308	792,089	873,318	936,469	1,018,602
Stanford U.	10	593,016	656,114	636,348	652,472	637,730	675,930	694,693	710,698	711,443	738,957	751,414	811,183	860,125	943,669	1,012,767
U. California, Los Angeles	11	538,521	563,560	539,054	501,368	465,170	489,404	487,869	487,846	576,076	600,714	655,030	721,043	848,138	878,571	980,183
U. Pittsburgh, Pittsburgh	12	594,675	662,471	637,857	622,232	582,136	561,210	580,650	617,884	649,166	677,559	689,273	724,993	814,647	916,735	967,978
U. North Carolina, Chapel Hill	13	545,993	600,843	606,348	623,237	610,664	585,758	632,426	676,282	701,169	720,613	706,145	747,895	827,158	907,710	949,913
U. Wisconsin-Madison	14	545,189	593,633	580,661	555,875	548,388	533,286	567,132	570,796	574,048	608,925	632,558	646,764	740,854	816,814	930,647
U. Maryland <sup>b</sup>	15	na	na	na	na	na	na	na	na	na	696,880	689,125	713,283	750,447	825,546	922,237
Pennsylvania State U., University Park and Hershey Medical Center	16	464,750	468,705	531,421	558,871	520,574	513,410	538,938	538,164	565,348	600,489	638,930	622,532	681,159	781,303	858,666
Yale U.	17	475,794	519,844	518,184	503,227	480,384	477,143	503,221	541,608	552,242	576,776	585,170	647,656	689,270	741,198	845,058
Washington U., Saint Louis	18	468,642	469,490	441,406	411,299	419,122	432,228	442,335	474,446	506,006	543,508	559,882	606,127	681,353	758,464	821,852
Vanderbilt U. and Vanderbilt U. Medical Center	19	397,656	458,173	448,948	445,044	422,448	401,738	405,589	452,885	471,625	492,808	514,299	586,880	666,282	751,019	809,693
New York U.	20	260,463	302,221	316,208	300,730	330,484	344,570	350,355	391,144	416,143	436,850	448,850	547,027	668,381	787,204	805,148
Cornell U.	21	448,085	476,583	472,673	445,116	439,770	446,360	430,987	438,182	470,020	525,182	562,021	592,359	636,481	705,132	792,078
Ohio State U.	22	399,942	493,130	445,635	456,590	454,484	446,048	454,834	464,311	474,994	497,651	539,359	559,797	636,902	694,647	774,210
U. Minnesota, Twin Cities	23	426,359	489,480	485,462	494,206	489,767	476,029	469,260	456,443	464,300	494,549	514,092	570,946	652,384	702,483	748,229
Emory U.	24	336,986	369,982	361,165	365,121	330,378	348,071	361,288	382,177	393,647	424,461	452,636	515,940	568,149	664,370	744,597
U. Southern California	25	408,564	453,283	443,842	437,813	431,430	421,227	409,516	450,204	501,893	543,607	562,120	574,185	601,747	683,819	739,426
Northwestern U.	26	360,980	399,719	393,074	396,138	391,946	393,186	432,413	446,609	469,525	502,300	531,654	572,975	618,771	678,062	735,735
Icahn School of Medicine at Mount Sinai	27	302,770	296,835	271,722	277,517	300,667	329,641	342,104	367,522	398,656	443,745	480,452	554,582	610,646	658,916	693,444
U. Texas, Austin	28	350,308	355,437	354,873	372,633	332,758	346,215	357,309	396,447	405,131	407,981	500,409	489,827	536,296	621,223	690,835
Harvard U.	29	474,899	543,097	589,860	594,392	572,918	545,202	558,611	573,157	587,584	618,405	605,603	616,589	628,683	639,953	672,947
Massachusetts Institute of Technology	30	457,575	489,080	496,132	490,809	483,891	488,421	503,858	487,434	479,654	489,345	488,741	483,526	531,056	559,766	595,053
Texas A&M U., College Station and Health Science Center	31	288,173	291,812	269,460	314,104	311,920	304,437	293,551	307,656	333,768	359,609	517,489	528,057	505,355	546,481	582,674
U. Florida	32	279,649	306,349	305,067	296,199	289,327	287,230	307,140	327,288	355,517	387,906	397,202	423,154	467,739	529,391	581,252
U. Colorado Boulder	33	292,030	323,078	330,089	319,869	314,890	353,341	371,995	374,209	391,817	412,691	427,869	459,816	507,892	538,715	567,693
U. California, Berkeley	34	312,789	336,191	338,759	311,809	313,390	346,262	341,807	330,339	329,464	347,601	349,989	354,478	468,542	496,298	518,011
U. Illinois, Urbana-Champaign	35	303,852	323,454	359,989	468,798	343,275	338,178	335,056	358,905	353,710	382,206	387,853	406,612	420,953	460,491	511,574

Table 16. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by FY 2024 R&D expenditures: FYs 2010–24

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
U. California, Davis	36	332,325	362,976	358,577	347,038	330,367	326,039	339,209	342,407	360,018	374,707	380,965	373,719	468,468	494,847	505,442
U. Chicago	37	352,728	372,288	336,125	300,718	281,464	294,437	297,953	308,002	303,175	332,776	352,447	394,275	456,806	476,689	504,337
U. Colorado Anschutz Medical Campus <sup>c</sup>	38	na	na	na	na	na	na	na	na	na	na	na	363,999	429,949	474,523	498,397
U. Alabama, Birmingham	39	325,103	344,164	306,210	290,082	280,333	328,531	348,632	358,916	373,360	398,403	400,110	423,290	421,223	451,880	498,148
Uniformed Services U. of the Health Sciences	40	72,125	117,781	102,134	119,647	213,389	299,007	175,007	204,241	218,702	297,808	235,202	275,573	194,187	403,671	482,223
Michigan State U.	41	214,134	240,837	268,952	260,610	261,826	272,838	310,225	343,751	328,618	331,148	329,748	349,889	381,504	435,564	474,762
U. Arizona	42	308,157	327,565	331,578	338,790	290,370	269,959	262,989	273,567	291,767	327,025	328,807	353,117	374,936	434,700	471,394
Case Western Reserve U.	43	333,689	353,470	359,000	349,487	329,320	308,434	321,214	326,643	349,177	357,549	357,589	340,438	380,423	431,736	466,362
Indiana U., Bloomington	44	71,208	74,143	79,727	85,852	84,592	210,899	221,801	245,155	249,243	308,586	319,039	326,326	360,300	432,223	456,845
Baylor C. of Medicine	45	284,072	295,529	268,753	285,230	264,641	256,895	267,849	292,806	300,098	309,354	315,101	365,472	420,054	440,345	453,738
U. Utah	46	227,021	264,234	273,150	301,045	288,514	274,375	233,652	248,908	307,844	302,585	314,023	340,434	367,040	416,079	453,025
Purdue U., West Lafayette	47	232,564	259,948	270,655	271,504	236,860	217,330	229,093	245,110	251,517	249,831	270,605	295,278	352,890	385,738	451,802
Boston U.	48	302,411	305,476	275,319	267,194	257,017	259,736	253,475	259,832	284,888	318,511	339,172	402,443	413,102	409,551	421,753
U. Cincinnati	49	262,513	287,182	267,691	258,460	245,086	251,717	231,817	242,237	250,202	252,892	285,899	309,097	350,392	391,943	411,205
Rutgers, State U. New Jersey, New Brunswick	50	224,894	239,908	279,161	295,028	360,157	323,675	321,432	340,801	350,912	297,609	311,743	339,015	351,660	400,930	408,320
Arizona State U.	51	172,202	185,766	194,376	201,363	196,270	196,528	212,396	227,621	254,384	267,087	278,150	274,541	309,094	340,880	396,431
U. Virginia, Charlottesville	52	228,917	252,928	240,254	225,567	205,865	203,401	210,980	228,910	250,168	276,335	300,348	297,273	332,993	354,748	394,731
Oregon Health and Science U.	53	247,054	268,777	242,337	246,491	247,740	245,509	232,688	245,199	264,492	298,227	321,572	329,016	346,724	374,043	389,585
U. California, Irvine	54	194,559	209,117	206,985	198,730	182,585	174,875	177,779	187,535	201,173	217,094	241,734	255,010	291,393	335,393	384,504
U. Rochester	55	322,048	337,907	308,115	299,553	266,767	262,681	266,322	267,860	285,330	306,551	296,241	309,647	334,503	368,190	376,088
Utah State U.	56	90,581	113,871	108,501	106,985	114,959	120,369	125,661	138,518	159,447	220,504	242,156	264,575	280,866	322,336	364,880
U. Texas Southwestern Medical Center	57	232,027	231,639	207,513	198,114	185,137	183,787	185,263	200,085	197,910	203,544	242,679	257,611	298,154	336,126	359,693
U. Iowa	58	282,465	283,627	269,734	255,329	235,527	225,587	237,743	238,842	246,117	252,563	259,639	283,763	314,346	331,824	338,639
U. Miami	59	197,824	225,352	224,172	205,870	203,751	193,606	195,328	194,385	192,598	212,023	224,184	231,001	265,212	291,783	322,331
North Carolina State U.	60	139,096	155,293	174,758	177,118	181,449	199,862	202,336	218,274	219,258	228,945	232,110	239,115	250,582	279,179	316,076
Virginia Polytechnic Institute and State U.	61	162,566	189,198	184,175	201,646	204,308	196,096	195,859	186,054	199,897	209,607	210,792	216,733	240,305	282,152	308,282
U. Nebraska, Lincoln and Medical Center <sup>d</sup>	62	na	na	na	na	na	na	na	na	na	na	na	na	na	280,120	301,070
Colorado State U., Fort Collins	63	211,297	236,566	252,286	219,856	212,054	219,321	232,108	239,165	268,747	284,482	287,100	303,901	316,727	354,401	300,857
U. Illinois, Chicago	64	232,380	248,936	246,128	222,566	203,733	196,010	187,990	198,049	196,840	208,603	223,030	237,949	251,328	274,424	299,986
California Institute of Technology	65	328,522	342,945	326,701	282,823	279,515	272,673	265,206	277,358	280,451	287,198	316,519	293,197	326,401	310,519	298,754
SUNY, U. Buffalo	66	167,099	182,585	193,613	204,995	189,209	177,441	182,883	186,836	186,494	182,983	200,155	210,257	218,231	257,857	284,562
U. Texas M. D. Anderson Cancer Center	67	206,664	236,400	196,753	182,971	158,986	161,171	155,044	166,552	173,206	176,156	186,488	217,073	225,659	259,285	282,431
Carnegie Mellon U.	68	179,386	200,967	209,522	215,560	198,247	187,259	190,620	189,974	181,958	197,978	217,625	234,993	259,160	279,954	280,169
U. Kentucky	69	171,528	179,161	159,678	150,468	142,312	146,548	154,559	171,323	171,672	192,945	200,664	220,703	253,852	265,543	273,724
U. South Florida <sup>e</sup>	70	243,017	243,030	236,148	225,414	222,790	218,338	228,365	250,384	179,024	181,882	158,958	185,364	206,552	242,224	272,483
Scripps Research Institute	71	313,746	317,201	309,471	308,628	292,268	274,097	242,489	250,090	267,088	267,122	243,502	272,181	242,135	278,099	272,039
U. Georgia	72	119,486	137,255	137,710	131,824	126,164	132,118	143,886	158,229	148,543	159,948	171,351	188,451	220,343	221,804	255,117
Brown U.	73	127,087	128,628	131,994	126,559	129,248	132,142	136,931	145,556	164,452	178,460	185,676	198,574	215,067	239,744	253,661

Table 16. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by FY 2024 R&D expenditures: FYs 2010–24

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
U. Connecticut	74	132,169	144,280	153,264	148,651	144,104	137,980	146,390	145,637	144,048	159,220	164,848	183,362	230,752	238,701	253,110
Princeton U.	75	150,261	163,438	161,591	156,541	164,277	158,313	162,003	176,029	180,305	193,453	203,259	205,000	218,390	219,600	250,294
Woods Hole Oceanographic Institution	76	153,066	165,819	161,115	158,672	177,616	172,995	166,010	148,491	163,003	184,995	191,186	222,351	211,550	238,554	250,140
U. Kansas	77	147,598	162,721	171,043	174,021	165,442	155,835	140,002	148,178	155,147	169,694	185,007	187,249	200,117	211,111	245,710
Oregon State U.	78	135,886	146,882	156,446	149,396	145,247	153,017	158,142	163,479	171,805	168,571	167,494	179,180	192,621	222,169	244,264
Albert Einstein C. of Medicine	79	na	na	na	na	na	na	188,521	188,259	196,457	202,513	204,635	214,619	220,780	230,151	242,594
U. Missouri, Columbia	80	116,965	116,403	114,345	111,510	104,910	105,015	126,071	134,525	138,029	139,781	156,190	163,576	182,432	217,091	241,938
U. Dayton	81	73,540	70,996	65,169	67,698	66,318	77,973	100,955	118,452	132,358	153,328	154,101	181,445	203,206	216,729	241,753
U. Hawaii, Manoa	82	196,275	201,700	193,722	225,359	206,810	200,202	190,336	182,337	167,030	167,816	163,694	157,772	169,762	192,205	237,482
U. Massachusetts, Medical School	83	178,293	208,244	202,149	189,159	183,582	183,588	181,446	200,232	194,953	197,388	192,938	248,873	258,147	223,490	231,375
U. Delaware	84	105,454	118,673	117,072	119,756	116,340	114,245	113,217	117,813	118,573	133,020	144,142	157,725	194,775	202,469	229,392
U. Texas Health Science Center, Houston	85	150,324	156,790	146,424	144,235	136,145	125,890	121,098	124,461	128,232	132,647	133,624	165,139	184,205	197,759	227,118
U. Oklahoma <sup>f</sup>	86	105,366	118,970	133,841	132,456	118,925	127,709	134,772	133,177	149,317	164,855	183,728	193,639	210,994	219,964	225,360
Wake Forest U.	87	159,084	173,130	172,779	156,506	153,069	148,451	141,052	148,001	154,363	165,702	166,596	188,887	180,754	204,713	224,282
U. New Mexico	88	148,216	162,854	160,895	158,057	153,889	154,794	159,280	165,128	169,952	159,940	161,627	242,212	232,774	205,351	221,867
Washington State U.	89	113,452	123,502	129,255	134,329	126,955	134,889	136,646	152,843	151,133	158,982	154,623	179,536	187,580	207,086	221,721
Northeastern U.	90	59,074	67,938	77,667	85,170	79,666	80,576	81,124	93,572	114,711	126,762	136,273	143,421	150,093	186,013	218,650
Iowa State U.	91	109,461	117,522	118,242	121,993	116,273	114,518	125,397	128,221	147,679	147,866	165,912	169,177	187,156	195,394	216,003
Virginia Commonwealth U.	92	144,138	153,228	142,053	135,804	138,559	142,447	143,701	147,585	140,363	142,293	152,751	160,995	169,450	184,852	208,743
Florida State U.	93	134,794	140,850	140,419	148,413	151,701	139,597	126,289	134,278	147,184	149,784	162,296	150,108	163,744	195,323	204,544
SUNY, Stony Brook U.	94	120,146	125,102	123,383	118,513	111,683	115,150	118,549	125,688	136,241	144,618	146,478	162,972	184,154	192,448	186,497
Dartmouth C. and Dartmouth Hitchcock Medical Center	95	118,271	131,583	147,421	155,209	145,498	146,233	139,090	137,448	140,399	137,965	142,219	152,335	155,445	168,740	185,769
Wichita State U.	96	13,751	20,569	19,078	13,434	10,424	7,728	10,442	21,685	18,706	29,634	53,540	77,427	93,367	142,371	182,881
U. Tennessee, Knoxville <sup>g</sup>	97	96,972	111,942	112,471	117,836	112,201	105,417	109,722	117,097	117,776	123,434	138,402	135,202	149,260	153,637	180,010
George Washington U.	98	122,357	116,611	112,110	120,857	141,552	139,016	142,889	148,369	156,768	155,697	157,533	161,349	161,867	162,892	179,220
Medical U. South Carolina	99	131,650	143,464	136,907	127,472	118,649	117,255	124,212	134,072	142,639	153,226	153,802	162,394	163,395	168,957	173,379
U. California, Santa Barbara	100	129,457	136,244	136,352	132,960	121,045	116,232	116,775	117,457	113,388	118,517	123,198	122,168	161,241	179,896	171,188
Tufts U.	101	116,699	122,208	121,512	113,450	116,204	121,428	126,109	139,532	139,334	146,630	148,320	166,809	150,081	154,458	169,588
U. Alaska, Fairbanks	102	99,657	105,469	99,674	94,953	85,904	81,586	89,940	97,314	94,998	92,964	101,414	128,229	154,742	156,702	168,918
U. Texas Health Science Center, San Antonio	103	121,723	121,200	106,177	99,198	89,303	85,940	89,742	85,455	86,956	96,502	102,959	106,824	119,071	143,730	165,935
Florida International U.	104	62,580	65,446	69,402	72,357	78,961	76,528	76,127	71,579	85,541	96,912	103,366	105,309	129,683	156,381	165,202
U. Texas Medical Branch	105	128,840	128,098	109,867	108,287	101,761	98,050	100,464	104,458	104,356	107,806	114,103	117,915	123,467	150,272	161,678
Clemson U.	106	62,934	52,919	51,764	52,002	49,887	53,136	60,165	70,256	73,735	81,080	82,203	89,883	119,512	129,955	161,658
Mississippi State U.	107	106,324	98,998	96,689	74,075	71,715	80,097	87,277	87,928	89,012	104,738	120,616	116,713	138,207	150,804	161,636
Tulane U.	108	106,872	111,007	101,360	97,994	94,486	84,166	89,087	93,970	102,201	104,219	107,290	113,819	127,544	152,468	159,185
Temple U.	109	79,939	89,719	90,243	131,872	126,803	129,499	140,775	153,404	155,312	161,673	154,600	153,316	143,580	154,516	159,138
Montana State U., Bozeman	110	93,100	87,528	86,511	73,619	72,777	69,136	68,471	74,788	75,524	88,955	93,759	113,257	118,974	142,965	158,999

Table 16. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by FY 2024 R&D expenditures: FYs 2010–24

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Auburn U., Auburn	111	53,971	59,559	55,557	57,253	50,088	48,352	54,751	55,700	58,488	64,333	73,468	91,157	104,883	125,783	157,999
U. New Hampshire	112	84,553	106,806	119,451	102,053	101,125	92,040	93,599	92,338	95,807	90,241	100,373	99,323	129,721	152,377	151,886
Wayne State U.	113	132,166	134,735	126,915	119,520	113,618	109,586	111,532	109,421	111,018	118,043	113,137	117,976	126,814	128,521	151,878
Medical C. Wisconsin	114	121,750	133,929	125,325	116,765	111,241	109,542	108,529	108,276	111,273	119,036	128,783	136,385	152,301	155,403	150,035
George Mason U.	115	63,011	65,301	63,786	65,096	61,877	63,600	58,864	57,345	69,481	96,307	104,070	103,712	119,406	125,437	147,327
U. Massachusetts, Amherst	116	97,937	107,683	115,280	111,448	110,189	103,417	106,269	108,871	110,654	117,359	116,170	116,349	129,044	138,849	146,876
Georgetown U.	117	120,589	123,540	115,197	114,760	100,475	88,015	83,827	94,435	89,977	94,050	98,682	130,419	127,213	127,370	145,787
U. South Carolina, Columbia	118	125,501	103,296	98,836	91,612	91,890	90,453	93,885	96,048	88,602	102,992	90,243	88,529	106,752	124,330	144,878
U. Notre Dame	119	62,152	79,716	83,295	79,564	79,690	83,710	87,129	91,787	96,182	106,411	104,030	109,891	124,411	147,985	144,327
Louisiana State U., Baton Rouge	120	97,407	97,517	92,551	94,563	94,701	83,644	86,754	81,644	84,309	88,721	87,895	103,178	111,886	127,243	142,226
U. Vermont	121	98,635	101,471	87,843	85,118	79,743	83,733	83,124	78,394	86,940	90,405	97,981	103,554	117,163	128,645	138,601
U. Central Florida	122	69,331	69,098	78,411	76,533	70,716	88,814	87,417	89,904	97,539	99,310	101,332	109,310	110,131	124,256	135,779
West Virginia U.	123	79,415	88,419	82,149	74,704	69,165	68,731	72,751	72,767	76,527	82,353	79,657	89,802	97,327	114,708	129,896
Rice U.	124	69,395	78,730	76,964	80,075	73,965	74,266	83,273	84,469	78,175	83,584	88,768	95,648	105,345	119,853	127,615
U. California, Riverside	125	63,127	62,312	63,821	59,065	57,397	63,515	70,489	76,795	77,314	81,151	92,503	97,182	114,257	120,524	126,339
U. California, Santa Cruz	126	84,518	97,817	94,222	91,002	90,858	92,870	95,294	66,563	63,197	74,669	76,468	86,263	107,082	112,847	117,064
U. Alabama, Huntsville	127	73,075	72,665	78,528	85,738	75,343	67,451	69,824	68,609	74,650	85,211	104,288	116,971	132,060	126,040	115,434
Thomas Jefferson U.	128	77,817	80,027	68,976	56,247	54,676	58,536	58,866	62,029	64,869	74,816	74,676	109,448	114,452	110,366	113,022
U. Alabama, Tuscaloosa	129	26,364	32,999	33,023	28,375	26,161	28,988	28,425	27,692	30,447	37,916	43,017	53,880	67,986	86,244	112,199
U. Rhode Island	130	62,981	78,303	83,754	74,870	65,715	64,711	61,641	62,785	64,026	73,080	67,242	78,923	93,190	102,056	111,503
Rockefeller U.	131	88,705	97,710	84,616	80,384	81,820	81,949	80,667	86,763	87,231	84,566	86,280	96,318	94,693	101,422	110,292
Drexel U.	132	77,438	83,702	87,860	76,343	77,684	69,462	67,020	70,921	82,777	85,278	82,576	93,517	99,399	108,724	109,643
U. Oregon	133	76,378	84,997	86,316	75,423	74,603	69,723	66,850	69,598	71,568	80,083	81,278	82,242	97,238	100,265	105,290
SUNY, U. Albany	134	124,324	125,189	112,989	114,158	105,333	79,681	77,734	85,469	87,451	92,709	67,039	56,425	51,492	62,935	104,769
U. Houston	135	52,920	59,580	55,812	61,038	58,954	58,458	62,703	60,033	63,801	68,523	71,779	77,489	84,295	99,450	103,963
U. Arkansas for Medical Sciences	136	72,217	75,924	69,883	64,856	55,556	50,603	48,999	51,298	57,523	63,498	70,508	83,387	95,080	94,483	102,854 i
U. Mississippi	137	71,475	74,918	74,955	64,590	64,218	59,978	64,510	62,483	63,736	73,865	82,361	76,886	84,270	85,186	102,574
Rush U.	138	51,304	57,978	57,512	57,063	53,501	52,193	50,332	51,532	64,178	68,941	65,343	73,279	79,647	93,180	102,320
U. Maine	139	50,163	59,800	39,661	34,252	50,589	35,369	34,277	37,321	45,348	51,049	54,376	65,249	84,072	92,870	101,733
Georgia State U.	140	27,073	28,210	34,075	37,521	42,259	50,122	52,351	71,248	71,650	70,185	78,199	79,834	81,641	91,331	96,654
U. Arkansas, Fayetteville	141	33,674	37,587	34,189	30,625	26,111	34,288	40,642	46,490	52,937	50,875	47,454	48,534	64,252	82,164	95,784
U. Louisiana, Lafayette	142	12,881	14,659	13,848	11,090	10,666	15,799	16,893	23,895	28,874	34,400	40,044	65,436	77,110	84,898	94,237
U. Maryland, Baltimore County	143	59,448	61,172	45,014	44,662	47,538	47,954	50,984	52,014	53,522	56,993	59,391	59,882	65,368	86,573	91,886
New Jersey Institute of Technology	144	50,051	54,250	59,398	57,466	54,655	55,094	67,490	79,397	91,999	89,846	85,746	77,057	71,326	70,080	90,947
U. North Texas, Health Science Center	145	25,847	26,132	26,627	24,187	21,943	22,422	27,163	26,368	27,579	27,260	25,917	32,464	55,062 i	77,660	90,722
U. Louisville	146	93,260	96,010	89,976	78,144	65,849	68,345	72,644	72,119	80,511	87,563	88,251	97,179	117,363	100,890	89,978
U. Nevada, Reno	147	58,115	57,220	55,437	56,900	53,363	51,724	53,371	54,782	62,635	62,903	64,793	77,246	83,631	83,603	89,152
U. Montana, Missoula	148	40,760	38,565	35,984	34,021	30,319	33,718	38,753	44,534	54,708	55,566	62,067	70,686	73,507	75,490	88,952



Table 16. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by FY 2024 R&D expenditures: FYs 2010–24

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
New Mexico State U.	149	98,399	90,598	90,722	86,806	80,599	78,903	62,292	59,885	54,009	58,022	60,971	64,699	71,718	71,764	84,715
U. North Dakota	150	52,504	54,058	54,476	46,491	40,340	37,697	42,425	43,262	51,050	49,700	44,153	58,463	62,737	65,890	83,377
Kansas State U.	151	68,560	76,953	77,689	70,167	67,438	69,918	71,224	75,468	80,436	81,269	79,100	77,779	81,820	82,610	83,225
U. Texas, Dallas	152	30,754	33,216	35,297	33,920	32,699	31,068	35,451	36,097	40,046	48,466	55,983	58,249	60,706	66,127	82,438
Oklahoma State U., Stillwater	153	56,998	81,855	85,876	44,200	36,687	38,585	42,976	44,977	43,421	39,880	39,873	47,428	53,885	64,098	76,701
U. Texas, El Paso	154	34,617	35,399	40,024	38,253	35,304	41,897	42,423	44,811	44,352	41,261	39,126	43,930	60,387	70,873	74,836
San Diego State U.	155	56,504	64,056	56,797	51,274	50,542	46,870	44,495	39,417	39,453	39,515	41,117	43,473	55,671	68,045	74,414
U. Wyoming	156	45,323	48,932	57,441	53,971	42,280	48,970	63,951	56,410	42,595	52,082	57,353	54,444	68,772	68,467	73,731
Augusta U.	157	na	na	na	47,913	47,771	50,585	50,294	48,921	48,800	47,031	55,797	61,943	64,609	64,410	73,564
Colorado School of Mines	158	29,892	33,789	33,481	32,399	34,781	34,266	35,677	37,505	40,161	49,603	55,560	61,421	66,200	68,795	71,415
U. Tennessee, Health Science Center	159	52,652	51,842	48,473	42,269	41,830	39,356	38,374	39,138	39,421	42,396	48,264	56,021	60,221	70,676	64,800
Texas Tech U.	160	35,970	35,191	29,969	28,827	33,137	32,987	32,405	31,347	31,357	35,136	31,475	33,938	45,136	58,922	62,892
U. Texas, Arlington	161	31,628	30,659	33,150	30,815	24,857	27,712	26,664	33,111	36,027	41,764	44,950	46,946	56,025	56,337	62,500
Northern Arizona U.	162	15,070	17,765	16,015	15,638	18,209	20,285	23,442	26,035	29,648	35,980	39,387	41,744	43,453	50,491	62,399
Naval Postgraduate School	163	93,605	94,278	127,049	91,134	96,573	78,780	56,045	47,082	44,140	54,358	51,870	54,855	44,852	62,715	62,115
U. Idaho	164	46,303	54,243	55,115	53,986	50,638	50,559	51,295	50,935	51,172	51,529	51,450	51,021	56,160	61,531	61,960
Rensselaer Polytechnic Institute	165	54,847	59,284	62,341	60,870	59,070	59,528	52,163	51,130	50,120	50,448	52,150	52,465	50,605	56,445	61,359
U. Texas, San Antonio	166	28,717	31,972	32,672	29,078	23,066	23,511	25,813	29,947	29,824	34,588	34,334	42,952	54,384	58,171	60,101
U. Massachusetts, Lowell	167	25,550	27,960	26,786	27,360	28,654	31,059	27,694	29,471	30,086	35,309	41,304	48,179	62,195	61,413	59,711
Stevens Institute of Technology	168	29,370	32,570	27,420	24,812	23,656	25,980	28,999	26,855	26,281	28,342	33,461	33,998	41,836	44,036	59,605
Cold Spring Harbor Laboratory	169	ne	51,529	43,874	41,002	41,845	49,063	50,478	54,260	67,139	73,854	62,215	56,907	59,163	54,123	58,273 i
North Dakota State U.	170	51,883	53,451	46,490	38,453	36,277	35,482	35,590	34,923	35,122	35,322	31,614	42,824	45,343	53,339	57,705
New Mexico Institute of Mining and Technology	171	42,243	37,316	29,894	23,581	33,245	20,018	17,017	18,358	19,560	22,864	22,922	24,900	72,594	100,873	57,649
Florida A&M U.	172	45,856	44,905	42,937	39,675	36,570	36,975	37,363	30,383	32,422	35,362	33,136	36,761	41,943	54,363	57,545
Michigan Technological U.	173	27,676	32,724	33,189	32,086	30,588	28,692	29,774	28,483	32,606	34,709	36,172	41,505	48,766	52,102	55,980
Howard U.	174	33,017	36,060	37,690	33,966	32,663	38,820	33,441	34,762	33,602	29,978	29,256	35,443	37,331	47,662	55,361
Syracuse U.	175	33,796	33,850	33,156	27,729	29,404	32,378	36,106	39,781	39,538	37,803	31,861	34,200	33,976	46,595	55,174
Cleveland State U.	176	25,024	42,575	46,645	50,243	44,233	41,851	49,925	52,541	55,468	51,475	53,756	47,402	53,395	56,550	53,415
U. Southern Mississippi	177	37,054	40,984	37,524	28,694	26,163	25,005	25,482	27,661	31,815	46,924	42,870	44,401	48,368	48,374	53,044
U.S. Air Force Academy	178	49,711	62,118	43,431	45,169	34,669	30,637	46,958	40,062	27,973	35,294	33,554	31,818	35,826	44,056	51,933
Texas State U.	179	8,904	10,319	11,950	14,908	14,243	18,289	21,049	25,132	30,314	29,614	26,950	31,116	38,936	44,297	48,686
Brandeis U.	180	43,669	48,235	44,532	45,337	47,532	47,841	48,273	46,108	38,632	41,475	41,440	43,471	44,205	46,654	48,548
U. Puerto Rico, Medical Sciences Campus	181	29,813	54,381	35,173	31,037	30,197	31,889	33,348	29,869	30,597	34,570	27,033	33,262	35,050	46,789	47,952
Boston C.	182	33,290	31,953	30,855	27,975	25,115	23,352	27,033	30,448	30,541	32,475	31,038	34,257	36,560	39,356	47,731
U. Nevada, Las Vegas	183	32,441	30,457	25,068	24,502	26,950	27,493	25,613	29,172	33,727	28,381	29,252	27,178	28,867	38,815	46,258
Lehigh U.	184	23,721	22,390	23,312	24,831	24,271	22,910	21,429	25,228	25,834	26,554	26,816	29,051	36,535	39,909	44,797
North Carolina A&T State U.	185	23,883	22,652	22,477	21,663	23,373	22,413	21,112	24,496	24,874	23,863	22,338	25,755	29,094	37,152	44,751
U. North Carolina, Greensboro	186	19,477	20,868	16,530	13,658	13,489	14,978	17,902	17,354	17,016	18,923	20,447	24,423	29,822	39,139	44,726

Table 16. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by FY 2024 R&D expenditures: FYs 2010–24

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Rochester Institute of Technology	187	23,254	20,396	19,394	18,379	19,465	20,147	26,149	27,311	25,990	26,359	28,092	31,187	33,373	37,334	44,203
Air Force Institute of Technology	188	15,474	20,196	19,579	18,739	16,782	16,727	19,796	25,588	23,393	21,856	22,854	27,025	32,479	45,087	44,128
Saint Louis U.	189	33,728	38,323	35,873	31,645	30,071	27,580	26,813	27,436	28,121	34,275	34,419	41,411	42,170	44,157	43,867
U. North Texas, Denton	190	14,444	14,754	18,043	16,515	16,318	15,470	12,621	15,668	19,026	17,345	13,653	18,702	23,056	30,017	43,136
Morehouse School of Medicine	191	25,855	28,128	31,786	34,511	33,020	30,012	28,678	28,792	24,326	22,461	22,500	25,181	31,339	41,069	42,379
U. Toledo	192	38,389	44,881	41,072	40,497	34,684	27,085	27,802	24,167	25,323	28,273	27,770	32,601	36,694	37,872	41,525
William & Mary	193	27,685	30,361	32,526	31,628	33,320	33,129	34,133	32,760	33,503	31,983	30,436	29,928	33,730	32,631	41,488
Indiana U.-Purdue U., Indianapolis	194	148,672	156,607	166,825	152,578	143,386	18,479	19,954	20,035	22,834	27,349	31,862	30,290	29,353	39,869	41,004
Worcester Polytechnic Institute	195	13,582	15,714	12,968	17,003	19,643	26,327	25,976	19,566	18,635	22,964	26,074	30,166	34,004	37,736	40,768
Catholic U. of America	196	15,878	19,890	17,608	17,310	17,205	19,900	19,928	19,857	20,749	21,642	22,503	23,128	26,285	35,502	40,655
U. California, Merced	197	9,392	10,140	11,052	10,983	10,509	12,648	12,206	14,923	14,385	16,850	20,000	18,621	23,421	28,576	39,951
U. Denver	198	13,364	14,042	11,779	15,089	14,202	12,048	11,029	11,648	15,713	22,012	24,753	23,415	26,040	33,148	39,622
CUNY, City C.	199	32,900	40,595	39,572	40,094	40,095	38,434	37,525	35,429	36,866	33,065	30,106	34,218	38,596	38,669	38,727
Boise State U.	200	14,614	18,811	20,070	16,117	15,746	18,296	16,953	19,806	24,918	24,493	26,914	31,357	32,015	35,801	38,325
SUNY, Upstate Medical U.	201	27,959	28,663	27,013	23,730	21,334	19,213	18,942	19,991	20,391	22,028	23,940	24,974	27,737	30,069	38,105
Missouri U. of Science and Technology	202	28,239	27,961	23,731	25,571	21,811	17,632	18,833	19,567	21,835	22,426	22,860	26,164	28,792	32,457	38,058
San Jose State U.	203	24,292	26,389	24,153	27,780	32,901	33,782	31,318	31,396	33,886	35,143	34,102	30,877	30,984	31,780	37,503
Morgan State U.	204	10,039	9,884	15,408	13,357	14,144	12,805	14,343	13,328	11,603	11,952	14,101	16,319	24,670	30,451	37,110
South Dakota State U.	205	38,368	41,904	41,975	33,231	29,524	28,670	29,633	28,003	27,129	29,683	22,531	18,607	22,991	28,897	36,703
Loyola U., Chicago	206	28,995	28,633	28,530	33,074	31,189	28,200	25,363	23,324	21,994	23,562	24,018	26,793	26,972	29,712	36,481
U. North Carolina, Charlotte	207	17,284	15,930	19,230	20,994	19,069	19,132	20,269	20,462	22,386	26,199	27,618	27,145	26,871	33,784	36,444
Portland State U.	208	36,996	41,580	42,662	40,377	33,523	29,987	32,021	32,727	31,234	33,055	31,315	29,842	30,922	31,731	35,955
Florida Atlantic U.	209	17,268	15,579	17,226	13,555	13,234	11,574	15,356	17,172	18,771	21,667	23,695	28,510	28,641	35,108	35,414
Louisiana State U., Health Sciences Center, New Orleans	210	46,142	45,581	40,637	36,886	34,637	36,027	31,526	28,018	26,988	31,290	31,381	34,272	33,087	35,933	35,394
Touro U., New York <sup>h</sup>	211	ne	0	53	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	40,008	35,150
U. Texas Rio Grande Valley	212	na	na	na	na	na	na	16,892	14,808	13,330	13,629	13,093	13,018	18,317	25,068	35,014
U. Memphis	213	20,654	20,348	22,142	18,619	21,898	18,825	18,098	18,185	25,166	18,370	18,063	21,578	24,686	26,913	34,728
U. South Alabama	214	14,730	16,758	13,816	13,743	14,353	15,106	17,628	16,627	15,098	19,947	21,825	23,758	23,762	28,637	32,361
Old Dominion U.	215	34,687	39,534	38,555	39,963	41,270	40,002	39,743	42,412	32,584	31,355	30,330	25,514	27,804	31,104	32,045
Illinois Institute of Technology	216	28,349	34,858	27,767	28,319	25,679	25,826	23,821	26,330	28,265	28,827	24,244	24,762	25,963	28,027	31,996
Van Andel Research Institute	217	ne	ne	ne	ne	ne	8,138	11,970	13,108	14,285	18,259	18,538	22,231	29,424	30,934	31,791
SUNY, Binghamton U.	218	20,979	21,244	21,162	17,715	14,843	16,171	18,562	20,639	23,392	24,213	24,564	23,225	24,888	31,601	31,348
Brigham Young U., Provo	219	22,115	24,273	22,069	23,639	24,490	24,250	28,453	26,441	23,892	23,901	24,632	30,439	31,636	31,216	31,324
East Carolina U.	220	16,113	19,675	17,838	18,227	17,409	15,079	13,073	11,526	12,611	17,428	20,168	22,813	29,648	30,851	30,338
Mercer U.	221	18,778	17,904	19,963	19,411	19,666	21,563	21,120	19,772	18,999	27,035	31,572	34,413	32,504	29,944	28,732
U. Massachusetts, Boston	222	24,527	26,958	33,275	24,924	27,715	28,653	30,608	29,934	30,412	25,083	27,575	23,673	23,131	27,098	28,676
Delaware State U.	223	10,154	12,822	11,305	11,837	12,464	12,091	15,260	14,693	13,007	12,179	14,319	16,460	24,361	24,167	28,488



Table 16. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by FY 2024 R&D expenditures: FYs 2010–24

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
SUNY, Downstate Health Sciences U.	224	25,023	33,964	34,884	31,972	25,802	20,779	25,941	22,496	26,302	26,914	26,454	27,620	25,081	28,543	28,276
Embry-Riddle Aeronautical U.	225	8,241	11,444	14,048	11,456	13,030	10,049	14,135	10,525	12,661	8,970	11,542	14,859	23,863	23,733	28,014
U. Wisconsin-Milwaukee	226	29,042	30,479	28,862	26,450	25,377	25,587	25,651	23,916	24,612	23,342	25,354	24,397	24,036	25,612	27,698
U. Missouri, Kansas City	227	16,391	18,988	17,522	15,774	15,178	13,327	13,081	11,296	10,596	18,624	22,320	21,203	31,134	28,115	27,638
Ohio U.	228	18,466	23,051	20,780	20,203	16,597	17,303	14,678	16,393	13,961	14,802	15,543	19,164	20,587	21,919	25,975
U. Nebraska, Omaha	229	6,014	6,333	5,980	5,693	5,687	6,066	7,180	7,486	7,939	8,807	9,996	13,503	17,301	22,096	25,294
Desert Research Institute	230	28,307	28,489	27,294	22,814	19,932	16,511	18,883	18,839	17,911	16,745	15,791	16,641	17,341	20,061	25,072
California State U., Long Beach	231	12,731	12,055	11,379	10,701	7,879	6,198	11,176	13,085	14,021	13,579	12,014	11,178	11,739	13,758	24,285
Marquette U.	232	9,381	11,291	9,968	8,756	8,191	9,320	10,298	10,111	10,672	12,792	13,187	13,918	15,316	20,055	23,110
Baylor U.	233	2,947	3,704	3,513	3,510	4,062	3,878	4,244	5,265	5,782	6,955	8,851	11,025	15,856	17,147	22,685
CUNY, Hunter C.	234	18,498	22,901	24,265	22,512	19,268	19,193	20,037	18,705	21,766	23,485	26,025	23,166	21,142	22,124	22,412
Southern Methodist U.	235	13,312	18,502	16,640	14,274	20,611	14,324	15,587	14,464	13,439	17,869	17,752	17,886	17,680	19,986	22,054
Eastern Virginia Medical School	236	29,291	25,319	24,694	28,728	28,532	28,637	21,459	21,209	21,356	19,408	15,748	14,774	17,616	17,947	21,658
American U.	237	8,841	9,208	7,515	10,421	9,427	9,449	9,554	8,800	13,013	15,229	16,123	12,076	14,752	17,462	21,538
Marshall U.	238	18,218	21,852	13,154	13,472	12,712	11,154	9,158	9,064	8,584	9,617	11,078	12,854	16,369	19,797	21,348
Rowan U.	239	2,062	2,108	2,349	1,926	4,591	4,674	5,252	7,110	9,602	12,064	15,551	17,400	18,613	18,454	21,291
U. Guam	240	4,962	5,391	5,448	5,554	6,599	5,586	6,621	8,067	8,597	9,339	9,722	14,316	17,066	18,992	20,986
Texas A&M U.-Corpus Christi	241	7,869	7,506	5,446	6,129	7,176	9,491	8,669	10,259	12,815	14,451	13,349	10,967	15,229	17,742	20,750
U.S. Military Academy	242	22,146	13,799	12,227	11,630	14,819	15,312	13,500	13,430	13,393	10,528	8,406	13,708	19,708	19,390	20,577
Jackson State U.	243	39,457	43,001	39,511	29,700	21,677	19,656	20,854	20,136	17,385	16,259	13,662	14,038	15,045	16,443	20,528
Tennessee State U.	244	7,414	8,369	10,240	9,872	12,016	11,145	12,291	10,557	10,291	8,962	19,272	15,066	10,859	15,983	20,520
Tuskegee U.	245	12,309	12,397	12,633	16,789	14,145	12,267	10,388	10,388	10,388	14,825	15,122	15,424	14,911	16,023	19,906
Meharry Medical C.	246	24,302	26,779	23,467	21,135	17,754	13,068	13,528	15,613	14,515	16,443	12,573	13,784	15,048	18,398	19,809
U. Puerto Rico, Rio Piedras	247	21,717	24,887	25,407	17,946	18,262	18,922	15,892	11,512	10,028	13,943	14,071	15,108	16,905	16,053	19,254
CUNY, Queens C.	248	13,642	15,573	14,897	15,443	16,460	14,080	14,275	11,884	12,390	13,457	12,726	12,386	14,756	17,811	19,019
Prairie View A&M U.	249	8,623	11,058	10,569	9,077	8,278	7,994	7,952	8,722	8,421	9,346	9,249	9,566	11,665	12,354	18,433
U. Colorado Denver <sup>C</sup>	250	na	na	na	na	na	na	na	na	na	na	na	11,866	12,668	17,181	18,293
Southern Illinois U., Carbondale	251	22,209	23,696	22,055	18,398	16,288	14,895	14,574	13,421	12,733	12,625	12,735	12,655	13,582	17,209	18,282
Kent State U.	252	14,586	15,085	14,882	11,506	11,181	11,158	10,013	10,524	11,118	13,350	15,004	15,179	16,195	17,959	18,251
Louisiana State U., Health Sciences Center, Shreveport	253	13,890	15,316	13,504	11,753	8,490	6,321	6,478	7,055	9,235	12,185	11,452	12,359	15,503	18,742	18,040
South Dakota School of Mines and Technology	254	25,172	28,105	14,480	7,853	7,078	9,286	10,370	10,639	10,240	9,283	10,659	11,587	15,100	14,640	18,006
U. West Florida	255	11,038	13,156	12,858	12,927	11,593	10,935	9,841	10,127	8,634	11,506	12,369	13,313	17,114	17,954	17,226
Rutgers, State U. New Jersey, Newark	256	12,631	18,226	20,588	16,295	12,520	12,611	13,737	16,617	17,516	15,397	16,196	16,281	16,099	16,315	17,099
U. Puerto Rico, Mayaguez	257	12,735	18,568	19,949	14,414	14,162	15,700	14,446	13,604	14,111	15,653	15,842	13,073	16,223	12,260	17,027
CUNY, Graduate School of Public Health and Health Policy	258	na	na	na	na	na	na	na	na	5,080	5,572	8,722	12,254	11,880	13,413	16,788
California State U., Northridge	259	17,213	19,769	24,837	7,906	11,309	12,060	13,442	14,756	15,892	16,939	17,261	13,989	15,546	19,169	16,778

Table 16. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by FY 2024 R&D expenditures: FYs 2010–24

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Texas Tech U., Health Sciences Center	260	12,950	14,790	13,944	14,820	9,853	10,251	10,384	9,143	7,546	11,345	13,043	12,148	14,620	14,732	16,721
U. Maryland Center for Environmental Science	261	12,123	18,007	16,081	16,852	13,202	14,096	13,957	15,069	15,008	17,476	15,498	14,072	15,109	15,378	16,689
San Francisco State U.	262	15,601	17,337	17,075	19,024	17,129	14,336	12,804	14,817	14,388	15,675	15,834	i 15,993	15,276	16,507	16,033
Wright State U.	263	24,785	27,422	25,552	26,888	27,838	26,931	30,162	35,533	43,644	41,428	35,321	19,617	20,529	19,081	15,597
Charles R. Drew U. of Medicine and Science	264	20,430	20,679	19,733	17,144	19,412	12,992	12,089	14,461	10,198	10,427	9,863	9,945	10,656	13,297	15,475
CUNY, Advanced Science Research Center	265	na	na	na	na	na	257	ne	2,355	4,027	6,859	9,208	11,840	12,580	11,916	15,129
U. Massachusetts, Dartmouth	266	12,236	13,657	10,979	8,860	8,549	7,321	6,548	7,370	7,156	7,353	6,506	8,223	11,162	13,742	14,803
Texas A&M U.-Kingsville	267	7,088	6,280	6,480	7,002	8,678	7,080	7,475	7,869	7,459	8,419	9,610	9,265	8,225	9,584	14,728
Tennessee Technological U.	268	7,490	6,397	4,674	3,999	3,725	3,578	4,076	4,969	5,390	6,153	6,471	7,625	8,156	9,975	14,602
U. Hawaii, system office	269	ne	ne	ne	ne	ne	ne	ne	ne	12,328	12,052	13,367	12,688	12,511	14,150	14,534
Nova Southeastern U.	270	5,718	6,904	6,653	5,379	5,992	5,896	7,381	7,979	7,853	8,965	10,452	10,386	9,314	11,637	14,369
California Polytechnic State U., San Luis Obispo	271	11,637	8,658	10,125	10,280	9,087	9,796	11,276	10,535	9,613	9,720	10,178	11,163	15,084	14,810	14,234
U. Alaska, Anchorage	272	9,368	9,858	10,760	9,686	7,824	8,575	11,867	12,681	13,597	14,219	15,290	15,079	15,249	12,646	14,204
Northern Illinois U.	273	17,334	11,807	12,861	12,415	9,174	9,158	9,957	7,947	8,903	8,610	8,030	9,080	9,840	10,849	14,151
Montana Technological U.	274	5,321	4,999	3,293	3,507	3,202	3,420	3,916	5,019	4,691	4,926	4,322	6,133	5,600	9,585	13,993
Loma Linda U.	275	29,284	32,187	24,884	26,253	19,088	21,082	16,118	15,192	13,923	i 12,654	i 11,385	i 10,116	9,134	12,485	13,846
U. South Dakota	276	16,467	14,490	14,088	15,274	12,162	9,214	8,832	11,134	12,523	13,367	13,034	11,664	13,702	14,101	13,807
Oakland U.	277	7,130	9,178	9,185	7,605	6,885	6,161	6,198	6,418	5,777	6,690	5,068	7,426	9,533	9,600	13,684
Missouri State U.	278	6,071	4,764	3,697	3,132	3,132	3,165	2,675	2,770	3,995	5,076	12,310	8,931	10,084	12,973	13,473
U. of the Virgin Islands	279	28,369	16,338	22,605	15,627	14,992	19,456	20,951	10,968	10,852	10,445	11,787	13,099	19,127	19,127	13,422
Teachers C., Columbia U.	280	6,533	8,526	10,173	8,494	8,909	12,775	11,635	10,194	8,925	8,054	7,614	8,521	10,177	11,871	13,361
Clarkson U.	281	9,573	9,531	7,061	5,283	5,476	5,440	6,183	6,819	8,203	8,551	7,095	7,246	8,834	10,611	13,293
Illinois State U.	282	5,442	4,586	3,833	3,902	5,213	4,424	5,630	5,355	6,312	9,827	8,719	9,787	8,673	13,612	13,132
U. Akron	283	12,107	12,962	16,768	19,658	20,263	14,676	25,433	16,395	12,470	11,796	10,574	9,024	11,036	10,709	12,910
Xavier U. Louisiana	284	5,669	6,673	7,177	5,856	7,078	7,735	10,503	10,939	10,165	8,679	9,680	11,213	11,733	12,833	12,892
Creighton U.	285	11,850	14,140	14,270	13,569	11,690	9,359	10,619	7,946	5,721	8,265	7,583	8,585	12,022	12,681	12,815
Albany Medical C.	286	15,758	13,884	11,845	10,278	9,716	9,481	10,714	11,040	10,243	11,827	12,940	13,166	13,384	14,193	12,760
Alabama A&M U.	287	22,154	22,120	i 22,086	i 22,052	i 22,018	i 21,982	18,556	i 15,130	i 11,704	i 8,277	5,643	7,432	i 9,221	12,197	12,701
North Carolina Central U.	288	6,870	9,496	11,076	8,253	9,757	10,874	10,455	11,977	12,947	13,503	12,787	10,676	13,709	12,975	i 12,241
Texas Southern U.	289	5,240	4,899	4,924	4,741	3,512	3,458	3,269	3,674	2,839	3,238	6,249	5,562	7,550	10,969	12,131
Western Michigan U. and Homer Stryker M.D. School of Medicine	290	19,738	18,736	14,378	12,322	11,334	11,869	12,287	10,565	10,828	14,399	13,187	13,944	12,895	12,631	11,928
Winston-Salem State U.	291	ne	1,179	1,977	841	ne	ne	1,356	1,575	1,629	2,011	4,498	4,841	8,903	7,901	11,818
U. Maryland, Eastern Shore	292	8,583	8,587	6,965	8,511	8,902	9,284	7,853	7,265	4,890	6,983	8,084	8,346	9,062	10,201	11,752
Central Michigan U.	293	2,536	4,841	5,055	5,464	6,187	5,464	5,387	5,557	7,130	8,100	7,450	6,919	9,773	9,591	11,541
New York Medical C.	294	21,095	21,013	16,471	13,806	11,421	11,326	10,772	9,000	8,141	11,061	12,106	10,739	9,070	8,226	11,490
Chapman U.	295	1,871	1,576	1,733	2,379	2,373	2,790	3,357	3,598	4,057	5,738	7,850	8,574	11,098	10,015	11,392
East Tennessee State U.	296	6,272	7,705	8,052	6,909	5,484	5,135	5,658	5,933	7,168	7,688	7,329	8,358	9,715	10,776	11,338

Table 16. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by FY 2024 R&D expenditures: FYs 2010–24

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Florida Gulf Coast U.	297	9,542	10,328	5,146	4,800	4,609	4,501	4,442	3,746	3,164	3,773	5,304	4,467	6,482	9,858	11,117
Miami U.	298	13,591	13,210	13,418	12,676	12,048	10,008	9,189	9,093	9,627	9,755	10,473	9,412	10,277	10,724	11,085
U. Tulsa	299	7,126	7,970	6,782	6,279	5,773	6,384	6,426	5,905	4,615	4,142	4,697	5,876	5,893	8,545	10,777
Florida Institute of Technology	300	9,175	7,637	7,500	7,543	8,581	8,315	9,500	8,465	8,511	10,352	10,999	13,049	10,970	11,520	10,759
California State U., San Marcos	301	4,106	4,827	i 5,548	i 6,271	6,091	4,573	5,273	5,594	7,497	9,134	11,547	8,831	7,986	9,845	10,758
California State Polytechnic U., Pomona	302	2,563	2,978	2,635	2,996	2,165	1,881	2,199	3,231	4,297	3,555	5,514	4,396	5,407	8,162	10,621
California State U., Sacramento	303	5,829	6,965	5,663	7,546	5,241	5,697	5,619	6,894	6,392	5,801	5,693	5,582	6,646	11,284	10,567
Louisiana Tech U.	304	10,806	11,952	9,835	8,881	7,742	5,776	5,455	5,608	5,801	6,564	7,167	6,428	5,734	8,118	10,178
U.S. Naval Academy	305	10,750	10,243	9,322	10,482	10,416	8,978	11,016	12,963	13,331	12,991	12,577	10,247	10,147	10,260	10,172
Alcorn State U.	306	9,256	8,655	8,598	8,321	7,447	6,784	6,387	8,634	7,372	7,540	7,023	7,593	9,294	i 10,996	10,148
Clark Atlanta U.	307	7,229	7,040	8,447	7,576	7,241	7,455	6,048	5,811	5,634	5,689	5,324	5,355	5,895	7,687	10,028
Villanova U.	308	6,367	i 6,817	5,518	i 4,218	5,008	4,572	4,334	4,048	3,968	4,085	4,921	5,826	6,476	8,741	9,754
Hampton U.	309	14,455	12,292	15,356	12,620	11,153	14,735	14,201	16,249	14,170	13,390	11,278	11,517	11,274	9,445	9,710
U. Arkansas, Little Rock	310	7,571	8,615	8,104	6,848	5,188	4,259	4,934	4,756	5,764	6,688	7,289	6,939	6,675	7,544	9,624
California State U., Los Angeles	311	7,234	8,426	6,847	7,065	4,923	4,291	3,804	6,612	8,586	9,288	8,380	7,342	8,605	8,973	9,598
U. North Carolina, Wilmington	312	14,364	14,218	11,571	9,133	6,063	5,819	5,966	5,990	5,732	7,174	6,783	6,852	7,178	8,116	9,547
California State U., East Bay	313	643	921	536	310	ne	ne	479	ne	ne	ne	2,348	3,289	8,997	8,508	9,172
Northeast Ohio Medical U.	314	4,009	4,081	3,816	5,244	6,582	7,607	9,181	10,043	9,743	10,107	10,684	9,999	9,400	8,873	9,018
U. Minnesota, Duluth	315	6,441	8,564	7,597	7,264	5,940	10,025	8,055	6,033	5,520	7,143	6,454	5,325	6,122	7,533	8,999
Duquesne U.	316	5,904	5,991	5,723	4,343	4,670	5,004	5,809	5,759	5,762	4,552	4,981	5,020	6,309	6,555	8,989
Idaho State U.	317	14,645	17,149	16,095	13,206	11,091	11,738	11,926	11,184	10,081	7,547	7,849	7,216	9,080	9,230	8,964
Western Washington U.	318	4,594	4,661	3,891	3,789	4,039	4,546	4,701	5,271	4,393	3,978	4,140	6,481	6,471	7,478	8,949
South Carolina State U.	319	6,334	8,630	i 10,926	8,770	i 6,614	i 4,456	4,556	i 14,300	14,938	i 3,659	4,076	i 4,493	i 4,910	i 5,330	8,936
Texas Christian U.	320	3,373	3,924	4,998	5,870	5,779	4,732	3,617	4,035	3,198	2,866	3,168	4,448	5,670	7,627	8,818
MGH Institute of Health Professions	321	ne	408	ne	ne	ne	3,766	2,228	1,839	2,957	3,494	3,014	2,500	4,628	6,200	8,800
U. Texas Health Science Center, Tyler	322	ne	ne	ne	ne	ne	3,713	3,757	5,792	6,438	i 7,084	i 7,732	12,007	14,362	12,555	8,444
Bowling Green State U.	323	4,963	6,164	7,005	9,323	6,576	5,544	6,229	6,395	6,056	5,852	6,397	7,263	7,918	8,208	8,204
SUNY, C. of Environmental Science and Forestry	324	8,907	8,732	i 8,557	i 8,382	5,564	7,784	8,313	7,730	6,873	7,743	7,809	6,979	7,766	9,231	8,133
Rosalind Franklin U. of Medicine and Science	325	8,350	9,317	10,084	11,202	9,754	9,368	8,478	8,828	9,249	8,865	8,504	9,357	7,292	7,124	7,989
Kennesaw State U.	326	1,246	1,054	2,214	i 3,374	1,413	2,329	1,925	2,085	2,343	2,499	1,983	3,104	3,290	5,908	7,668
Langston U.	327	3,313	3,778	3,957	4,153	5,816	5,621	9,178	8,326	i 7,474	i 6,622	9,004	3,089	3,616	5,473	7,583
Montclair State U.	328	1,876	2,629	3,593	3,410	2,533	2,716	2,649	2,163	3,505	4,164	3,782	4,146	5,189	5,916	7,489
U. Wisconsin-Superior	329	5,197	5,638	i 5,302	i ne	1,949	i ne	ne	ne	1,924	1,527	1,382	1,843	3,635	3,559	7,452
CUNY, John Jay C. of Criminal Justice	330	3,418	4,086	3,921	3,546	3,214	3,392	4,625	4,826	5,896	4,971	5,297	3,519	5,777	7,452	7,340
Western U. of Health Sciences	331	885	914	1,300	1,163	1,545	1,206	2,391	2,725	2,755	3,035	4,486	5,620	7,131	6,099	7,285
Kentucky State U.	332	3,501	3,146	4,924	3,906	4,335	4,590	5,146	5,382	i 5,618	4,692	4,456	3,716	4,743	7,605	7,244
California State U., San Bernardino	333	3,394	9,953	7,251	6,190	6,414	5,959	6,348	6,565	7,920	8,651	5,886	5,867	6,693	7,606	6,998
Fordham U.	334	4,132	3,925	4,187	4,874	4,258	3,969	5,979	5,761	4,973	4,218	3,831	4,076	4,856	4,687	6,944

Table 16. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by FY 2024 R&D expenditures: FYs 2010–24

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Ball State U.	335	3,988	3,064	3,320	2,440	1,971	2,291	3,253	2,531	3,028	2,929	2,397	2,469	5,302	6,355	6,935
U.S. Army War C.	336	ne	ne	ne	ne	ne	ne	ne	ne	ne	4,418 i	ne	4,662 i	5,496 i	6,035 i	6,793 i
Virginia State U.	337	5,552	6,035	6,999	6,212	5,424	4,951	5,204	4,779	5,655	6,636	5,642	4,846	7,115	7,166	6,684
U. of the District of Columbia	338	1,946	2,313	2,430	2,168	1,627	1,434	2,451	2,659	2,021	3,283	2,664	6,851	9,859	7,367	6,253
Fort Valley State U.	339	4,586	3,452	3,334	3,329	4,249	4,079	4,844	5,068	3,700	4,434	4,806	4,429	7,265	7,505	6,246
California State U., Fresno	340	3,424	3,795	3,532	2,682	2,921	3,573	3,539	3,511	3,969	2,900	3,117	4,101	5,928	4,864	6,203
Oklahoma State U., Center for Health Sciences	341	817	377	83	61	31	321	748	1,055	1,021	985	2,618	2,304	3,366	4,773	6,186
Sam Houston State U.	342	5,066	3,855	2,717	2,360	2,209	1,491	1,830	1,872	2,200	3,723	4,764	5,632	4,936	3,307	6,089
U. Colorado Colorado Springs	343	6,699	5,805	3,540	3,407	4,018	4,244	3,976	4,525	4,094	3,072	3,508	3,942	5,345	5,205	6,025
U. Hawaii, Hilo	344	12,265	7,150	20,726	15,391	8,603	12,772	9,402	5,461	5,264	4,924	5,274	5,510	5,292	6,068	6,015
U. New Orleans	345	19,244	19,000	14,521	11,051	9,490	7,492	6,826	5,568	5,258	4,353	3,868	3,674	8,270	5,283	5,950
Morehouse C.	346	7,857	8,460 i	9,063	9,226	6,919	5,944	4,301	3,667	4,531	4,494	4,825	4,533	5,664	5,750	5,903
U. New England	347	2,829	3,242	3,359	4,271	4,789	4,862	5,298	5,918	4,976	5,269	5,064	3,864	3,660	4,777	5,893
Southern U. and A&M C., Agricultural Research and Extension Center	348	ne	4,049	5,926	3,481	3,363	2,514	2,415	2,736 i	3,057	3,057	2,085	3,588	4,261	4,688	5,876
Naval War C.	349	ne	ne	2,938 i	2,700 i	2,736 i	2,653	3,210	3,797 i	4,384	5,060	5,944	5,542	5,529	5,819	5,868
U. Michigan, Dearborn	350	2,932	4,305	2,992	3,300	2,901	1,844	2,172	1,930	1,448	1,850	2,264	2,366	2,537	3,464	5,742
California State U., Monterey Bay	351	3,167	4,713	4,341	4,961	3,862	3,459	3,654	3,574	3,607	3,746	3,889	3,813	5,051	5,639	5,717
CUNY, Brooklyn C.	352	5,358	7,098	6,578	5,999	6,548	5,771	5,995	5,244	4,280	4,465 i	4,651	4,505	4,623	5,518	5,714
C. Charleston	353	11,610	5,056	6,277	6,385	5,051	6,200	6,269	5,870	4,376	4,395	3,087	4,126	4,485	5,036	5,698
Wesleyan U.	354	4,496	5,525	4,726	3,930	3,363	3,612	3,493	3,902	4,353	4,793	4,305	4,032	5,267	5,955	5,676
U. North Florida	355	4,636	5,082	3,760	1,424	1,177	1,198	1,356	1,435	3,818	4,017	4,568	7,267	7,758	8,113	5,667
Towson U.	356	1,806	2,630	1,771	2,015	2,268	2,020	1,616	1,599	2,133	2,144	2,010	1,758	2,844	3,653	5,432
California State U., Fullerton	357	13,651	16,159	12,440	11,716	6,932	4,784	3,815	4,237	4,981	4,340	4,121	4,551	6,136	6,049	5,372
DePaul U.	358	3,896	4,629	4,827	4,260	5,023	4,622	4,623	5,424	4,532	4,464	5,156	4,518	3,757	5,592	5,341
U. Washington, Tacoma	359	573	406	1,098	1,104	1,577	2,515	2,682	2,042	2,230	2,808	3,075	3,459	4,553	3,875	5,319
Gallaudet U.	360	5,522	4,633	4,335	4,500	3,012	2,340	2,135	2,380	2,259	2,190	1,841	2,140	3,287	5,523	5,300
Southern U. and A&M C., Baton Rouge	361	5,920	6,057 i	6,194	4,191	3,850	3,258	2,778	2,866	3,431	3,243	2,996	3,770	3,595	4,444	5,298
Salisbury U.	362	1,823	586	1,256	2,342	3,131	2,727	2,414	2,203	1,805	2,290	2,413	3,271	3,734	5,049	5,292
U. Missouri, Saint Louis	363	7,151	10,157	9,650	7,868	5,844	4,369	4,959	5,240	6,364	7,059	6,146	5,812	4,573	4,569	5,273
California State Polytechnic U., Humboldt	364	3,024	3,292	3,588	2,829	2,504	3,280	4,455	3,796	3,024	2,103	2,399	1,975	2,421	3,280	5,257
Lincoln U., Jefferson City	365	5,984	7,084	6,306	4,989	5,460	5,492	4,953	4,148	2,498	2,700	3,636	5,621	8,988	4,610	5,189 i
Northwest Indian C.	366	1,943	1,993 i	2,044	2,216	1,705	1,154 i	ne	ne	2,037	2,520	3,112 i	3,704 i	4,298	4,595 i	5,172 i
Providence C.	367	857	726	ne	827	ne	1,162	981	783	960	857	913	574	ne	4,648	5,021
California State U., Bakersfield	368	637	727	641	1,721	1,140	1,875	1,689	2,466	3,243	4,376	4,486	3,827	2,665	3,525	4,979
Norfolk State U.	369	5,413	6,462	7,739	5,523	6,492	5,104	7,230	7,101	6,912	8,046	7,148	3,976	3,398	4,381	4,918
Central State U.	370	2,544	3,528	3,390	2,688	2,000	1,508	1,546	1,491	2,299	2,517	3,097	4,165	5,576	5,523	4,749
U. Arkansas, Pine Bluff	371	3,947	4,696	4,540	4,550	3,875	3,912	4,233	3,747	3,683	4,299	4,393	3,960	3,306	4,204	4,728

Table 16. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by FY 2024 R&D expenditures: FYs 2010–24

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Tarleton State U.	372	6,379	6,036	5,086	3,525	3,683	3,927	4,495	4,602	4,288	4,632	4,139	4,620	5,055	5,478	4,718
Citadel Military C. South Carolina	373	ne	157	ne	ne	ne	ne	ne	ne	ne	ne	736	1,714	4,360	3,287	4,699
Dine C.	374	ne	959	ne	ne	ne	ne	ne	ne	1,238	1,126	347	ne	2,091	2,255	4,692
CUNY, C. Staten Island	375	952	1,583	1,470	1,311	1,400	1,222	1,700	1,543	1,982	2,421	2,295	2,234	2,916	3,296	4,625
U. Tennessee, Chattanooga	376	4,866	2,932	3,202	2,056	1,501	1,949	1,092	1,144	1,490	2,393	3,915	4,507	5,214	6,003	4,563
Western Kentucky U.	377	6,866	6,210	5,712	4,279	3,383	3,450	4,018	3,808	3,162	3,391	3,265	2,348	3,127	3,401	4,511
Barnard C.	378	2,754	3,325	3,194	2,568	2,373	2,384	3,082	2,777	2,491	2,871	2,800	3,527	3,758	4,235	4,334
CUNY, Lehman C.	379	2,560	2,700	2,215	1,874	2,249	2,394	3,625	3,734	4,478	3,342	3,197	3,382	3,652	4,487	4,313
Lawrence Technological U.	380	3,144	2,615	1,108	988	739	976	658	767	479	304	405	284	1,109	1,786	4,253
U. San Diego	381	1,352	1,184	1,903	2,066	2,451	1,836	2,152	2,299	2,397	2,511	2,398	2,554	2,911	3,501	4,220
Benedict C.	382	1,473	2,925	2,713	2,625	2,443	1,373	1,621	1,634	1,889	1,226	635	ne	ne	1,665	4,201
Spelman C.	382	2,740	1,833	1,874	1,366	1,185	1,035	1,291	1,227	1,673	2,004	2,136	1,886	2,539	4,567	4,201
Appalachian State U.	384	1,813	2,586	2,287	1,731	2,198	1,796	1,896	2,630	1,922	1,332	1,469	1,694	2,567	3,497	4,178
U. Washington, Bothell	385	446	911	701	825	2,005	2,236	2,863	3,169	2,920	3,353	2,815	2,956	4,009	3,787	4,149
Georgia Southern U.	386	2,077	1,530	1,359	2,092	3,247	3,004	2,695	2,978	1,805	1,780	1,790	3,373	2,605	3,562	4,075
Purdue U., Northwest	387	na	na	na	na	na	na	na	4,024	3,205	2,493	1,996	2,280	3,171	3,409	4,036
Southern Illinois U., Edwardsville	388	4,192	4,056	3,172	3,209	2,249	2,175	3,422	3,805	3,209	3,561	3,467	3,844	3,250	3,621	4,012
Albany State U.	389	396	893	2,000	1,532	1,271	1,128	1,137	1,026	839	1,065	836	552	ne	1,681	3,973
Loyola Marymount U.	390	1,731	2,815	1,222	1,357	1,142	819	707	883	1,040	1,185	1,105	2,170	2,824	2,921	3,958
Pennsylvania State U., Behrend	391	887	1,029	1,232	1,353	1,610	1,510	2,445	1,670	1,025	1,427	543	2,286	3,262	4,378	3,920
Texas A&M U.-San Antonio	392	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	394	1,233	3,916
Texas A&M International U.	393	1,623	1,195	989	868	977	658	924	1,730	2,008	1,847	986	1,243	1,624	1,966	3,903
Sul Ross State U.	394	1,595	1,672	1,073	735	546	333	272	440	553	339	481	843	1,205	1,568	3,900
Fort Lewis C.	395	340	511	ne	ne	ne	ne	ne	ne	ne	1,284	1,228	1,746	2,590	2,816	3,866
U. Detroit Mercy	396	633	856	508	ne	317	890	2,565	2,296	4,385	4,936	4,226	3,917	4,663	4,434	3,797
West Virginia State U.	397	2,759	3,193	3,945	3,316	6,006	5,562	4,126	5,072	5,361	4,592	3,993	4,119	4,278	2,800	3,779
Sonoma State U.	398	690	559	ne	1,800	1,581	964	630	ne	ne	ne	936	2,212	2,889	3,483	3,755
Arkansas State U., Jonesboro	399	6,194	8,644	9,645	6,360	3,958	4,347	4,826	4,396	4,371	4,876	4,712	4,249	3,932	3,083	3,744
Bowie State U.	400	ne	1,910	1,739	1,422	1,761	1,497	1,927	1,813	1,839	1,911	1,967	1,398	3,351	2,469	3,714
New York Institute of Technology	401	250	494	1,339	2,527	3,504	2,375	1,607	984	1,501	3,135	1,542	1,988	2,988	3,252	3,710
Texas Tech U., Health Sciences Center, El Paso	402	ne	ne	ne	ne	5,352	2,893	3,064	2,410	2,532	2,279	1,703	1,831	2,339	2,415	3,701
St. John's U., New York	403	1,274	1,263	1,185	872	883	992	940	1,020	1,612	1,666	1,805	1,950	2,456	2,792	3,685
Alfred U.	404	1,687	2,004	1,648	1,468	1,351	1,434	1,558	917	1,416	1,580	947	939	1,008	1,958	3,590
Western Illinois U.	405	658	746	3,855	1,183	735	373	ne	1,198	1,551	1,495	1,801	3,163	4,032	3,283	3,574
Middle Tennessee State U.	406	2,651	2,669	4,553	2,585	1,564	2,302	3,535	2,513	2,391	2,473	3,062	4,150	4,347	3,822	3,542
Eastern Michigan U.	407	9,088	7,916	7,374	2,428	1,031	1,482	1,627	1,474	1,522	2,135	2,598	2,237	2,346	2,521	3,500
Santa Clara U.	408	3,494	2,019	2,074	1,668	2,039	1,226	1,634	1,468	1,592	1,333	1,522	1,930	2,660	3,448	3,494
James Madison U.	409	5,563	5,218	6,476	4,617	3,017	2,418	2,203	2,273	1,879	2,717	2,609	2,379	2,884	3,475	3,482



Table 16. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by FY 2024 R&D expenditures: FYs 2010–24

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
U. Baltimore	410	1,812	3,288	3,386	2,906	2,947	2,998	3,769	4,289	7,431	9,103	11,748	11,692	4,853	4,250	3,471
Tougaloo C.	411	2,978	2,753	2,613	2,639	2,285	2,689	2,473	3,030	3,173	3,380	2,102	2,442 i	2,782 i	3,122 i	3,462
National Defense U.	412	ne	ne	ne	5,865	7,682	5,542	6,447	6,293	4,276	4,231	4,583	3,786	3,920	2,494	3,459
Smith C.	412	2,843	3,159	2,690	2,853	3,042	3,575	2,634	3,449	3,305	2,892	2,650	2,433	2,403	3,013	3,459
Alabama State U.	414	13,340	12,340	13,607	1,927	2,236	2,303	2,372	2,253	2,434	2,577	2,582	2,338	2,930	2,848	3,408
Seton Hall U.	415	2,206	2,681	1,667	1,694	1,801	1,919	1,975	1,982	3,551	3,982	2,725	2,137	2,092	2,778	3,392
New Mexico Highlands U.	416	970	989	735	741	969	ne	1,086	1,015	741	ne	1,034	1,828 i	2,622 i	3,416	3,348
Pacific U.	417	845	242	1,767	1,674	1,137	962	1,419	4,058	2,637	3,917	2,596	2,072	2,672	7,133	3,329
Hope C.	418	2,523	2,414	1,912	1,993	2,000	1,436	1,251	1,169	1,100	1,361	1,155	1,992	3,691	3,639	3,317
Pennsylvania State U., Harrisburg	419	963	1,302	1,290	701	269	565	270	215	292	80	451	1,616	1,911	3,045	3,305
U. North Carolina, Asheville	420	1,367	1,770	1,789	1,608	1,176	1,531	2,312	1,851	1,442	1,846	2,405	2,322	2,600	3,323	3,295
Fayetteville State U.	421	10,844	10,029	11,187	11,906	10,186	9,243	11,207	2,322	2,445	2,168	1,008	1,988	1,667	2,461 i	3,256
Colby C.	422	1,105	1,028	1,197	1,046	943	1,038	1,137	1,048	1,213	1,093	809	750	1,466	3,011	3,236
Clark U.	423	3,243	3,801	3,141	2,848	2,751	2,515	2,002	2,513	2,962	3,495	3,350	2,754	2,500	2,235	3,231
Midwestern U.	424	315	438	427	369	517	654	1,060	1,184	1,278	1,045	936	1,506	1,609	2,862	3,227
U. Northern Iowa	425	1,460	2,294	2,182	2,347	2,094	1,961	2,297	2,154	1,697	2,343	1,881	1,995	2,132	2,975	3,220
Carleton C.	426	1,803	2,332	2,212	3,347	3,157	3,813	3,508	3,366	2,542	1,891	1,236	1,499	1,914	2,800	3,167
CUNY, Graduate Center	427	4,901	3,462	3,191	2,827	2,310	2,106	1,796 i	1,485	2,592	3,009	2,561	2,496	2,535	2,792	3,157
Middlebury C.	428	2,245	2,289	2,513	1,856	1,351	1,535	1,736	2,002	1,774	1,558	1,546	2,639	2,281	2,564	3,135
Kean U.	429	ne	550	1,191	347	ne	244	323	ne	ne	ne	775	362	715	1,870	3,130
Amherst C.	430	1,102	1,992	1,988 i	1,985	1,543	1,835	1,207	1,228	1,630	2,118	1,775	1,375	2,862	2,869	3,091
Texas Woman's U.	431	822	1,173	1,908	1,136	961	722	573	945	1,422	1,864	1,700	1,514	2,091	2,439	3,026
Hofstra U.	432	2,206	2,182	2,660	1,967	2,577	2,119	2,149	1,471	1,275	1,296	997	1,266	2,118	1,995	2,990
California State U., Chico	433	1,502	1,317	1,345	1,682	1,169	854	933	581	1,060	1,864	2,520	2,258	2,312	3,152	2,964
Winthrop U.	434	ne	3,440	5,243	7,451	7,955	5,802	1,178	1,189	1,419	1,438	1,563	1,495	2,542	2,358	2,894
Wellesley C.	435	3,677	2,496	2,902	3,135	3,579	2,980	5,197	3,815	3,947	3,602	4,441	3,469	2,915	2,921	2,890
Long Island U.	436	630 i	681 i	666 i	655	ne	ne	852	1,615	1,929	1,839	1,349	2,686	2,652	1,993	2,879
U. Southern Maine	437	9,137	7,752	5,490	4,582	3,821 i	3,060 i	2,299	2,252	2,362	2,551	2,231	2,020	2,201	2,598	2,862
Northeastern Illinois U.	438	448	311	ne	ne	588	ne	ne	1,403	2,442	2,478	2,018	1,913	2,224	2,262	2,844
U. New Haven	439	ne	1,592	2,471	1,400	954 i	507	2,157	548	3,853	2,786	1,440	2,069	2,447	2,227	2,836
Saginaw Valley State U.	440	77	525	334	203	ne	223	237	621	1,227	2,339	1,809	1,899 i	2,341 i	2,503 i	2,818 i
Rutgers, State U. New Jersey, Camden	441	2,001	1,555	1,545	1,750	1,766	2,215	2,653	2,412	1,567	1,096	1,952	2,905	3,349	3,042	2,772
National U.	442	ne	650	1,194	1,762	1,968	1,848	2,012	ne	ne	ne	ne	ne	ne	ne	2,725
Chicago State U.	443	1,598	2,014	565	ne	ne	ne	910	ne	1,154	898	ne	ne	3,699	3,756	2,701
Bucknell U.	444	2,745	2,747	1,540	1,590	1,725	1,489	1,436 i	1,383 i	1,329	1,764	1,730 i	1,696	2,539	2,359	2,692
Fisk U.	445	7,686	4,631	4,058	6,307 i	8,557	9,050 i	9,544	4,327	2,781	4,615	3,811	3,940	3,486	3,819	2,681
California State U., Dominguez Hills	446	2,658	2,671	2,689	4,235	3,381 i	2,527	2,215	1,238	1,354	1,261	1,433	2,001	3,156	2,457	2,674
Keck Graduate Institute	447	ne	1,744	1,671	1,227	1,302	937	895 i	853 i	811 i	769 i	727 i	685 i	643	2,338	2,644

Table 16. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by FY 2024 R&D expenditures: FYs 2010–24

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
SUNY, C. of Optometry	448	2,829	3,336	3,162	2,757	2,567	2,490	2,487	2,073	1,944	1,823	1,688	2,105	2,080	2,469	2,613
Lamar U.	449	4,377	4,036	3,072	1,616	1,118	352	611	949	1,380	2,641	2,146	1,873	1,180	2,259	2,572
Youngstown State U.	450	2,067	3,304	2,159	1,834	1,876	2,346	1,083	3,257	3,634	2,878	3,308	2,198	3,533	2,691	2,491
Troy U.	451	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,591	1,488	2,296	3,069	2,441
Murray State U.	452	2,074	2,471	1,904	816	612	798	564	1,200	1,587	2,639	1,929	2,721	2,176	2,058	2,428
Texas A&M U.-Commerce	453	1,362	1,557	1,600	1,349	1,234	1,121	876	823	1,159	836	1,226	1,283	1,776	1,936	2,412
Austin Peay State U.	454	ne	729	484	364	189	334	325	347	599	295	475	597	870	1,401	2,386
Reed C.	455	796	772	678	897	1,125	1,638	1,690	415	1,065	1,423	1,806	1,948 i	2,090 i	2,232 i	2,377
Savannah State U.	456	1,774	2,518	1,874	2,514	2,127	1,796	2,251	1,390	1,778	1,709	1,804	1,804	1,881	1,675	2,376
Saint Joseph's U.	457	1,368	1,087	835	700	468	526	476	239	252	373	1,047	1,158	2,520	2,680	2,365
Yeshiva U.	458	163,399	197,032	201,397	193,831	186,885	180,791	30,266	816	683	380	772	1,509	1,695	1,229	2,348
Coastal Carolina U.	459	1,533	1,487	1,598	1,714	1,281	1,041	1,052	1,028	1,031	1,294	1,211	948	1,130	1,847	2,341
Black Hills State U.	460	2,434	1,172	1,675	2,163	1,720	1,674	2,056	1,448	1,437	1,535	1,287	1,124	1,676	1,918	2,304
Trinity U.	460	1,023	1,046	1,222	2,034	1,544	1,183	973	986	1,187	924	1,207	1,078	1,345	2,203	2,304
Northern Kentucky U.	462	1,476	1,595	1,483	1,240	1,418	1,342	1,133	1,109	890	1,316	1,462	2,156	2,596	2,413	2,289
CUNY, New York City C. of Technology	463	81	145	ne	ne	ne	ne	ne	ne	1,978	1,891	1,585	1,197	1,769	2,498	2,260
Roger Williams U.	464	1,574	2,132	2,166	1,877	2,038	1,696	1,736	2,024	1,052	1,135	1,045	1,202	1,351	1,973	2,244
National Louis U.	465	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	2,231
Christopher Newport U.	466	1,049	1,587	1,230	1,083	1,302	1,041	858	957	1,069	1,285	1,365	1,497	1,701	2,055	2,224
Vassar C.	467	1,280	1,838	1,258	1,694	1,220	1,133	1,495	1,600	4,185	909	1,055	918	1,052	1,204	2,205
Toyota Technological Institute, Chicago	468	ne	496	ne	ne	ne	1,392	1,410	1,581	1,759	1,934	3,038	3,090	2,199	2,127	2,186
SUNY, Oswego	469	644	871	ne	673	ne	ne	ne	669	661	628	492	415	544	894	2,176
CUNY, Baruch C.	470	1,010	1,150	1,209	735	695	845	1,325	1,027	1,412	1,359	1,470	1,691	1,894	1,879	2,168
Dakota State U.	471	ne	402	3,555	831	908	765	1,593	1,989	3,273	3,008	3,957	2,603	3,976	2,437	2,111
Hawaii Pacific U.	472	ne	1,261	1,145	850	1,116	789	2,071	1,921	1,905	1,809	1,699	1,741	2,667	1,942	2,083
U. Louisiana, Monroe	472	1,470	1,971	1,752	976	1,705	1,479	2,016	1,838	1,789	1,949	2,025	1,465	1,993	1,655	2,083
U. Central del Caribe	474	6,504	6,613	6,304	5,946	6,407	6,147	6,290	4,866	2,937	2,705	2,743	2,492	2,807	2,929	2,068
Pace U.	475	627	952	1,476	1,054	1,212	1,681	2,845	2,423	2,117	2,579	2,997	2,536	2,534	2,698	2,067
CUNY, system office	476	ne	ne	1,398	1,001	362	828	832	527	1,977	2,241	884	768	798	2,901	2,051
U. Wisconsin-Stevens Point	477	4,456	3,754 i	3,052	2,131	1,740 i	1,349 i	957	1,266 i	1,575 i	1,884 i	2,193	1,776	1,235	2,079	2,048
Grand Valley State U.	478	1,134	1,648 i	2,162 i	2,675	2,151	2,033	1,479	1,543	1,719	1,663	1,831	1,415	1,819	1,808	2,035 i
Harvey Mudd C.	479	2,049	2,594	2,038	2,004	1,457	1,633	2,320	1,521	1,762	1,619	1,748	1,443	1,956	1,968	2,012
West Texas A&M U.	480	2,100	1,347	1,802	1,315	1,551	1,860	1,735	1,338	1,329	1,565	1,542	2,195	2,123	2,118	1,990
Nevada State U.	481	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,167	1,711	1,989
U. Texas, Tyler	482	3,378	1,277	6,535	4,123	4,601	2,570	1,936	708	719	813	774	929	1,585	1,652	1,976
U. Houston-Downtown	483	908	1,186	1,828	1,183	1,800	1,571	1,165	1,710	1,836	1,437	1,392	1,169	903	1,495	1,975
Haverford C.	484	2,715	1,851	1,478	1,547	1,309	1,476	972	1,031	1,665	2,343	2,680	2,455	2,722	2,344	1,955
U. Central Oklahoma	485	1,059	1,146	750	765	1,042	3,193	1,409	1,168	1,127	1,457	3,172	2,248	2,060	2,624	1,950



Table 16. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by FY 2024 R&D expenditures: FYs 2010–24

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
New England C. of Optometry	486	726	1,236	1,685	1,588	533	419	618	ne	837	928	785	1,623	1,609	1,946	1,935
Bowdoin C.	487	1,815	1,942	3,317	3,244	2,330	2,156	2,457	1,812	2,065	1,790	1,862	1,836	1,867	2,186	1,928
Franklin and Marshall C.	488	1,857	1,397	1,116	879	889	1,017	955	1,732	1,760	1,582	1,202	1,363	1,680	1,469	1,924
U. Wisconsin-Oshkosh	489	832	1,154	1,238	1,012	1,048 i	1,084 i	ne	1,113 i	1,106 i	1,099 i	1,092 i	1,083	1,336	1,249	1,904
U. of Health Sciences and Pharmacy in St. Louis	490	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	3,767	4,063	2,523	3,110	1,867
Swarthmore C.	491	913	1,029	1,135	1,239	1,292	1,379	1,458	1,451	1,586	1,539	1,041	1,414	1,733	2,315	1,866
Virginia Military Institute	492	451	133	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,137	1,534	1,855
Lake Superior State U.	493	ne	133	ne	ne	ne	327	272	726	237	ne	ne	ne	1,184	1,475	1,826
U. Central Arkansas	494	1,658	1,732	1,989	1,898	1,297	1,300	1,138	1,236	1,262	1,462	1,421	1,640	1,731	1,824	1,823
West Chester U. Pennsylvania	495	3,614 i	5,845	1,457	561	404	511	454	624	671	715	724	608	854	1,386	1,822
Claflin U.	496	3,226	5,103	5,090	2,643	1,711	1,158	1,743	1,344	1,491	1,735	1,907	1,005	1,179	1,418	1,816
Dillard U.	497	7,096	7,211 i	7,325	7,692	6,889	8,853	7,605	5,592	5,503	1,390	1,200	1,257	1,422	1,228	1,792
C. New Jersey	498	461	254	ne	ne	ne	ne	ne	929	829	ne	951	1,079	1,984	1,755	1,779
U. Puerto Rico, Humacao	499	1,950 i	1,976	1,949	1,452	1,102	669	ne	ne	882	828	1,279	1,137	1,160	1,822	1,759
United Tribes Technical C.	500	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,337	1,757
U. Wisconsin-Eau Claire	501	1,320	829	817	655	395	ne	661	955	705	748	647	909	681	1,027	1,740
Davidson C.	502	1,153	1,053	651	1,619	1,170	1,703	813	1,105	813	973	1,411	1,151	1,370	1,340	1,738
Eastern Washington U.	503	46	559	725	1,226	885	955	1,287	1,193	1,081	864	1,153	775	855	1,015	1,722
U. San Francisco	504	428	371	1,867	858	738	503	280	405	310	198	148	255	547	1,015	1,709
California State U., Stanislaus	505	ne	1,037	1,070	650	341	174	221	478	734	964	1,284	1,354	1,056	1,150	1,705
Central Washington U.	506	4,038	2,242	1,840	1,263	1,113	1,575	1,580	2,297	1,840	2,159	1,701	1,778	2,429	2,499	1,693
Southeastern Louisiana U.	507	1,161	911	985	1,039	692	1,429	975	1,215	1,046	803	884	795	1,285	1,366	1,688
Furman U.	508	1,332	1,111	1,164	1,217	891	1,136	1,068	1,292	1,110	1,106	847	1,028	1,280	1,300	1,685
California State U., Channel Islands	509	ne	451	ne	425	528	825	249	142	284	500	553	993	1,638	1,773	1,672
U. Ana G. Mendez, Gurabo	510	691	1,054	1,034	747	1,111	447	437	428	471	951	946	926	1,407	2,132	1,660
Western Carolina U.	511	1,296	721	974	664	669	740	873	971	1,038	1,736	1,707	1,697	1,727	1,600	1,651
U. Nebraska, Kearney	512	289	1,018	716	840	656	515	891	1,047	1,075	1,240	1,259	1,327	1,900	1,739	1,645
U. Houston-Clear Lake	513	301	818	730	875	739	541	756	753	894	718	632	865	841	1,273	1,635
Norwich U.	514	ne	1,064	733	878	831	1,121	461	480	ne	ne	ne	ne	ne	1,366	1,611
Skidmore C.	515	1,872	1,562	1,334	1,448	1,193	969	747	1,194	1,893	2,261	1,827	1,739	861	1,288	1,605
U. Hartford	516	820	1,576	1,505	1,175	1,080	1,089	1,172	1,178	591	1,019	854	766	886	1,269	1,601
Marian U., Indianapolis	517	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	918	1,598
Lafayette C.	518	1,223	1,564	1,205	1,166	1,070	1,066	997	1,493	1,133	910	755	508	1,300	1,141	1,557
U. Richmond	519	2,138	1,831	2,376	1,979	2,134	2,013	1,924	1,870	1,628	1,575	1,628	1,534	1,624	1,379	1,552
Oregon Institute of Technology	520	ne	193	ne	ne	ne	270	1,268	752 i	235	437	326	252	340	1,375	1,548 i
Williams C.	521	2,330	2,117	2,029	1,498	1,029	1,700	1,614	1,703	1,458	1,131	1,086 i	1,152 i	1,286 i	1,455 i	1,537 i
Indiana U. Pennsylvania	522	660	833	672	101	169	ne	373	1,309	891	1,810	1,309	1,503	1,797	1,702	1,536
U. of the Pacific	523	3,135	2,678	2,090	1,676	2,675	1,751	1,991	1,474	2,141	2,158	1,375	1,106	1,351	1,300	1,510

Table 16. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by FY 2024 R&D expenditures: FYs 2010–24

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Colgate U.	524	1,519	1,058	1,497	1,320	1,153	1,109	1,217	1,096	1,389	1,202	918	1,440	1,570	1,521	1,509
U. Alaska, Southeast	525	1,222	941	1,003	1,113	1,183	1,341	1,502	1,480	1,636	1,235	1,098	1,046	1,392	1,463	1,492
U. Hawaii, Maui C.	526	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	951	ne	1,234	1,443
SUNY, Buffalo State U.	527	1,293	1,965	2,348	1,336	1,076	846	859	877	1,057	1,225	1,241	977	1,299	1,615	1,419
Mount Holyoke C.	528	1,362	2,010	1,827	1,863	2,435	2,327	2,848	3,168	2,210	2,074	1,442	1,539	1,511	1,612	1,394
U. of St. Thomas (MN)	529	842	933	767	702	352	ne	195	212	320	313	450	1,321	527	531	1,391
Seattle U.	530	468	622	530	ne	1,348	927	820	862	1,644	1,307	1,303	1,102	1,143	1,165	1,389
Merrimack C.	531	ne	ne	ne	ne	ne	ne	ne	ne	353	ne	306	ne	ne	892	1,339
Sacred Heart U.	532	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	675	ne	639	1,337
Southern Utah U.	533	ne	190	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,331
U. Northern Colorado	534	2,082	1,681	1,373	1,024	1,965	1,359	1,962	2,349	2,271	1,966	1,853	1,942	1,692	1,705	1,325
CUNY, York C.	535	ne	1,507	861	693	ne	534	ne	ne	ne	1,511	1,513	922	1,659	1,504	1,318
Utah Valley U.	536	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,280	1,671	1,306
U. Texas of the Permian Basin	537	677	761	1,179	974	489	595	510	328	50	ne	757	1,762	1,538	1,013	1,294
Union C., Schenectady	538	1,427	959	867	1,863	1,385	1,080	1,680	554	885	972	462	976	750	729	1,288
Occidental C.	539	665	904	1,079	1,105	1,365	853	1,260	701	901	1,614	1,567	2,348	1,994	1,640	1,285
U. of the Incarnate Word	539	ne	217	ne	ne	ne	403	ne	ne	868	1,075	869	1,076	1,078	1,086	1,285
U. Puerto Rico, Cayey	541	710	1,278	1,515	1,168	1,143	959	1,105	704	632	963	1,210	1,202	757	733	1,259
Marymount U.	542	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	337	178	396	1,242
Claremont McKenna C.	543	1,130	1,083	1,082	1,081	1,080	ne	644	754	555	730	771	637	1,070	1,035	1,208
U. Virginia's C. Wise	544	76	38	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,307	786	447	1,207
Pittsburg State U.	545	999	1,280	989	791	1,023	453	270	316	195	339	477	759	1,167	1,591	1,199
Alaska Pacific U.	546	283	349	ne	ne	ne	802	671	665	436	451	148	189	581	627	1,183
U. South Carolina, Aiken	546	122	592	ne	937	759	689	1,155	2,697	2,437	2,379	2,328	1,884	857	782	1,183
Southern Connecticut State U.	548	1,459	1,199	1,595	1,176	1,620	1,626	1,324	1,274	823	803	1,026	713	848	1,433	1,159
Bryn Mawr C.	549	1,301	1,901	1,848	2,514	1,353	1,713	2,556	2,507	2,242	1,801	1,531	1,429	1,257	1,289	1,152
La Sierra U.	550	ne	17	ne	ne	0	45	127	575	623	640	618	812	972	1,066	1,148
Monmouth U.	551	2,190	1,873	714	ne	635	ne	173	ne	ne	120	110	174	535	762	1,143
Oberlin C.	552	1,359	1,183	1,330	1,204	1,204	1,364	962	1,558	1,096	1,576	743	505	ne	880	1,142
Manhattan C.	553	166	245	ne	ne	ne	ne	ne	ne	ne	245	398	397	440	422	1,131
U. Wisconsin-Green Bay	553	778	732	686	640	594	545	919	666	546	821	890	876	1,046	1,222	1,131
U. Scranton	555	19	64	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	866	1,109
Ferris State U.	556	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,430	1,103
U. Puget Sound	557	166	295	ne	ne	ne	ne	ne	459	ne	ne	401	ne	780	1,300	1,102
Pomona C.	558	1,048	1,779	1,599	2,227	1,789	1,074	1,579	1,038	868	863	1,123	930	1,217	1,205	1,083
Colorado State U., Pueblo	559	364	354	ne	ne	ne	ne	ne	ne	ne	1,282	1,161	1,508	1,278	952	1,072
East Stroudsburg U. Pennsylvania	560	ne	250	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	598	909	1,071
Kenyon C.	561	413	358	ne	ne	ne	ne	ne	ne	764	776	714	ne	1,021	1,092	1,069

Table 16. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by FY 2024 R&D expenditures: FYs 2010–24

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
SUNY, Geneseo	562	755	1,306	1,532	640	474	663	930	992	998	1,206	950	1,273	1,564	1,292	1,062
Claremont Graduate U.	563	5,888	5,215	8,875	8,452	7,358 i	6,264 i	5,170 i	4,076 i	2,982 i	1,886	809	1,152	1,610	1,422	1,061
John Carroll U.	564	1,036	635	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,052
New School	564	1,670	2,042	2,385	2,669	1,972	2,300	2,428	2,345	1,857	1,819	1,050	1,324	1,261	1,337	1,052
Lewis and Clark C.	566	843	684	718	1,490	1,378	872	636	723	848	931	1,268	702	746	776	1,051
U. Wisconsin-La Crosse	566	2,150	2,013 i	1,876	1,240	1,095	1,006	1,250	1,158	1,171	777	817	895	968	714	1,051
Aaniiih Nakoda C.	568	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,045
Bentley U.	569	ne	ne	ne	ne	ne	ne	ne	110	ne	ne	ne	ne	509	1,014	1,037
Morehead State U.	570	1,528	1,656	1,597	1,816	1,069	1,217	1,797	2,162	1,839	1,651	1,674	1,727	2,086	1,718	1,029
Butler U.	571	ne	189	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,227	1,077	1,004
Minnesota State U., Mankato	572	2,051	852	701	313	317	546	1,260	605	639	708	525	575	575	905	977
Arcadia U.	573	1,206	1,621	620	ne	ne	ne	ne	ne	ne	ne	ne	371	ne	772	955
Stephen F. Austin State U.	574	5,530	1,690	1,800	1,836	1,850	2,340	1,808	1,276	1,242	1,332	1,257	1,029	879	1,098	951
Ursinus C.	575	413	462	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	942	940
Florida Polytechnic U.	576	na	na	na	na	na	203	ne	ne	ne	338	252	459	706	1,172	939
Juniata C.	576	150	162	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	939
Drake U.	578	456	382	ne	573	ne	ne	1,116	772	699	463	ne	1,016	1,211	954	936
Touro U., California	579	999	1,558	1,390	1,351	1,374	1,332	1,199	1,196	1,410	1,540	1,558	1,377	964	1,279	923
Johnson C. Smith U.	580	ne	ne	ne	ne	ne	ne	1,279	1,469	2,003	1,909	2,230	2,049 i	1,868	1,554	915
National U. of Natural Medicine	581	ne	247	ne	ne	ne	ne	ne	427	ne	760	912	523	ne	862	910 i
Bates C.	582	971	1,485	1,555	1,390	1,114	2,004	1,156	1,053	1,121	1,607	1,885	2,079	1,785	1,455	909
Erikson Institute	583	ne	355	1,648	1,187	1,212	1,610	1,719	2,529	1,822	753	1,006	772	815	1,245	904
SUNY, C. Plattsburgh	584	1,187	726	454	ne	459	717	545	455	1,254	1,197	950	824	584	1,121	893
SUNY, C. Brockport	585	521	677	989	755	564	535	639	747	672	638	781	500	751	813	889
Eastern Kentucky U.	586	2,638	2,852	2,329	2,078	1,518	1,111	1,029	758	655	598	554	530	ne	798	871
Macalester C.	587	1,075	1,517	1,106	876	879	708	771	970	553	805	647	617	943	1,094	859
Indiana State U.	588	990	1,352	1,268	858	1,005	992	1,189	816	927	1,190	949	582	894	980	838
Pepperdine U.	589	933	299	808	914	1,162	1,058	1,233	1,087	713	914	693	835	883	674	827
Weber State U.	589	355	550	192	ne	ne	ne	ne	ne	ne	ne	424	ne	ne	ne	827
Loyola U., Maryland	591	555	603	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	820
St. Cloud State U.	592	1,260	622	215	420	797	1,299	643	555	529	733	459	577	401	689	810
Plymouth State U.	593	1,408 i	2,668	2,503	2,331	2,229	1,770	925	827	794	ne	ne	ne	571	ne	805
SUNY, Cobleskill	593	1,382	909	ne	874	ne	ne	ne	ne	ne	ne	ne	ne	379	730	805
Calvin U.	595	2,084	560	664	774	1,273	1,034 i	795	880	1,363	925	927 i	929 i	931	854	803
Valparaiso U.	596	505	892	1,299	744	978	1,267	1,595	1,229 i	ne	ne	ne	ne	ne	ne	799
Polytechnic U. Puerto Rico	597	ne	193	ne	ne	ne	ne	ne	ne	ne	1,884	813	ne	ne	ne	796
St. Olaf C.	597	1,247	843	1,220	955	760	668	849	797	333	255	230	271	ne	933	796
Hobart and William Smith Colleges	599	1,118	1,379	1,103	1,896	730	442	ne	528	ne	1,047	1,072	758	1,264	1,019	767

Table 16. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by FY 2024 R&D expenditures: FYs 2010–24

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	
Northern Michigan U.	600	287	237	ne	ne	ne	ne	288	304	354	311	446	366	571	560	752	
Southern Oregon U.	601	639	885	799	896	474	ne	ne	ne	ne	ne	ne	ne	ne	ne	749	
Keene State C.	602	ne	1,884	1,956	i 2,029	2,130	820	ne	837	ne	1,022	1,043	894	ne	ne	745	
U. Illinois, Springfield	603	436	455	602	534	415	307	725	1,533	1,109	980	976	1,071	1,210	1,057	712	
Dickinson C.	604	602	821	1,029	692	568	517	397	380	ne	324	222	ne	ne	ne	707	
SUNY, Polytechnic Institute	604	na	na	na	na	21,208	14,641	21,380	41,252	41,795	38,245	27,998	25,427	32,396	34,393	707	
Robert Morris U.	606	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	605	i 664	706	
Suffolk U.	607	ne	299	249	360	317	250	413	i 576	i ne	ne	844	634	340	893	702	
Stockton U.	608	ne	405	160	ne	380	198	221	ne	246	553	872	486	728	688	701	
Edward Via C. of Osteopathic Medicine	609	ne	707	502	517	250	89	88	94	195	749	566	537	482	678	686	
St. Bonaventure U.	610	767	974	220	ne	ne	ne	159	ne	ne	ne	265	ne	ne	ne	646	
Elizabeth City State U.	611	5,552	10,402	4,284	4,439	2,461	2,058	1,827	1,306	960	ne	1,455	1,603	1,667	1,093	642	
Andrews U.	612	280	77	ne	ne	ne	ne	ne	ne	ne	278	263	256	ne	445	638	
Grinnell C.	613	1,161	287	648	372	414	546	340	652	635	364	644	344	242	1,082	634	
Hamilton C.	614	1,077	1,406	1,400	1,153	918	559	442	135	129	190	144	286	338	413	633	
U. Michigan, Flint	615	227	322	ne	ne	ne	ne	ne	219	159	122	276	113	ne	ne	627	
Denison U.	616	469	i ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	622	i
Northwestern State U. Louisiana	617	635	683	609	600	494	ne	490	458	490	579	598	738	742	680	i 618	
U. South Carolina, Beaufort	618	338	675	ne	ne	ne	478	ne	ne	ne	ne	ne	ne	ne	889	615	
Roosevelt U.	619	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	614	
U. of Mary Washington	620	ne	660	445	ne	ne	425	ne	ne	418	577	660	485	501	406	610	
Franklin W. Olin C. of Engineering	621	ne	666	1,090	946	1,050	1,103	782	588	472	162	293	636	809	641	595	
U. North Georgia	622	ne	ne	ne	ne	ne	ne	ne	671	1,013	637	542	497	734	477	589	
Western New England U.	623	ne	931	325	ne	ne	ne	581	214	ne	ne	ne	ne	648	538	579	i
Albany C. of Pharmacy and Health Sciences	624	1,380	1,634	1,182	1,333	1,643	1,065	380	566	1,094	1,692	1,938	1,900	1,110	844	i 578	
U. Wisconsin-River Falls	625	134	174	i ne	ne	ne	ne	ne	529	445	ne	488	212	ne	551	575	
Milwaukee School of Engineering	626	1,177	1,181	1,207	1,245	1,500	1,335	1,164	775	680	764	613	751	969	722	573	
U. South Carolina Upstate	627	15	224	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	566	
High Point U.	628	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	565	i
Midwestern State U.	628	10	ne	ne	ne	ne	ne	ne	ne	ne	ne	599	ne	ne	ne	565	
Seattle Pacific U.	630	114	1,155	1,071	1,126	931	915	850	813	ne	ne	ne	ne	ne	ne	564	
Gettysburg C.	631	524	266	ne	ne	ne	ne	ne	597	901	841	320	ne	ne	517	562	
Nicholls State U.	632	946	1,571	1,284	562	293	108	185	ne	ne	ne	ne	ne	ne	ne	558	
Liberty U.	633	ne	ne	ne	ne	ne	ne	ne	ne	ne	535	886	120	ne	532	548	
Trinity C., Hartford	634	1,026	1,217	1,432	1,040	1,313	889	893	2,084	794	1,077	1,019	1,348	1,049	687	545	
Berry C.	635	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	534	
St. Catherine U.	636	ne	265	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	300	ne	517	
Palmer C. of Chiropractic, Davenport	637	3,009	3,344	2,906	1,991	1,775	i 1,558	1,485	1,189	1,100	1,100	1,400	1,733	1,550	1,500	500	

**Table 16. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by FY 2024 R&D expenditures: FYs 2010–24**

(Dollars in thousands)

[illegible]

Table 16. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by FY 2024 R&D expenditures: FYs 2010–24

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
All other surveyed institutions	-	1,312,724	1,471,539	1,447,380	1,342,888	1,110,050	1,079,085	1,117,224	1,169,162	1,247,408	656,074	624,897	278,997	267,486	9,018	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$2,478,980 thousand in federally financed R&D expenditures in FY 2024.

<sup>b</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>c</sup> The University of Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

<sup>d</sup> The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

<sup>e</sup> The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

<sup>f</sup> The University of Oklahoma includes expenditures from the University of Oklahoma, Tulsa and University of Oklahoma, Norman and Health Science Center campuses. Due to a reorganization, the campuses began reporting as one unit in FY 2024.

<sup>g</sup> The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

<sup>h</sup> Touro University, New York includes the Lovelace Biomedical Research Institute. In FY 2023, the Lovelace Biomedical Research Institute joined the Touro University System.

**Note(s):**  
Institutions reporting zero federal expenditures for FY 2024 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 5](#).

**Source(s):**  
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.



Table 17. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by all federal R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All institutions	-	64,639,941	2,597,399	2,904,063	36,573,922	727,271	4,899,902	1,027,212	1,295,442	498,894	12,185,245	1,930,591
Johns Hopkins U. <sup>a</sup>	1	3,618,064	292,282	57,547	962,169	256,137	339,814	7,302	6,492	46,906	1,645,349	4,066
Georgia Institute of Technology	2	1,213,430	202,856	8,557	22,545	4,791	26,200	2,974	4,476	0	923,812	17,219
U. Michigan, Ann Arbor	3	1,165,494	8,448	12,050	697,776	8,462	44,098	12,351	129,941	2,325	239,934	10,109
U. California, San Diego	4	1,151,518	6,297	180,065	685,305	3,237	69,123	10,842	8,709	0	161,714	26,226
U. Washington, Seattle	5	1,135,734	22,582	141,390	697,305	9,998	65,355	9,745	13,785	0	144,745	30,829
Columbia U. in the City of New York	6	1,076,805	29,984	69,404	797,478	2,274	45,830	2,381	2,707	0	98,956	27,791
Duke U.	7	1,039,631	13,258	8,754	856,722	5,513	28,052	7,949	26,009	2	92,243	1,129
U. California, San Francisco	8	1,036,633	0	0	988,789	0	47,844	0	0	0	0	0
U. Pennsylvania	9	1,018,602	14,628	771	832,231	3,934	57,553	7,905	17,457	1,161	63,768	19,194
Stanford U.	10	1,012,767	15,334	13,848	751,119	6,162	80,304	9,016	6,135	0	102,868	27,981
U. California, Los Angeles	11	980,183	11,608	41,034	697,811	7,272	56,805	14,766	26,652	27,997	72,994	23,244
U. Pittsburgh, Pittsburgh	12	967,978	7,540	12,014	842,684	3,491	23,112	10,220	1,655	7,103	55,239	4,920
U. North Carolina, Chapel Hill	13	949,913	42,853	18,734	696,910	3,834	37,817	27,876	64,150	0	24,363	33,376
U. Wisconsin-Madison	14	930,647	22,827	47,056	554,664	6,587	76,564	4,861	38,201	44,387	108,643	26,857
U. Maryland <sup>b</sup>	15	922,237	54,304	84,082	424,385	4,814	112,803	13,689	36,796	28,403	135,156	27,805
Pennsylvania State U., University Park and Hershey Medical Center	16	858,666	98,607	28,747	194,624	24,923	72,399	28,964	20,587	0	374,697	15,118
Yale U.	17	845,058	7,124	3,902	749,944	1,894	39,757	7,115	2,981	0	25,867	6,474
Washington U., Saint Louis	18	821,852	4,935	6,762	712,390	1,369	27,996	9,167	2,558	0	33,435	23,240
Vanderbilt U. and Vanderbilt U. Medical Center	19	809,693	17,984	1,138	675,270	643	17,527	12,317	3,294	0	54,388	27,132
New York U.	20	805,148	13,822	544	678,855	9,793	19,398	22,292	11,570	0	27,857	21,017
Cornell U.	21	792,078	21,746	5,177	529,578	3,087	119,167	3,724	6,544	244	96,296	6,515
Ohio State U.	22	774,210	18,275	6,266	509,298	3,411	37,561	5,057	11,346	18,090	130,390	34,516
U. Minnesota, Twin Cities	23	748,229	10,596	9,616	535,008	5,519	35,051	23,512	19,947	447	98,159	10,374
Emory U.	24	744,597	2,800	0	689,113	1,803	17,033	3,901	1,470	17	25,715	2,745
U. Southern California	25	739,426	121,516	11,094	425,465	1,350	14,467	8,206	62,959	0	75,260	19,109
Northwestern U.	26	735,735	7,613	1,535	560,478	1,678	57,078	2,514	11,191	18,110	71,574	3,964
Icahn School of Medicine at Mount Sinai	27	693,444	0	0	693,444	0	0	0	0	0	0	0
U. Texas, Austin	28	690,835	138,730	52,798	89,699	7,333	73,168	13,259	16,378	0	258,113	41,357
Harvard U.	29	672,947	9,022	17,426	452,078	19,235	64,698	2,820	45,839	395	47,442	13,992
Massachusetts Institute of Technology	30	595,053	61,026	28,788	92,776	6,729	142,218	923	9,074	5,252	240,944	7,323
Texas A&M U., College Station and Health Science Center	31	582,674	23,014	95,409	185,425	6,743	36,114	5,634	18,414	5,465	176,573	29,883
U. Florida	32	581,252	11,401	12,160	398,358	2,490	28,921	10,537	7,900	0	92,195	17,290
U. Colorado Boulder	33	567,693	21,362	137,086	54,376	5,212	157,431	15,303	11,918	1,561	143,267	20,177
U. California, Berkeley	34	518,011	2,681	6,375	153,990	6,619	158,385	8,568	14,605	54,912	101,760	10,116
U. Illinois, Urbana-Champaign	35	511,574	41,956	11,140	124,717	2,845	62,391	9,235	5,046	130	235,831	18,283



Table 17. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by all federal R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. California, Davis	36	505,442	7,754	10,784	378,877	3,937	21,929	3,381	6,041	5,326	61,028	6,385
U. Chicago	37	504,337	31,420	9,818	321,617	5,692	72,168	6,888	7,560	0	41,638	7,536
U. Colorado Anschutz Medical Campus	38	498,397	0	17	495,300	0	127	994	28	0	484	1,447
U. Alabama, Birmingham	39	498,148	1,112	0	462,585	283	5,852	7,618	359	0	17,486	2,853
Uniformed Services U. of the Health Sciences	40	482,223	0	0	464,619	0	0	17,604	0	0	0	0
Michigan State U.	41	474,762	11,710	4,234	199,022	8,978	163,164	8,706	20,124	1,501	42,260	15,063
U. Arizona	42	471,394	6,857	18,356	269,198	3,082	82,346	10,189	10,468	2,381	63,611	4,906
Case Western Reserve U.	43	466,362	3,873	513	385,089	581	14,577	1,814	2,722	0	51,107	6,086
Indiana U., Bloomington	44	456,845	25,737	2,817	361,668	1,416	21,143	10,020	10,572	1,138	13,357	8,977
Baylor C. of Medicine	45	453,738	0	0	453,738	0	0	0	0	0	0	0
U. Utah	46	453,025	0	8,957	276,878	3,118	21,493	3,971	15,708	0	99,597	23,303
Purdue U., West Lafayette	47	451,802	22,375	6,691	126,945	1,413	37,402	3,119	7,284	1,399	221,032	24,142
Boston U.	48	421,753	7,768	5,971	279,807	3,141	30,644	18,957	1,252	2,013	61,737	10,463
U. Cincinnati	49	411,205	1,135	1,004	361,767	794	7,901	7,661	4,569	0	21,031	5,343
Rutgers, State U. New Jersey, New Brunswick	50	408,320	6,103	16,403	298,806	5,740	14,554	8,586	2,336	0	43,715	12,077
Arizona State U.	51	396,431	32,211	57,568	89,337	1,733	22,277	9,174	26,936	9,161	103,574	44,460
U. Virginia, Charlottesville	52	394,731	12,327	5,119	220,162	1,834	25,490	6,414	949	0	75,189	47,247
Oregon Health and Science U.	53	389,585	0	0	377,550	0	15	0	0	0	12,020	0
U. California, Irvine	54	384,504	14,510	10,901	238,696	5,346	34,275	8,006	2,681	0	54,028	16,061
U. Rochester	55	376,088	2,582	1,926	210,569	196	125,486	5,508	604	8,336	18,478	2,403
Utah State U.	56	364,880	2,320	799	29,960	448	3,725	3,833	758	0	320,010	3,027
U. Texas Southwestern Medical Center	57	359,693	0	0	357,385	0	0	330	0	0	1,978	0
U. Iowa	58	338,639	2,980	1,137	232,504	746	55,287	9,041	1,143	617	28,476	6,708
U. Miami	59	322,331	1,848	56,858	233,332	456	7,432	15,582	315	0	5,010	1,498
North Carolina State U.	60	316,076	18,723	23,373	102,028	11,909	21,623	1,116	2,606	11,177	116,334	7,187
Virginia Polytechnic Institute and State U.	61	308,282	21,187	3,566	100,245	5,526	16,282	4,691	4,139	0	133,336	19,310
U. Nebraska, Lincoln and Medical Center	62	301,070	5,098	1,483	205,990	1,678	26,429	12,137	2,580	169	39,652	5,854
Colorado State U., Fort Collins	63	300,857	5,483	52,763	153,471	2,715	15,749	2,801	3,719	9,662	45,414	9,080
U. Illinois, Chicago	64	299,986	7,184	1,723	220,711	3,429	22,937	1,994	3,176	539	29,813	8,480
California Institute of Technology	65	298,754	7,018	25,185	64,391	1,020	155,608	1,898	853	79	42,627	75
SUNY, U. Buffalo	66	284,562	14,783	4,646	153,639	668	10,166	4,025	765	0	89,397	6,473
U. Texas M. D. Anderson Cancer Center	67	282,431	0	0	243,458	10,852	13,309	6,226	8,586	0	0	0
Carnegie Mellon U.	68	280,169	133,642	1,390	9,035	6,102	15,461	8,128	1,534	4,363	99,312	1,202
U. Kentucky	69	273,724	2,925	1,895	203,942	1,172	6,234	5,902	2,679	510	41,051	7,414
U. South Florida	70	272,483	15,585	20,353	150,048	1,131	4,532	3,577	16,274	14	37,276	23,693
Scripps Research Institute	71	272,039	0	0	272,039	0	0	0	0	0	0	0

Table 17. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by all federal R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Georgia	72	255,117	2,898	10,396	172,990	1,997	5,359	19,701	14,999	213	12,285	14,279
Brown U.	73	253,661	10,109	12,365	135,333	13,904	11,512	12,227	24,713	9,682	21,818	1,998
U. Connecticut	74	253,110	4,056	8,707	144,885	1,660	11,960	17,705	4,478	197	50,829	8,633
Princeton U.	75	250,294	18,228	25,714	64,373	5,081	65,051	2,251	7,712	0	61,067	817
Woods Hole Oceanographic Institution	76	250,140	0	167,400	0	0	0	0	0	0	82,740	0
U. Kansas	77	245,710	6,299	6,941	140,766	642	12,211	7,597	1,670	337	20,360	48,887
Oregon State U.	78	244,264	4,070	50,574	101,451	692	6,677	1,556	3,337	3,068	63,123	9,716
Albert Einstein C. of Medicine	79	242,594	0	0	242,594	0	0	0	0	0	0	0
U. Missouri, Columbia	80	241,938	4,408	1,644	169,915	1,298	9,242	4,987	2,016	1,175	21,004	26,249
U. Dayton	81	241,753	33,125	263	1,343	55	403	231	15	0	201,784	4,534
U. Hawaii, Manoa	82	237,482	28,579	59,081	91,258	364	26,781	526	2,224	5,646	21,422	1,601
U. Massachusetts, Medical School	83	231,375	0	0	231,375	0	0	0	0	0	0	0
U. Delaware	84	229,392	5,107	20,098	41,054	1,997	32,983	5,853	9,132	3,257	102,183	7,728
U. Texas Health Science Center, Houston	85	227,118	0	0	227,118	0	0	0	0	0	0	0
U. Oklahoma <sup>C</sup>	86	225,360	6,049	53,387	98,186	412	9,209	3,217	5,539	10	43,975	5,376
Wake Forest U.	87	224,282	354	0	220,537	246	1,743	283	78	0	967	74
U. New Mexico	88	221,867	2,996	5,306	134,777	935	13,158	7,190	5,525	250	48,418	3,312
Washington State U.	89	221,721	8,626	6,877	129,426	187	14,783	3,561	5,313	3,063	25,351	24,534
Northeastern U.	90	218,650	18,769	5,514	24,904	1,036	24,833	9,505	8,643	0	116,014	9,432
Iowa State U.	91	216,003	4,869	2,663	76,738	11,825	25,557	879	1,494	0	87,445	4,533
Virginia Commonwealth U.	92	208,743	1,920	84	154,766	643	3,999	7,524	887	0	13,703	25,217
Florida State U.	93	204,544	2,841	8,419	55,246	2,326	36,595	10,451	6,299	1,622	49,673	31,072
SUNY, Stony Brook U.	94	186,497	10,878	17,404	79,367	5,387	30,442	2,838	1,070	6,671	30,036	2,404
Dartmouth C. and Dartmouth Hitchcock Medical Center	95	185,769	5,003	3,479	115,453	4,237	9,651	9,795	1,552	859	34,831	909
Wichita State U.	96	182,881	0	26	2,832	380	1,977	133	18	0	174,719	2,796
U. Tennessee, Knoxville	97	180,010	1,990	1,881	52,999	1,563	18,832	1,332	1,688	13,701	80,267	5,757
George Washington U.	98	179,220	3,046	438	130,994	553	6,082	3,210	11,331	1,975	17,724	3,867
Medical U. South Carolina	99	173,379	0	0	173,379	0	0	0	0	0	0	0
U. California, Santa Barbara	100	171,188	11,219	19,249	6,056	1,507	37,949	3,008	4,131	12,736	73,488	1,845
Tufts U.	101	169,588	3,225	1,547	118,758	2,167	8,333	4,649	1,457	4,227	23,493	1,732
U. Alaska, Fairbanks	102	168,918	1,280	104,243	25,853	369	10,348	0	925	6,969	16,904	2,027
U. Texas Health Science Center, San Antonio	103	165,935	0	0	165,935	0	0	0	0	0	0	0
Florida International U.	104	165,202	13,879	19,711	28,864	1,082	20,854	26,715	8,819	189	38,236	6,853
U. Texas Medical Branch	105	161,678	0	0	161,126	0	0	0	0	0	552	0
Clemson U.	106	161,658	5,790	0	41,534	1,768	8,512	4,499	5,397	0	78,025	16,133
Mississippi State U.	107	161,636	8,361	10,970	67,457	316	7,831	1,238	15,060	1,065	45,257	4,081

Table 17. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by all federal R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Tulane U.	108	159,185	1,312	5,566	135,446	667	4,752	2,821	3,881	0	4,453	287
Temple U.	109	159,138	5,799	510	116,913	748	10,925	10,807	1,519	0	5,255	6,662
Montana State U., Bozeman	110	158,999	2,992	4,530	41,408	1,509	23,390	932	549	6,011	64,978	12,700
Auburn U., Auburn	111	157,999	4,537	2,886	68,258	1,047	11,077	670	1,223	1,242	61,879	5,180
U. New Hampshire	112	151,886	1,103	85,251	30,659	609	3,237	246	10,092	0	17,173	3,516
Wayne State U.	113	151,878	2,775	130	107,974	822	13,858	2,767	2,674	3,245	8,701	8,932
Medical C. Wisconsin	114	150,035	0	0	146,354	0	0	0	0	0	3,681	0
George Mason U.	115	147,327	23,618	15,980	18,234	1,471	5,619	2,818	13,016	111	61,653	4,807
U. Massachusetts, Amherst	116	146,876	18,104	3,240	45,778	1,960	20,781	5,331	4,637	0	42,825	4,220
Georgetown U.	117	145,787	2,948	0	123,914	165	7,455	3,654	6,325	0	0	1,326
U. South Carolina, Columbia	118	144,878	3,471	4,452	75,634	1,541	1,478	7,514	3,078	0	37,731	9,979
U. Notre Dame	119	144,327	11,299	0	14,549	2,223	42,059	5,054	3,419	3,517	49,799	12,408
Louisiana State U., Baton Rouge	120	142,226	4,553	15,539	74,263	2,012	14,691	1,182	2,916	218	18,393	8,459
U. Vermont	121	138,601	1,192	2,555	109,764	374	1,463	1,392	7,608	1,726	10,601	1,926
U. Central Florida	122	135,779	18,316	2,304	20,215	896	38,112	5,361	2,958	2,064	39,493	6,060
West Virginia U.	123	129,896	897	13,401	65,900	204	11,845	534	1,699	921	28,943	5,552
Rice U.	124	127,615	7,808	5,319	12,493	4,536	21,878	5,434	1,788	2,579	63,505	2,275
U. California, Riverside	125	126,339	7,735	7,217	57,415	1,625	19,463	2,912	989	0	25,594	3,389
U. California, Santa Cruz	126	117,064	6,583	16,733	22,479	1,760	21,651	861	600	2,360	42,826	1,211
U. Alabama, Huntsville	127	115,434	33,823	24,169	669	98	12,798	0	893	0	41,923	1,061
Thomas Jefferson U.	128	113,022	0	0	112,855	0	0	0	0	0	0	167
U. Alabama, Tuscaloosa	129	112,199	6,297	28,576	13,777	391	7,714	4,642	3,292	0	35,907	11,603
U. Rhode Island	130	111,503	1,388	48,531	32,644	29	3,268	3,242	2,624	1,994	13,733	4,050
Rockefeller U.	131	110,292	0	98	107,508	272	2,414	0	0	0	0	0
Drexel U.	132	109,643	5,235	0	60,967	749	2,169	3,029	391	317	28,576	8,210
U. Oregon	133	105,290	4,790	7,198	31,868	1,179	14,225	21,340	2,581	21	5,319	16,769
SUNY, U. Albany	134	104,769	1,258	6,999	32,646	488	3,444	1,024	3,652	0	54,417	841
U. Houston	135	103,963	3,737	5,161	28,066	2,994	11,092	11,618	2,415	682	32,379	5,819
U. Arkansas for Medical Sciences	136	102,854	0	0	102,854	0	0	0	0	0	0	0
U. Mississippi	137	102,574	156	1,753	78,442	256	10,233	59	617	0	7,005	4,053
Rush U.	138	102,320	0	0	97,626	0	0	4,694	0	0	0	0
U. Maine	139	101,733	1,160	11,972	31,624	20	2,320	16	162	4,305	47,381	2,773
Georgia State U.	140	96,654	3,244	1,816	45,920	557	12,415	5,071	8,412	0	0	19,219
U. Arkansas, Fayetteville	141	95,784	6,942	1,686	25,532	547	9,654	1,170	3,208	642	40,136	6,267
U. Louisiana, Lafayette	142	94,237	15,498	2,253	34,577	193	238	0	4,438	0	11,913	25,127
U. Maryland, Baltimore County	143	91,886	10,696	31,184	9,508	279	22,392	1,508	8,707	1,226	4,650	1,736

Table 17. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by all federal R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
New Jersey Institute of Technology	144	90,947	4,498	0	18,167	1,103	11,122	0	90	79	53,370	2,518
U. North Texas, Health Science Center	145	90,722	0	0	87,775	0	0	0	2,947	0	0	0
U. Louisville	146	89,978	22	162	71,075	88	557	2,545	284	872	12,461	1,912
U. Nevada, Reno	147	89,152	3,944	8,399	43,759	293	8,834	3,342	1,150	0	17,958	1,473
U. Montana, Missoula	148	88,952	2,205	2,836	62,979	425	9,355	216	3,835	0	0	7,101
New Mexico State U.	149	84,715	4,378	3,102	30,253	349	8,599	15	483	4,207	32,572	757
U. North Dakota	150	83,377	2,676	3,302	19,156	0	3,091	402	67	21	49,346	5,316
Kansas State U.	151	83,225	1,048	492	44,086	507	10,224	2,784	4,399	248	15,581	3,856
U. Texas, Dallas	152	82,438	6,632	459	21,542	852	13,817	2,294	723	0	35,307	812
Oklahoma State U., Stillwater	153	76,701	565	1,132	28,730	1,296	5,485	2,434	2,711	3,252	28,600	2,496
U. Texas, El Paso	154	74,836	6,150	3,814	18,787	1,228	4,786	4,049	1,326	0	31,589	3,107
San Diego State U.	155	74,414	919	1,409	25,380	2,110	6,615	18,593	1,824	4	6,328	11,232
U. Wyoming	156	73,731	1,179	19,354	38,755	556	3,376	128	1,136	479	8,246	522
Augusta U.	157	73,564	1,025	0	72,235	70	202	28	0	0	0	4
Colorado School of Mines	158	71,415	3,966	8,992	1,919	611	16,119	14	1,051	25	37,481	1,237
U. Tennessee, Health Science Center	159	64,800	0	0	64,800	0	0	0	0	0	0	0
Texas Tech U.	160	62,892	1,651	4,566	19,063	850	5,076	1,111	1,359	0	27,507	1,709
U. Texas, Arlington	161	62,500	4,470	125	8,960	1,709	10,123	1,058	44	0	32,308	3,703
Northern Arizona U.	162	62,399	8,220	4,364	37,764	0	3,587	202	401	538	6,135	1,188
Naval Postgraduate School	163	62,115	7,568	8,751	100	1,991	2,774	104	1,885	1,071	33,853	4,018
U. Idaho	164	61,960	3,588	3,660	42,687	218	1,535	0	2,034	0	6,475	1,763
Rensselaer Polytechnic Institute	165	61,359	5,530	1,618	5,485	721	5,228	3,219	281	0	37,669	1,608
U. Texas, San Antonio	166	60,101	13,058	4,630	18,469	288	5,146	348	2,439	265	11,909	3,549
U. Massachusetts, Lowell	167	59,711	6,464	461	11,744	92	11,547	402	2,250	0	24,305	2,446
Stevens Institute of Technology	168	59,605	3,342	1,725	0	473	1,782	0	0	0	51,228	1,055
Cold Spring Harbor Laboratory	169	58,273	0	0	58,273	0	0	0	0	0	0	0
North Dakota State U.	170	57,705	1,570	123	27,527	133	7,849	1,075	1,962	1,553	15,107	806
New Mexico Institute of Mining and Technology	171	57,649	21,794	5,996	492	9	6,444	365	0	0	21,001	1,548
Florida A&M U.	172	57,545	201	5,392	26,443	110	2,329	98	976	0	13,346	8,650
Michigan Technological U.	173	55,980	7,127	14,088	4,696	287	2,223	100	313	136	26,911	99
Howard U.	174	55,361	6,854	0	24,685	296	6,400	350	1,899	0	7,664	7,213
Syracuse U.	175	55,174	2,378	1,242	13,302	342	11,501	1,250	3,551	291	8,619	12,698
Cleveland State U.	176	53,415	0	0	35,129	319	875	206	984	0	15,192	710
U. Southern Mississippi	177	53,044	26	23,586	11,242	0	9,116	0	1,376	0	5,402	2,296
U.S. Air Force Academy	178	51,933	1,313	0	9,313	12	4,115	50	94	891	36,045	100
Texas State U.	179	48,686	1,525	1,864	6,816	1,721	3,745	461	4,376	67	4,936	23,175

Table 17. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by all federal R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Brandeis U.	180	48,548	894	27	21,831	1,163	11,400	3,018	9,071	918	119	107
U. Puerto Rico, Medical Sciences Campus	181	47,952	0	0	47,952	0	0	0	0	0	0	0
Boston C.	182	47,731	1,006	7,163	9,271	1,071	12,120	3,356	3,402	0	114	10,228
U. Nevada, Las Vegas	183	46,258	1,221	3,597	19,053	416	7,246	1,018	836	0	9,722	3,149
Lehigh U.	184	44,797	2,302	1,371	8,403	465	4,407	405	582	0	24,202	2,660
North Carolina A&T State U.	185	44,751	2,732	0	15,281	1,104	3,501	202	1,011	1,830	16,157	2,933
U. North Carolina, Greensboro	186	44,726	865	21	10,611	467	4,731	3,558	4,335	0	0	20,138
Rochester Institute of Technology	187	44,203	8,946	0	3,510	2,243	9,747	478	427	0	13,580	5,272
Air Force Institute of Technology	188	44,128	5,349	1,139	0	12,307	5,747	0	0	0	19,073	513
Saint Louis U.	189	43,867	961	1,828	32,674	260	2,662	51	262	0	2,918	2,251
U. North Texas, Denton	190	43,136	6,537	91	5,211	308	3,286	2,204	2,061	0	19,254	4,184
Morehouse School of Medicine	191	42,379	0	0	42,379	0	0	0	0	0	0	0
U. Toledo	192	41,525	0	3,807	18,080	43	9,773	96	9	0	6,322	3,395
William & Mary	193	41,488	3,245	18,925	1,822	300	6,122	267	2,540	0	0	8,267
Indiana U.-Purdue U., Indianapolis	194	41,004	2,465	1,453	16,477	512	3,119	2,842	5,429	531	4,602	3,574
Worcester Polytechnic Institute	195	40,768	8,294	0	1,420	2,024	3,606	0	605	0	23,190	1,629
Catholic U. of America	196	40,655	99	0	1,227	154	34,912	431	0	0	2,316	1,516
U. California, Merced	197	39,951	1,417	2,765	10,855	1,154	6,479	13	3,165	2,452	9,096	2,555
U. Denver	198	39,622	437	271	7,507	101	1,654	5,890	4,609	208	1,372	17,573
CUNY, City C.	199	38,727	619	1,721	7,337	270	10,123	1,393	0	4	17,144	116
Boise State U.	200	38,325	1,648	3,509	7,913	681	5,091	227	1,542	242	15,583	1,889
SUNY, Upstate Medical U.	201	38,105	0	0	38,105	0	0	0	0	0	0	0
Missouri U. of Science and Technology	202	38,058	1,377	0	251	274	4,470	465	34	1	31,186	0
San Jose State U.	203	37,503	19	8,947	2,823	415	3,680	16,306	341	0	2,443	2,529
Morgan State U.	204	37,110	2,547	10,279	7,224	434	2,938	353	393	0	7,369	5,573
South Dakota State U.	205	36,703	23	1,228	26,633	731	2,541	474	606	0	3,820	647
Loyola U., Chicago	206	36,481	1,176	0	32,476	4	1,149	574	316	0	0	786
U. North Carolina, Charlotte	207	36,444	8,428	854	6,309	1,357	5,178	519	2,179	0	8,964	2,656
Portland State U.	208	35,955	1,708	1,773	13,721	1,901	979	1,221	2,034	62	5,260	7,296
Florida Atlantic U.	209	35,414	2,933	316	15,555	619	1,845	887	78	0	12,064	1,117
Louisiana State U., Health Sciences Center, New Orleans	210	35,394	0	0	35,394	0	0	0	0	0	0	0
Touro U., New York	211	35,150	0	0	35,150	0	0	0	0	0	0	0
U. Texas Rio Grande Valley	212	35,014	499	1,414	16,741	866	2,425	376	822	218	10,317	1,336
U. Memphis	213	34,728	4,566	1,608	4,412	439	922	1,492	3,034	1,875	8,645	7,735
U. South Alabama	214	32,361	2,766	7,241	10,532	403	495	852	258	0	8,535	1,279
Old Dominion U.	215	32,045	1,776	2,302	2,922	855	6,085	1,024	691	0	14,011	2,379

Table 17. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by all federal R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Illinois Institute of Technology	216	31,996	3,694	99	12,911	554	2,560	0	83	161	11,876	58
Van Andel Research Institute	217	31,791	0	0	31,791	0	0	0	0	0	0	0
SUNY, Binghamton U.	218	31,348	2,012	253	3,830	235	5,257	5,998	881	0	10,531	2,351
Brigham Young U., Provo	219	31,324	776	249	7,602	444	5,443	74	210	0	15,355	1,171
East Carolina U.	220	30,338	1,543	3,934	17,261	100	1,176	1,595	930	0	1,879	1,920
Mercer U.	221	28,732	274	0	2,272	0	24	0	5	0	26,134	23
U. Massachusetts, Boston	222	28,676	712	720	8,212	428	1,794	1,979	3,878	0	912	10,041
Delaware State U.	223	28,488	327	158	17,175	219	3,472	0	3,874	0	512	2,751
SUNY, Downstate Health Sciences U.	224	28,276	0	0	28,276	0	0	0	0	0	0	0
Embry-Riddle Aeronautical U.	225	28,014	0	2,674	557	666	6,654	0	147	0	16,941	375
U. Wisconsin-Milwaukee	226	27,698	267	3,075	6,394	147	7,348	5,001	668	0	3,712	1,086
U. Missouri, Kansas City	227	27,638	1,378	114	11,957	0	1,199	856	28	0	11,587	519
Ohio U.	228	25,975	353	2,708	9,839	65	4,175	2,018	704	0	5,843	270
U. Nebraska, Omaha	229	25,294	3,702	143	7,063	420	1,120	155	2,104	9,291	1,029	267
Desert Research Institute	230	25,072	0	25,072	0	0	0	0	0	0	0	0
California State U., Long Beach	231	24,285	260	265	15,542	537	2,425	1,787	671	0	2,175	623
Marquette U.	232	23,110	868	0	10,670	275	1,914	282	0	0	8,350	751
Baylor U.	233	22,685	531	705	6,803	961	4,556	1,877	1,324	65	5,050	813
CUNY, Hunter C.	234	22,412	1,852	408	6,367	220	4,229	7,614	563	0	357	802
Southern Methodist U.	235	22,054	334	4,014	1,832	1,110	4,250	1,076	671	0	3,859	4,908
Eastern Virginia Medical School	236	21,658	0	0	21,658	0	0	0	0	0	0	0
American U.	237	21,538	200	3,319	796	322	3,682	965	4,410	2,933	0	4,911
Marshall U.	238	21,348	1,488	472	13,106	87	900	0	33	0	4,198	1,064
Rowan U.	239	21,291	559	395	5,947	149	2,289	1,094	6	0	10,466	386
U. Guam	240	20,986	0	7,551	11,682	165	566	0	77	0	0	945
Texas A&M U.-Corpus Christi	241	20,750	1,959	7,629	2,601	722	1,737	41	294	298	3,800	1,669
U.S. Military Academy	242	20,577	2,700	495	539	2,970	1,696	81	2,852	0	9,139	105
Jackson State U.	243	20,528	320	125	5,317	79	6,808	81	996	1,358	3,659	1,785
Tennessee State U.	244	20,520	524	0	12,509	0	450	154	0	0	3,954	2,929
Tuskegee U.	245	19,906	1,085	360	12,783	808	2,695	74	0	0	2,101	0
Meharry Medical C.	246	19,809	547	0	19,262	0	0	0	0	0	0	0
U. Puerto Rico, Rio Piedras	247	19,254	546	3,187	2,966	115	6,800	57	11	3,214	2,283	75
CUNY, Queens C.	248	19,019	220	532	12,352	202	2,380	2,053	876	0	0	404
Prairie View A&M U.	249	18,433	164	67	7,373	228	2,009	0	604	37	7,456	495
U. Colorado Denver	250	18,293	612	853	4,105	1,047	1,712	930	406	32	3,104	5,492
Southern Illinois U., Carbondale	251	18,282	333	511	11,702	116	1,945	239	362	399	817	1,858



Table 17. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by all federal R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Kent State U.	252	18,251	1,219	839	7,565	196	3,468	1,451	596	401	442	2,074
Louisiana State U., Health Sciences Center, Shreveport	253	18,040	0	0	18,040	0	0	0	0	0	0	0
South Dakota School of Mines and Technology	254	18,006	181	550	0	44	4,916	0	0	0	12,315	0
U. West Florida	255	17,226	4,933	0	347	0	309	0	214	0	383	11,040
Rutgers, State U. New Jersey, Newark	256	17,099	836	1,892	8,529	0	2,282	765	1,337	0	0	1,458
U. Puerto Rico, Mayaguez	257	17,027	185	3,266	720	4	2,440	28	29	0	9,437	918
CUNY, Graduate School of Public Health and Health Policy	258	16,788	0	0	16,788	0	0	0	0	0	0	0
California State U., Northridge	259	16,778	408	1,050	4,121	572	6,119	842	175	611	1,722	1,158
Texas Tech U., Health Sciences Center	260	16,721	0	0	16,687	0	0	0	0	0	0	34
U. Maryland Center for Environmental Science	261	16,689	56	10,667	5,639	0	26	0	0	0	0	301
San Francisco State U.	262	16,033	1,198	1,048	8,890	473	1,024	351	1,260	634	690	465
Wright State U.	263	15,597	3,903	76	8,095	6	709	531	0	56	2,181	40
Charles R. Drew U. of Medicine and Science	264	15,475	0	0	15,475	0	0	0	0	0	0	0
CUNY, Advanced Science Research Center	265	15,129	0	389	4,617	0	8,515	0	0	0	1,608	0
U. Massachusetts, Dartmouth	266	14,803	1,232	6,893	293	795	1,045	0	37	0	4,021	487
Texas A&M U.-Kingsville	267	14,728	337	0	9,182	0	116	51	25	0	3,176	1,841
Tennessee Technological U.	268	14,602	2,429	20	2,438	0	272	103	11	0	8,792	537
U. Hawaii, system office	269	14,534	783	13,722	0	0	0	0	29	0	0	0
Nova Southeastern U.	270	14,369	1,711	5,065	7,256	0	0	287	0	0	0	50
California Polytechnic State U., San Luis Obispo	271	14,234	444	1,407	4,875	2,453	1,319	96	268	15	1,854	1,503
U. Alaska, Anchorage	272	14,204	0	1,159	9,144	0	641	359	1,605	0	923	373
Northern Illinois U.	273	14,151	636	1,464	1,045	135	5,081	1,329	40	0	3,504	917
Montana Technological U.	274	13,993	0	3,851	1,213	0	64	0	0	0	8,865	0
Loma Linda U.	275	13,846	0	0	13,285	0	0	561	0	0	0	0
U. South Dakota	276	13,807	70	18	10,188	0	1,964	590	30	0	693	254
Oakland U.	277	13,684	1,291	0	6,585	69	3,068	345	36	0	1,882	408
Missouri State U.	278	13,473	0	101	987	0	119	185	3	0	12,078	0
U. of the Virgin Islands	279	13,422	0	4,840	6,290	311	1,189	0	0	0	792	0
Teachers C., Columbia U.	280	13,361	2,352	0	2,934	0	0	928	7,128	0	0	19
Clarkson U.	281	13,293	110	19	2,487	217	1,296	0	46	0	8,051	1,067
Illinois State U.	282	13,132	99	377	3,659	94	1,423	0	0	0	0	7,480
U. Akron	283	12,910	80	151	1,253	18	5,511	40	0	0	5,678	179
Xavier U. Louisiana	284	12,892	309	0	4,633	67	7,528	0	95	0	260	0
Creighton U.	285	12,815	674	0	9,961	262	1,242	179	232	0	0	265
Albany Medical C.	286	12,760	0	0	12,760	0	0	0	0	0	0	0
Alabama A&M U.	287	12,701	533	0	7,194	109	1,017	255	315	0	2,772	506



Table 17. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by all federal R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
North Carolina Central U.	288	12,241	0	751	58	0	3,027	0	394	0	8,011	0
Texas Southern U.	289	12,131	159	0	7,933	237	1,634	482	22	0	96	1,568
Western Michigan U. and Homer Stryker M.D. School of Medicine	290	11,928	308	1,404	2,749	20	922	304	191	41	4,276	1,713
Winston-Salem State U.	291	11,818	197	0	2,239	72	1,715	174	0	0	0	7,421
U. Maryland, Eastern Shore	292	11,752	0	3,294	8,232	0	5	0	0	0	201	20
Central Michigan U.	293	11,541	10	1,129	5,914	107	2,660	51	132	1,100	232	206
New York Medical C.	294	11,490	0	0	11,490	0	0	0	0	0	0	0
Chapman U.	295	11,392	288	66	7,588	35	1,264	1,104	518	0	332	197
East Tennessee State U.	296	11,338	0	0	9,749	0	441	12	112	0	0	1,024
Florida Gulf Coast U.	297	11,117	0	1,166	1,272	1	113	10	87	0	14	8,454
Miami U.	298	11,085	180	492	6,023	95	369	556	335	0	1,674	1,361
U. Tulsa	299	10,777	6,175	0	463	0	213	309	389	0	3,033	195
Florida Institute of Technology	300	10,759	1,928	2,237	1,530	136	1,378	0	0	322	3,214	14
California State U., San Marcos	301	10,758	685	176	1,702	28	439	381	50	4,265	1,399	1,633
California State Polytechnic U., Pomona	302	10,621	658	0	2,810	278	1,865	19	71	142	1,404	3,374
California State U., Sacramento	303	10,567	38	841	518	47	575	1	541	898	6,039	1,069
Louisiana Tech U.	304	10,178	421	0	1,893	274	560	106	45	0	5,956	923
U.S. Naval Academy	305	10,172	922	494	0	560	2,231	0	132	0	5,833	0
Alcorn State U.	306	10,148	0	0	7,655	0	0	0	2,100	0	393	0
Clark Atlanta U.	307	10,028	224	0	3,859	302	3,306	0	0	0	142	2,195
Villanova U.	308	9,754	163	571	2,129	122	1,872	187	4	0	3,935	771
Hampton U.	309	9,710	732	2,102	2,275	235	2,536	0	183	0	1,188	459
U. Arkansas, Little Rock	310	9,624	2,274	584	3,603	0	68	0	203	0	2,239	653
California State U., Los Angeles	311	9,598	393	317	1,453	0	3,386	4	547	0	2,199	1,299
U. North Carolina, Wilmington	312	9,547	253	2,242	4,620	41	969	308	644	0	172	298
California State U., East Bay	313	9,172	0	327	1,146	0	857	0	177	0	0	6,665
Northeast Ohio Medical U.	314	9,018	0	137	8,742	0	0	0	94	34	0	11
U. Minnesota, Duluth	315	8,999	215	549	6,599	118	394	426	221	0	442	35
Duquesne U.	316	8,989	0	0	7,523	178	650	0	69	0	220	349
Idaho State U.	317	8,964	288	1,752	2,724	117	797	53	708	0	2,342	183
Western Washington U.	318	8,949	457	2,442	509	174	2,083	62	425	1,197	326	1,274
South Carolina State U.	319	8,936	248	0	5,517	0	429	0	0	0	1,796	946
Texas Christian U.	320	8,818	0	967	513	25	837	172	0	6,164	8	132
MGH Institute of Health Professions	321	8,800	0	0	8,800	0	0	0	0	0	0	0
U. Texas Health Science Center, Tyler	322	8,444	0	0	8,444	0	0	0	0	0	0	0
Bowling Green State U.	323	8,204	163	1,347	2,213	13	1,164	109	1,496	0	59	1,640

Table 17. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by all federal R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
SUNY, C. of Environmental Science and Forestry	324	8,133	211	608	5,078	0	457	18	181	0	1,390	190
Rosalind Franklin U. of Medicine and Science	325	7,989	0	0	6,980	0	0	1,009	0	0	0	0
Kennesaw State U.	326	7,668	882	0	1,924	564	171	1	177	0	1,084	2,865
Langston U.	327	7,583	0	0	5,889	22	107	1,026	0	373	106	60
Montclair State U.	328	7,489	656	863	1,247	282	1,495	283	1,018	0	431	1,214
U. Wisconsin-Superior	329	7,452	0	6,968	3	0	0	0	0	0	4	477
CUNY, John Jay C. of Criminal Justice	330	7,340	0	0	349	119	317	1,337	1,222	0	0	3,996
Western U. of Health Sciences	331	7,285	0	0	4,354	0	0	0	0	0	0	2,931
Kentucky State U.	332	7,244	0	0	7,244	0	0	0	0	0	0	0
California State U., San Bernardino	333	6,998	1,929	177	959	558	1,279	1,470	328	0	0	298
Fordham U.	334	6,944	128	0	1,029	32	490	3,744	19	0	0	1,502
Ball State U.	335	6,935	29	0	4,746	39	697	489	121	0	0	814
U.S. Army War C.	336	6,793	i 0 i	0 i	0 i	0 i	0 i	0 i	6,793 i	0 i	0 i	0 i
Virginia State U.	337	6,684	0	6	3,808	199	173	433	0	0	1,183	882
U. of the District of Columbia	338	6,253	201	131	2,167	0	0	0	0	0	3,627	127
Fort Valley State U.	339	6,246	0	101	5,975	116	50	0	0	0	0	4
California State U., Fresno	340	6,203	462	98	2,694	940	553	0	156	0	1,113	187
Oklahoma State U., Center for Health Sciences	341	6,186	0	0	4,525	0	0	1,661	0	0	0	0
Sam Houston State U.	342	6,089	641	107	1,166	17	430	89	1,498	0	49	2,092
U. Colorado Colorado Springs	343	6,025	2,146	79	820	183	809	134	48	0	869	937
U. Hawaii, Hilo	344	6,015	411	1,730	3,495	0	0	0	198	181	0	0
U. New Orleans	345	5,950	1,289	738	227	260	761	0	614	0	635	1,426
Morehouse C.	346	5,903	1,049	0	465	31	2,276	96	24	1,643	0	319
U. New England	347	5,893	0	149	5,534	0	4	0	0	0	206	0
Southern U. and A&M C., Agricultural Research and Extension Center	348	5,876	0	0	5,876	0	0	0	0	0	0	0
Naval War C.	349	5,868	0	0	0	0	0	0	820	0	0	5,048
U. Michigan, Dearborn	350	5,742	0	0	227	267	117	33	47	0	4,855	196
California State U., Monterey Bay	351	5,717	1,102	1,391	2,312	233	540	0	20	0	0	119
CUNY, Brooklyn C.	352	5,714	241	61	1,651	124	1,972	1,482	82	0	0	101
C. Charleston	353	5,698	245	2,518	1,009	34	1,045	187	70	0	390	200
Wesleyan U.	354	5,676	0	672	1,022	566	2,059	814	0	122	0	421
U. North Florida	355	5,667	151	0	1,049	0	287	1,057	427	0	201	2,495
Towson U.	356	5,432	2,188	501	1,103	395	690	56	128	0	3	368
California State U., Fullerton	357	5,372	398	572	1,949	94	1,490	196	178	5	431	59
DePaul U.	358	5,341	530	783	2,547	87	0	0	112	0	64	1,218
U. Washington, Tacoma	359	5,319	358	2,994	760	119	0	0	32	0	262	794

Table 17. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by all federal R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields	
Gallaudet U.	360	5,300	1,551	0	1,489	60	210	194	1,437	0	0	359	
Southern U. and A&M C., Baton Rouge	361	5,298	254	0	784	184	953	0	159	0	2,964	0	
Salisbury U.	362	5,292	181	139	270	0	53	0	0	0	0	4,649	
U. Missouri, Saint Louis	363	5,273	65	0	2,931	20	419	280	441	0	328	789	
California State Polytechnic U., Humboldt	364	5,257	69	262	2,096	60	56	0	1,887	0	134	693	
Lincoln U., Jefferson City	365	5,189	i 0 i	313	i 4,478 i	0	0	i 0 i	21	i 377 i	0	0	i
Northwest Indian C.	366	5,172	i 0 i	72	i 606 i	0	0	i 0 i	0	i 0 i	274	i 4,220 i	
Providence C.	367	5,021	0	141	1,113	31	348	113	14	0	53	3,208	
California State U., Bakersfield	368	4,979	0	936	328	954	223	295	214	0	441	1,588	
Norfolk State U.	369	4,918	699	0	305	0	1,385	0	0	0	1,475	1,054	
Central State U.	370	4,749	0	238	3,806	70	356	0	0	45	234	0	
U. Arkansas, Pine Bluff	371	4,728	0	0	3,124	0	985	0	0	0	0	619	
Tarleton State U.	372	4,718	0	0	4,384	0	0	56	39	119	32	88	
Citadel Military C. South Carolina	373	4,699	2,816	9	25	0	113	21	0	0	397	1,318	
Dine C.	374	4,692	0	0	3,408	85	0	0	0	0	0	1,199	
CUNY, C. Staten Island	375	4,625	133	0	1,191	90	2,454	679	0	0	0	78	
U. Tennessee, Chattanooga	376	4,563	679	0	714	410	67	3	0	1,175	1,446	69	
Western Kentucky U.	377	4,511	0	460	1,749	0	1,109	558	138	0	93	404	
Barnard C.	378	4,334	195	217	1,538	62	1,100	926	95	0	0	201	
CUNY, Lehman C.	379	4,313	0	92	781	126	1,963	90	502	0	0	759	
Lawrence Technological U.	380	4,253	0	0	0	260	98	0	0	0	575	3,320	
U. San Diego	381	4,220	0	105	293	1,754	960	0	325	0	271	512	
Benedict C.	382	4,201	259	0	547	177	264	0	0	0	203	2,751	
Spelman C.	382	4,201	65	473	616	630	823	1,064	355	0	0	175	
Appalachian State U.	384	4,178	547	551	1,685	39	901	79	150	0	0	226	
U. Washington, Bothell	385	4,149	485	1,128	769	26	498	0	0	0	153	1,090	
Georgia Southern U.	386	4,075	179	312	1,063	74	178	0	694	0	1,281	294	
Purdue U., Northwest	387	4,036	962	0	93	0	183	260	0	88	2,172	278	
Southern Illinois U., Edwardsville	388	4,012	85	0	1,614	112	491	0	305	141	536	728	
Albany State U.	389	3,973	40	0	411	16	178	0	254	219	2,839	16	
Loyola Marymount U.	390	3,958	85	42	189	0	15	1,364	367	0	92	1,804	
Pennsylvania State U., Behrend	391	3,920	90	154	2,266	0	184	111	12	0	822	281	
Texas A&M U.-San Antonio	392	3,916	244	28	2,446	22	0	241	43	0	0	892	
Texas A&M International U.	393	3,903	0	61	737	146	236	370	727	415	477	734	
Sul Ross State U.	394	3,900	728	0	1,085	0	49	0	0	0	0	2,038	
Fort Lewis C.	395	3,866	0	3	1,177	47	652	0	0	696	424	867	

Table 17. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by all federal R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Detroit Mercy	396	3,797	457	0	2,674	0	30	0	0	0	524	112
West Virginia State U.	397	3,779	0	0	3,779	0	0	0	0	0	0	0
Sonoma State U.	398	3,755	0	2,496	461	423	0	136	6	16	71	146
Arkansas State U., Jonesboro	399	3,744	179	1	2,006	0	944	11	0	335	268	0
Bowie State U.	400	3,714	1,405	0	1,926	74	0	0	309	0	0	0
New York Institute of Technology	401	3,710	18	0	2,866	0	262	0	0	0	564	0
Texas Tech U., Health Sciences Center, El Paso	402	3,701	0	0	3,126	0	0	0	0	0	0	575
St. John's U., New York	403	3,685	71	0	2,507	0	332	608	0	0	0	167
Alfred U.	404	3,590	0	2	0	0	18	394	0	0	3,176	0
Western Illinois U.	405	3,574	i 0 i	0 i	2,486 i	0 i	115	i 0 i	192 i	0 i	781 i	0 i
Middle Tennessee State U.	406	3,542	93	174	1,771	172	727	57	104	0	138	306
Eastern Michigan U.	407	3,500	0	170	1,047	63	0	104	55	0	18	2,043
Santa Clara U.	408	3,494	0	0	417	10	520	313	51	0	1,490	693
James Madison U.	409	3,482	56	108	977	188	1,503	0	0	0	354	296
U. Baltimore	410	3,471	408	0	0	0	0	46	987	0	0	2,030
Tougaloo C.	411	3,462	112	202	2,244	0	685	0	219	0	0	0
National Defense U.	412	3,459	59	0	500	0	0	0	2,900	0	0	0
Smith C.	412	3,459	391	127	1,576	477	448	98	0	0	132	210
Alabama State U.	414	3,408	0	0	3,081	327	0	0	0	0	0	0
Seton Hall U.	415	3,392	0	0	2,190	3	1,199	0	0	0	0	0
New Mexico Highlands U.	416	3,348	651	0	1,860	0	305	94	0	0	0	438
Pacific U.	417	3,329	0	0	1,372	0	301	0	0	0	0	1,656
Hope C.	418	3,317	5	122	2,575	0	251	0	0	0	364	0
Pennsylvania State U., Harrisburg	419	3,305	16	0	1,701	8	0	35	99	0	344	1,102
U. North Carolina, Asheville	420	3,295	23	560	1,188	0	990	0	0	0	0	534
Fayetteville State U.	421	3,256	825	0	1,074	0	903	182	136	0	0	136
Colby C.	422	3,236	148	156	2,359	83	324	0	130	0	0	36
Clark U.	423	3,231	0	631	1,415	35	526	0	624	0	0	0
Midwestern U.	424	3,227	0	0	3,227	0	0	0	0	0	0	0
U. Northern Iowa	425	3,220	27	19	288	3	968	0	1,802	1	0	112
Carleton C.	426	3,167	132 i	1,841 i	144 i	89 i	405	i 344 i	200 i	0 i	1 i	11 i
CUNY, Graduate Center	427	3,157	36	19	55	50	636	340	470	314	491	746
Middlebury C.	428	3,135	74	841	854	63	797	103	109	0	0	294
Kean U.	429	3,130	737	16	821	0	50	954	298	18	0	236
Amherst C.	430	3,091	128	469	711	286	1,466	0	21	0	0	10
Texas Woman's U.	431	3,026	53	0	2,163	13	53	359	33	0	0	352

Table 17. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by all federal R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Hofstra U.	432	2,990	1,060	60	438	276	95	154	0	0	213	694
California State U., Chico	433	2,964	74	36	654	11	514	0	437	0	444	794
Winthrop U.	434	2,894	91	0	133	0	385	0	0	0	0	2,285
Wellesley C.	435	2,890	260	311	630	196	681	257	224	0	33	298
Long Island U.	436	2,879	44	0	1,531	0	153	74	47	0	0	1,030
U. Southern Maine	437	2,862	18	4	2,106	4	188	0	408	16	118	0
Northeastern Illinois U.	438	2,844	486	16	1,526	133	0	0	0	0	0	683
U. New Haven	439	2,836	787	329	393	0	35	169	671	0	452	0
Saginaw Valley State U.	440	2,818	i 306 i	0 i	1,824 i	0 i	0 i	0 i	206 i	0 i	0 i	482 i
Rutgers, State U. New Jersey, Camden	441	2,772	2,434	0	0	0	0	0	129	0	0	209
National U.	442	2,725	93	0	92	0	0	0	0	0	0	2,540
Chicago State U.	443	2,701	194	0	1,571	0	886	0	50	0	0	0
Bucknell U.	444	2,692	117	9	1,042	111	808	0	0	3	524	78
Fisk U.	445	2,681	942	0	946	52	741	0	0	0	0	0
California State U., Dominguez Hills	446	2,674	451	64	387	16	843	254	153	0	0	506
Keck Graduate Institute	447	2,644	0	0	2,517	0	0	0	0	0	127	0
SUNY, C. of Optometry	448	2,613	0	0	2,613	0	0	0	0	0	0	0
Lamar U.	449	2,572	68	0	185	0	327	0	0	0	1,754	238
Youngstown State U.	450	2,491	123	0	227	127	95	86	51	0	1,782	0
Troy U.	451	2,441	0	161	72	0	2,056	0	0	0	37	115
Murray State U.	452	2,428	0	252	1,848	146	182	0	0	0	0	0
Texas A&M U.-Commerce	453	2,412	668	0	286	122	625	3	0	0	0	708
Austin Peay State U.	454	2,386	0	60	2,167	0	153	0	3	0	3	0
Reed C.	455	2,377	9	0	1,091	100	968	132	71	0	0	6
Savannah State U.	456	2,376	43	841	396	0	0	0	18	460	610	8
Saint Joseph's U.	457	2,365	0	0	1,336	0	247	11	0	0	0	771
Yeshiva U.	458	2,348	0	0	2,088	0	260	0	0	0	0	0
Coastal Carolina U.	459	2,341	278	1,437	129	0	128	0	14	0	231	124
Black Hills State U.	460	2,304	254	0	1,337	0	192	0	0	0	0	521
Trinity U.	460	2,304	54	195	763	42	598	301	102	51	192	6
Northern Kentucky U.	462	2,289	34	0	1,086	140	283	740	0	0	0	6
CUNY, New York City C. of Technology	463	2,260	147	23	306	247	661	0	0	0	662	214
Roger Williams U.	464	2,244	0	384	873	0	121	0	9	0	223	634
National Louis U.	465	2,231	0	0	0	0	0	0	229	0	0	2,002
Christopher Newport U.	466	2,224	0	0	146	238	1,196	16	0	0	628	0
Vassar C.	467	2,205	0	0	535	317	276	188	4	885	0	0

Table 17. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by all federal R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Toyota Technological Institute, Chicago	468	2,186	2,186	0	0	0	0	0	0	0	0	0
SUNY, Oswego	469	2,176	117	745	550	20	296	330	0	0	118	0
CUNY, Baruch C.	470	2,168	0	51	1,094	570	0	210	3	0	0	240
Dakota State U.	471	2,111	2,111	0	0	0	0	0	0	0	0	0
Hawaii Pacific U.	472	2,083	216	827	799	0	189	0	0	0	47	5
U. Louisiana, Monroe	472	2,083	0	890	845	0	190	0	158	0	0	0
U. Central del Caribe	474	2,068	0	0	2,068	0	0	0	0	0	0	0
Pace U.	475	2,067	1,028	0	256	0	19	92	0	0	480	192
CUNY, system office	476	2,051	0	0	122	0	0	0	0	108	0	1,821
U. Wisconsin-Stevens Point	477	2,048	0	138	1,757	0	145	0	0	0	8	0
Grand Valley State U.	478	2,035	i 72 i	784 i	851 i	0 i	285 i	43 i	0 i	0 i	0 i	0 i
Harvey Mudd C.	479	2,012	385	0	292	177	182	0	0	142	834	0
West Texas A&M U.	480	1,990	309	134	582	0	79	0	0	0	565	321
Nevada State U.	481	1,989	0	0	1,015	0	0	377	0	0	0	597
U. Texas, Tyler	482	1,976	0	0	778	106	0	0	24	0	682	386
U. Houston-Downtown	483	1,975	107	0	58	38	150	0	140	563	66	853
Haverford C.	484	1,955	83	42	809	93	579	194	0	0	0	155
U. Central Oklahoma	485	1,950	92	0	880	0	0	0	0	88	0	890
New England C. of Optometry	486	1,935	0	0	1,935	0	0	0	0	0	0	0
Bowdoin C.	487	1,928	24	210	602	25	516	123	12	0	0	416
Franklin and Marshall C.	488	1,924	22	0	468	69	995	102	268	0	0	0
U. Wisconsin-Oshkosh	489	1,904	0	2	1,000	0	85	0	127	0	138	552
U. of Health Sciences and Pharmacy in St. Louis	490	1,867	0	0	1,867	0	0	0	0	0	0	0
Swarthmore C.	491	1,866	139	0	935	89	450	41	125	0	33	54
Virginia Military Institute	492	1,855	1,743	0	0	0	67	0	0	0	45	0
Lake Superior State U.	493	1,826	0	0	1,226	0	592	0	0	0	8	0
U. Central Arkansas	494	1,823	0	62	886	0	381	0	0	0	74	420
West Chester U. Pennsylvania	495	1,822	0	20	466	0	773	234	0	0	0	329
Claflin U.	496	1,816	118	65	999	0	548	0	54	0	32	0
Dillard U.	497	1,792	100	50	514	93	406	111	17	0	101	400
C. New Jersey	498	1,779	60	0	586	0	552	0	74	0	446	61
U. Puerto Rico, Humacao	499	1,759	0	135	69	0	1,555	0	0	0	0	0
United Tribes Technical C.	500	1,757	17	575	653	0	40	0	200	0	100	172
U. Wisconsin-Eau Claire	501	1,740	0	194	337	69	814	289	37	0	0	0
Davidson C.	502	1,738	0	0	963	65	536	0	66	0	0	108
Eastern Washington U.	503	1,722	0	564	534	0	113	0	342	0	165	4

Table 17. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by all federal R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. San Francisco	504	1,709	187	229	1,213	0	23	0	3	0	0	54
California State U., Stanislaus	505	1,705	274	0	445	101	318	203	83	150	0	131
Central Washington U.	506	1,693	107	1,249	71	125	70	0	43	0	0	28
Southeastern Louisiana U.	507	1,688	126	0	988	0	189	191	0	0	33	161
Furman U.	508	1,685	20	42	366	32	1,075	0	148	2	0	0
California State U., Channel Islands	509	1,672	127	0	560	359	55	0	30	541	0	0
U. Ana G. Mendez, Gurabo	510	1,660	0	0	0	0	0	0	0	0	0	1,660
Western Carolina U.	511	1,651	0	322	353	53	217	0	147	0	233	326
U. Nebraska, Kearney	512	1,645	0	0	1,000	0	533	14	0	0	0	98
U. Houston-Clear Lake	513	1,635	13	612	457	0	27	71	37	3	269	146
Norwich U.	514	1,611	0	65	1,134	0	0	401	0	11	0	0
Skidmore C.	515	1,605	0	258	715	34	277	176	67	0	0	78
U. Hartford	516	1,601	0	0	274	45	11	15	265	0	991	0
Marian U., Indianapolis	517	1,598	0	0	714	8	0	0	0	0	0	876
Lafayette C.	518	1,557	171	94	240	119	295	135	0	0	463	40
U. Richmond	519	1,552	0	15	698	39	437	131	14	0	0	218
Oregon Institute of Technology	520	1,548	i 132	i 185	i 730	i 67	i 0	i 49	i 0	i 0	i 385	i 0
Williams C.	521	1,537	i 56	i 116	i 734	i 56	i 326	i 68	i 36	i 0	i 0	i 145
Indiana U. Pennsylvania	522	1,536	178	75	989	0	163	0	131	0	0	0
U. of the Pacific	523	1,510	0	150	1,263	0	88	0	0	0	9	0
Colgate U.	524	1,509	24	667	391	139	288	0	0	0	0	0
U. Alaska, Southeast	525	1,492	0	380	542	0	206	0	0	285	0	79
U. Hawaii, Maui C.	526	1,443	98	256	757	0	0	0	0	0	0	332
SUNY, Buffalo State U.	527	1,419	38	1,108	69	19	104	22	59	0	0	0
Mount Holyoke C.	528	1,394	180	0	454	1	532	227	0	0	0	0
U. of St. Thomas (MN)	529	1,391	0	19	59	75	12	0	0	0	1,159	67
Seattle U.	530	1,389	45	0	488	136	133	0	0	0	176	411
Merrimack C.	531	1,339	113	0	1,091	48	0	0	55	0	32	0
Sacred Heart U.	532	1,337	53	149	83	45	43	0	231	0	0	733
Southern Utah U.	533	1,331	39	709	99	0	135	0	294	10	42	3
U. Northern Colorado	534	1,325	0	216	475	13	61	104	210	0	0	246
CUNY, York C.	535	1,318	110	264	245	317	357	25	0	0	0	0
Utah Valley U.	536	1,306	59	100	238	15	335	0	9	269	275	6
U. Texas of the Permian Basin	537	1,294	0	141	508	0	49	10	58	271	113	144
Union C., Schenectady	538	1,288	0	579	0	20	344	0	0	0	345	0
Occidental C.	539	1,285	46	109	256	29	282	53	409	101	0	0



Table 17. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by all federal R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. of the Incarnate Word	539	1,285	27	13	856	34	304	0	0	0	51	0
U. Puerto Rico, Cayey	541	1,259	0	16	150	0	843	0	162	88	0	0
Marymount U.	542	1,242	334	0	251	0	0	0	0	0	182	475
Claremont McKenna C.	543	1,208	131	114	304	129	69	461	0	0	0	0
U. Virginia's C. Wise	544	1,207	1,053	29	110	0	15	0	0	0	0	0
Pittsburg State U.	545	1,199	0	0	224	0	20	0	0	0	955	0
Alaska Pacific U.	546	1,183	0	1,109	22	0	0	0	0	0	0	52
U. South Carolina, Aiken	546	1,183	252	0	764	0	56	0	0	31	0	80
Southern Connecticut State U.	548	1,159	135	46	418	0	324	38	0	55	0	143
Bryn Mawr C.	549	1,152	57	70	597	52	325	0	31	0	0	20
La Sierra U.	550	1,148	i 0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	1,148 i
Monmouth U.	551	1,143	0	1,050	76	0	0	0	17	0	0	0
Oberlin C.	552	1,142	127	36	511	48	381	35	4	0	0	0
Manhattan C.	553	1,131	0	0	0	181	0	0	0	0	282	668
U. Wisconsin-Green Bay	553	1,131	45 i	65 i	604 i	9 i	86 i	21 i	26 i	0 i	233 i	42 i
U. Scranton	555	1,109	3	638	95	21	306	0	0	0	0	46
Ferris State U.	556	1,103	0	0	825	127	131	0	0	0	20	0
U. Puget Sound	557	1,102	0	223	424	0	412	0	0	0	0	43
Pomona C.	558	1,083	97	108	331	340	207	0	0	0	0	0
Colorado State U., Pueblo	559	1,072	i 139 i	0 i	928 i	0 i	0 i	0 i	5 i	0 i	0 i	0 i
East Stroudsburg U. Pennsylvania	560	1,071	0	0	112	0	0	0	0	0	0	959
Kenyon C.	561	1,069	0	0	563	31	475	0	0	0	0	0
SUNY, Geneseo	562	1,062	0	15	179	0	868	0	0	0	0	0
Claremont Graduate U.	563	1,061	0	0	33	138	0	6	657	0	0	227
John Carroll U.	564	1,052	0	0	366	0	58	183	24	0	0	421
New School	564	1,052	0	0	63	0	0	0	629	323	15	22
Lewis and Clark C.	566	1,051	0	181	649	41	180	0	0	0	0	0
U. Wisconsin-La Crosse	566	1,051	14	0	560	0	165	0	306	0	0	6
Aaniiih Nakoda C.	568	1,045	0	413	632	0	0	0	0	0	0	0
Bentley U.	569	1,037	69	144	244	91	0	0	1	88	151	249
Morehead State U.	570	1,029	0	0	361	0	0	0	0	0	668	0
Butler U.	571	1,004	0	0	810	0	172	0	22	0	0	0
Minnesota State U., Mankato	572	977	0	210	321	31	16	0	30	0	359	10
Arcadia U.	573	955	0	0	13	0	0	0	0	0	0	942
Stephen F. Austin State U.	574	951	0	16	727	175	0	0	29	0	0	4
Ursinus C.	575	940	22	0	642	34	241	1	0	0	0	0

Table 17. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by all federal R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Florida Polytechnic U.	576	939	450	0	1	0	82	0	0	0	396	10
Juniata C.	576	939	0	82	730	0	68	0	21	0	0	38
Drake U.	578	936	0	0	120	56	134	0	0	0	0	626
Touro U., California	579	923	0	0	923	0	0	0	0	0	0	0
Johnson C. Smith U.	580	915	350	103	94	0	107	0	12	0	0	249
National U. of Natural Medicine	581	910	i 0 i	0	i 910 i	0	0	i 0 i	0	i 0 i	0	i 0 i
Bates C.	582	909	0	96	466	21	280	21	25	0	0	0
Erikson Institute	583	904	0	0	0	0	0	0	0	0	0	904
SUNY, C. Plattsburgh	584	893	0	637	0	0	256	0	0	0	0	0
SUNY, C. Brockport	585	889	0	0	395	0	93	0	401	0	0	0
Eastern Kentucky U.	586	871	0	0	556	0	255	0	0	0	30	30
Macalester C.	587	859	165	200	64	46	383	0	0	0	0	1
Indiana State U.	588	838	0	59	348	0	0	0	0	0	41	390
Pepperdine U.	589	827	0	0	431	0	0	3	30	0	0	363
Weber State U.	589	827	75	200	90	65	0	0	0	0	217	180
Loyola U., Maryland	591	820	0	0	165	0	108	157	0	0	0	390
St. Cloud State U.	592	810	0	36	47	0	0	0	258	0	0	469
Plymouth State U.	593	805	0	175	431	0	0	0	165	0	0	34
SUNY, Cobleskill	593	805	0	0	293	0	0	0	0	0	512	0
Calvin U.	595	803	54	0	340	47	293	0	0	0	69	0
Valparaiso U.	596	799	0	36	224	0	492	0	0	0	47	0
Polytechnic U. Puerto Rico	597	796	796	0	0	0	0	0	0	0	0	0
St. Olaf C.	597	796	0	105	639	0	41	8	0	0	0	3
Hobart and William Smith Colleges	599	767	0	196	188	0	334	0	0	49	0	0
Northern Michigan U.	600	752	0	123	359	0	0	88	0	0	34	148
Southern Oregon U.	601	749	25	0	0	0	226	0	498	0	0	0
Keene State C.	602	745	50	0	414	4	115	15	0	0	0	147
U. Illinois, Springfield	603	712	41	0	22	0	0	0	75	0	0	574
Dickinson C.	604	707	62	227	254	0	0	0	164	0	0	0
SUNY, Polytechnic Institute	604	707	55	0	312	0	26	0	0	0	314	0
Robert Morris U.	606	706	190	0	0	0	0	0	0	0	495	21
Suffolk U.	607	702	0	20	0	0	26	45	0	0	0	611
Stockton U.	608	701	0	104	304	0	59	0	234	0	0	0
Edward Via C. of Osteopathic Medicine	609	686	0	0	686	0	0	0	0	0	0	0
St. Bonaventure U.	610	646	223	0	183	0	100	0	0	0	0	140
Elizabeth City State U.	611	642	0	0	488	0	0	0	0	0	0	154

Table 17. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by all federal R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields	
Andrews U.	612	638	0	0	0	0	638	0	0	0	0	0	
Grinnell C.	613	634	167	49	28	0	273	0	4	0	0	113	
Hamilton C.	614	633	38	104	38	0	253	0	111	0	0	89	
U. Michigan, Flint	615	627	313	0	15	0	0	0	0	0	0	299	
Denison U.	616	622	i 28 i	41	i 301 i	22	i 118 i	26	i 20 i	0	i 0 i	66	i
Northwestern State U. Louisiana	617	618	0	0	0	0	0	0	0	618	0	0	
U. South Carolina, Beaufort	618	615	0	0	219	0	0	0	147	0	0	249	
Roosevelt U.	619	614	0	0	509	0	0	0	105	0	0	0	
U. of Mary Washington	620	610	190	0	127	0	0	0	0	0	0	293	
Franklin W. Olin C. of Engineering	621	595	0	0	0	0	0	0	0	0	595	0	
U. North Georgia	622	589	17	257	99	13	77	0	108	0	18	0	
Western New England U.	623	579	i 82 i	0	i 89 i	38	i 0 i	0	i 0 i	0	i 370 i	0	i
Albany C. of Pharmacy and Health Sciences	624	578	0	0	577	0	0	0	0	0	0	1	
U. Wisconsin-River Falls	625	575	0	92	420	0	63	0	0	0	0	0	
Milwaukee School of Engineering	626	573	35	0	0	0	0	0	0	0	538	0	
U. South Carolina Upstate	627	566	14	0	0	0	0	0	0	0	445	107	
High Point U.	628	565	i 25 i	0	i 363 i	10	i 45 i	7	i 8 i	0	i 97 i	10	i
Midwestern State U.	628	565	0	42	523	0	0	0	0	0	0	0	
Seattle Pacific U.	630	564	0	0	8	0	551	5	0	0	0	0	
Gettysburg C.	631	562	0	0	65	0	149	0	348	0	0	0	
Nicholls State U.	632	558	0	96	459	0	3	0	0	0	0	0	
Liberty U.	633	548	209	0	58	0	0	0	0	0	281	0	
Trinity C., Hartford	634	545	5	0	252	0	109	147	2	0	0	30	
Berry C.	635	534	0	0	0	267	0	0	267	0	0	0	
St. Catherine U.	636	517	0	0	442	0	0	0	75	0	0	0	
Palmer C. of Chiropractic, Davenport	637	500	0	0	500	0	0	0	0	0	0	0	
Elon U.	638	480	0	0	174	0	51	141	1	0	0	113	
Connecticut C.	639	466	88	0	131	0	113	67	30	7	0	30	
Pennsylvania State U., Altoona	640	448	0	0	94	0	0	0	0	0	342	12	
Auburn U., Montgomery	641	446	27	0	127	82	0	0	0	0	0	210	
Willamette U.	642	416	26	205	128	0	0	57	0	0	0	0	
Des Moines U.	643	402	0	4	203	0	17	0	74	0	5	99	
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	644	392	0	0	392	0	0	0	0	0	0	0	
C. Wooster	645	390	22	87	17	26	183	0	55	0	0	0	
Colorado C.	646	389	62	94	90	65	78	0	0	0	0	0	
Eckerd C.	647	369	0	227	62	0	0	0	80	0	0	0	

Table 17. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by all federal R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Bryant U.	648	358	0	51	165	142	0	0	0	0	0	0
Babson C.	649	351	0	0	0	0	0	0	0	0	0	351
Rhode Island School of Design	650	342	8	23	171	0	0	0	0	0	140	0
West Virginia School of Osteopathic Medicine	650	342	0	0	342	0	0	0	0	0	0	0
Abilene Christian U.	652	328	0	0	0	0	303	0	0	0	0	25
Whitman C.	653	323	0	117	50	0	140	0	16	0	0	0
New C. Florida	654	296	87	108	0	13	0	0	88	0	0	0
Purdue U., Fort Wayne	655	265	0	0	39	46	152	0	0	0	27	1
Indiana U., South Bend	656	250	125	0	0	0	105	0	0	0	0	20
Azusa Pacific U.	657	245	0	0	0	32	4	127	44	0	38	0
Lipscomb U.	657	245	0	0	197	0	0	0	0	0	48	0
Fairfield U.	659	241	91	9	4	84	8	0	0	0	45	0
Heidelberg U.	659	241	0	241	0	0	0	0	0	0	0	0
Philadelphia C. of Osteopathic Medicine	661	225	0	0	225	0	0	0	0	0	0	0
Eastern Connecticut State U.	662	197	4	0	30	19	0	0	9	0	0	135
Wheaton C., Wheaton	663	182	0	0	80	0	102	0	0	0	0	0
California Lutheran U.	664	181	0	0	84	0	22	0	0	0	0	75
St. Edward's U.	665	141	0	48	93	0	0	0	0	0	0	0
St. John Fisher U.	666	130	0	0	76	0	54	0	0	0	0	0
Radford U.	667	84	0	0	84	0	0	0	0	0	0	0
Carthage C.	668	76	0	16	0	0	32	0	0	0	28	0
Roseman U. of Health Sciences	669	63	0	0	63	0	0	0	0	0	0	0
C. of Saint Benedict	670	61	i 3	i 0	i 32	i 2	i 12	i 3	i 2	i 0	i 0	i 7
Pratt Institute	671	53	i 0	i 0	i 0	i 0	i 0	i 0	i 0	i 0	i 0	i 53
U. North Texas, Dallas	672	26	0	0	0	0	0	25	1	0	0	0
Lincoln Memorial U.	673	6	0	0	0	0	0	0	0	0	0	6
Illinois C. of Optometry	674	5	0	0	5	0	0	0	0	0	0	0

i = imputed.

nec = not elsewhere classified; S&E = science and engineering.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$2,478,980 thousand in federally financed R&D expenditures in FY 2024.

<sup>b</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>c</sup> The University of Oklahoma includes expenditures from the University of Oklahoma, Tulsa and University of Oklahoma, Norman and Health Science Center campuses. Due to a reorganization, the campuses began reporting as one unit in FY 2024.

**Note(s):**  
Institutions reporting zero federal expenditures for FY 2024 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 5](#). This table includes only institutions reporting \$1 million or more in total R&D expenditures in 2023. Institutions reporting less than \$1 million in total R&D expenditures in 2023 completed a shorter version of the survey form in FY 2024, and that form did not collect federally financed R&D expenditures by source and detailed field.

**Source(s):**  
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2024.

Table 18. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by all federal R&D expenditures, by federal agency: FY 2024

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures		DOD	DOE	HHS	NASA	NSF	USDA	Other <sup>a</sup>
All institutions	-	64,639,941		10,173,898	2,941,393	35,500,073	2,368,711	7,173,758	1,976,398	4,505,710
Johns Hopkins U. <sup>b</sup>	1	3,618,064		1,835,055	15,165	984,943	523,768	45,761	4,849	208,523
Georgia Institute of Technology	2	1,213,430		921,587	46,255	75,932	26,071	89,507	2,648	51,430
U. Michigan, Ann Arbor	3	1,165,494		89,228	56,889	810,530	30,952	123,526	1,506	52,863
U. California, San Diego	4	1,151,518		143,553	40,029	721,662	16,732	161,707	4,171	63,664
U. Washington, Seattle	5	1,135,734		143,424	39,844	701,279	21,359	147,697	7,414	74,717
Columbia U. in the City of New York	6	1,076,805		71,479	30,415	823,187	26,693	115,541	1,516	7,974
Duke U.	7	1,039,631		52,279	22,967	894,209	2,868	52,530	1,136	13,642
U. California, San Francisco	8	1,036,633		51,043	641	946,468	391	11,775	1,216	25,099
U. Pennsylvania	9	1,018,602		63,045	17,919	839,809	2,444	72,901	2,196	20,288
Stanford U.	10	1,012,767		99,397	29,679	766,409	24,102	82,146	815	10,219
U. California, Los Angeles	11	980,183		69,408	49,558	719,417	31,631	80,967	1,814	27,388
U. Pittsburgh, Pittsburgh	12	967,978		87,686	12,988	809,001	3,916	38,375	680	15,332
U. North Carolina, Chapel Hill	13	949,913		29,969	14,010	767,117	2,849	46,186	2,638	87,144
U. Wisconsin-Madison	14	930,647		57,946	94,406	530,600	17,079	129,052	46,018	55,546
U. Maryland <sup>c</sup>	15	922,237		180,635	34,843	403,449	92,210	71,178	34,542	105,380
Pennsylvania State U., University Park and Hershey Medical Center	16	858,666		397,029	44,352	205,076	20,162	85,850	38,507	67,690
Yale U.	17	845,058		40,359	11,361	737,156	2,808	40,720	1,713	10,941
Washington U., Saint Louis	18	821,852		24,734	11,303	743,957	13,106	25,025	388	3,339
Vanderbilt U. and Vanderbilt U. Medical Center	19	809,693		43,771	10,490	696,253	3,305	33,854	372	21,648
New York U.	20	805,148		25,400	3,957	705,582	2,066	45,156	490	22,497
Cornell U.	21	792,078		68,999	29,366	473,940	12,030	137,088	50,540	20,115
Ohio State U.	22	774,210		74,860	30,238	471,118	8,871	81,383	39,303	68,437
U. Minnesota, Twin Cities	23	748,229		45,551	29,845	513,267	11,585	82,504	47,182	18,295
Emory U.	24	744,597		17,859	3,803	698,837	1,109	12,762	2,891	7,336
U. Southern California	25	739,426		137,106	9,874	509,191	3,503	61,278	133	18,341
Northwestern U.	26	735,735		64,812	32,757	560,300	4,555	61,693	349	11,269
Icahn School of Medicine at Mount Sinai	27	693,444		24,094	122	665,988	319	1,249	148	1,524
U. Texas, Austin	28	690,835		248,592	84,183	127,284	23,447	176,446	379	30,504
Harvard U.	29	672,947		53,130	18,691	519,677	7,651	54,738	335	18,725
Massachusetts Institute of Technology	30	595,053		135,137	93,255	184,931	38,717	119,178	360	23,475
Texas A&M U., College Station and Health Science Center	31	582,674		99,845	50,575	128,235	9,960	144,701	67,905	81,453
U. Florida	32	581,252		55,512	21,009	343,215	12,379	62,871	51,949	34,317
U. Colorado Boulder	33	567,693		46,717	39,399	76,678	171,388	123,455	2,258	107,798
U. California, Berkeley	34	518,011		47,172	55,107	176,362	97,901	100,722	5,781	34,966
U. Illinois, Urbana-Champaign	35	511,574		78,009	121,838	97,530	14,134	125,665	33,496	40,902
U. California, Davis	36	505,442		29,362	22,183	290,744	7,211	47,564	63,368	45,010
U. Chicago	37	504,337		28,264	23,612	350,122	13,126	78,244	607	10,362

Table 18. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by all federal R&D expenditures, by federal agency: FY 2024

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures		DOD	DOE	HHS	NASA	NSF	USDA	Other <sup>a</sup>
U. Colorado Anschutz Medical Campus	38	498,397		14,999	0	471,999	625	3,876	9	6,889
U. Alabama, Birmingham	39	498,148		19,613	3,559	450,530	4,346	8,687	272	11,141
Uniformed Services U. of the Health Sciences	40	482,223		469,911	0	12,312	0	0	0	0
Michigan State U.	41	474,762		24,202	157,791	133,190	5,001	67,810	43,072	43,696
U. Arizona	42	471,394		43,955	14,283	228,325	65,513	59,424	17,105	42,789
Case Western Reserve U.	43	466,362		18,230	11,443	414,853	3,967	11,980	859	5,030
Indiana U., Bloomington	44	456,845		25,875	7,621	367,079	966	39,540	1,221	14,543
Baylor C. of Medicine	45	453,738		16,982	13	403,269	12,193	5,642	14,347	1,292
U. Utah	46	453,025		25,504	58,607	306,656	4,984	51,034	1,337	4,903
Purdue U., West Lafayette	47	451,802		123,426	38,261	95,351	14,493	90,801	44,823	44,647
Boston U.	48	421,753		22,813	7,321	326,409	15,126	35,097	346	14,641
U. Cincinnati	49	411,205		19,480	4,648	359,576	1,406	15,306	206	10,583
Rutgers, State U. New Jersey, New Brunswick	50	408,320		21,569	9,480	282,727	4,025	46,902	10,468	33,149
Arizona State U.	51	396,431		52,203	27,211	85,594	47,126	100,129	3,790	80,378
U. Virginia, Charlottesville	52	394,731		32,458	15,888	265,575	6,068	45,446	1,089	28,207
Oregon Health and Science U.	53	389,585		10,174	116	376,893	40	1,691	7	664
U. California, Irvine	54	384,504		22,162	27,058	254,737	6,627	58,728	273	14,919
U. Rochester	55	376,088		15,513	110,979	223,837	1,717	21,951	0	2,091
Utah State U.	56	364,880		205,544	4,978	12,289	48,472	17,737	12,294	63,566
U. Texas Southwestern Medical Center	57	359,693		16,470	404	338,429	1,222	2,408	0	760
U. Iowa	58	338,639		14,524	5,650	239,266	47,381	14,104	1,184	16,530
U. Miami	59	322,331		28,872	1,879	233,671	5,241	18,718	357	33,593
North Carolina State U.	60	316,076		49,387	31,378	60,612	2,982	71,915	59,178	40,624
Virginia Polytechnic Institute and State U.	61	308,282		79,525	19,596	68,891	6,234	64,465	28,954	40,617
U. Nebraska, Lincoln and Medical Center	62	301,070		47,719	12,644	144,903	1,359	40,321	33,116	21,008
Colorado State U., Fort Collins	63	300,857		16,285	25,576	72,470	14,259	40,100	67,472	64,695
U. Illinois, Chicago	64	299,986		15,101	16,142	226,878	636	30,088	90	11,051
California Institute of Technology	65	298,754		31,906	26,393	78,978	62,042	93,466	0	5,969
SUNY, U. Buffalo	66	284,562		69,063	9,894	148,565	3,406	37,143	17	16,474
U. Texas M. D. Anderson Cancer Center	67	282,431		21,074	296	259,767	336	761	34	163
Carnegie Mellon U.	68	280,169		107,223	16,014	49,855	5,393	78,925	2,975	19,784
U. Kentucky	69	273,724		14,728	11,419	197,850	2,490	21,012	14,725	11,500
U. South Florida	70	272,483		23,685	2,618	157,181	3,338	20,726	255	64,680
Scripps Research Institute	71	272,039		3,621	370	263,812	1,079	2,329	0	828
U. Georgia	72	255,117		9,689	19,948	110,541	1,072	35,109	51,820	26,938
Brown U.	73	253,661		20,000	8,034	179,085	8,059	34,498	219	3,766
U. Connecticut	74	253,110		24,074	11,805	133,660	3,842	37,650	13,460	28,619
Princeton U.	75	250,294		25,152	32,667	72,717	23,194	79,252	637	16,675



Table 18. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by all federal R&D expenditures, by federal agency: FY 2024

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures		DOD		DOE		HHS		NASA		NSF		USDA		Other <sup>a</sup>	
Woods Hole Oceanographic Institution	76	250,140		40,023		5,325		2,105		6,946		165,008		12		30,721	
U. Kansas	77	245,710		14,968		5,754		150,431		2,341		31,478		1,081		39,657	
Oregon State U.	78	244,264		22,891		23,703		32,175		8,214		66,129		49,867		41,285	
Albert Einstein C. of Medicine	79	242,594		9,821		56		232,611		0		85		21		0	
U. Missouri, Columbia	80	241,938		14,563		3,923		123,428		1,902		24,126		35,853		38,143	
U. Dayton	81	241,753		228,987		1,059		1,722		927		2,023		157		6,878	
U. Hawaii, Manoa	82	237,482		63,110		5,459		58,658		17,342		43,808		13,051		36,054	
U. Massachusetts, Medical School	83	231,375		6,472		0		223,195		0		812		238		658	
U. Delaware	84	229,392		35,988		14,577		60,636		6,370		43,638		8,139		60,044	
U. Texas Health Science Center, Houston	85	227,118		9,958		0		206,477		701		2,010		2,885		5,087	
U. Oklahoma <sup>d</sup>	86	225,360		23,461		12,310		102,912		16,135		26,052		1,004		43,486	
Wake Forest U.	87	224,282		9,520		399		203,497		595		3,360		505		6,406	
U. New Mexico	88	221,867		31,799		18,088		126,299		2,704		31,600		1,544		9,833	
Washington State U.	89	221,721		10,033		21,966		68,446		1,089		20,422		73,296		26,469	
Northeastern U.	90	218,650		58,404		6,951		70,034		3,127		60,944		122		19,068	
Iowa State U.	91	216,003		15,530		35,500		30,380		4,382		41,671		58,371		30,169	
Virginia Commonwealth U.	92	208,743		16,085		2,292		152,293		1,001		7,604		1,140		28,328	
Florida State U.	93	204,544		23,343		11,922		67,026		4,088		60,739		814		36,612	
SUNY, Stony Brook U.	94	186,497		15,339		23,368		88,294		4,246		41,403		256		13,591	
Dartmouth C. and Dartmouth Hitchcock Medical Center	95	185,769		12,111		6,119		131,753		4,394		26,749		1,546		3,097	
Wichita State U.	96	182,881		142,664		717		3,756		12,582		3,083		185		19,894	
U. Tennessee, Knoxville	97	180,010		29,363		58,852		14,752		2,299		30,000		23,943		20,801	
George Washington U.	98	179,220		13,462		2,903		128,904		2,504		17,445		729		13,273	
Medical U. South Carolina	99	173,379		1,232	i	0	i	164,367	i	0	i	434	i	0	i	7,346	i
U. California, Santa Barbara	100	171,188		46,574		20,689		26,822		4,712		58,104		896		13,391	
Tufts U.	101	169,588		14,230		3,684		98,499		1,258		13,018		22,255		16,644	
U. Alaska, Fairbanks	102	168,918		38,347		9,196		7,907		27,742		50,888		4,137		30,701	
U. Texas Health Science Center, San Antonio	103	165,935		9,901		0		152,270		0		106		0		3,658	
Florida International U.	104	165,202		22,358		12,215		52,965		2,165		34,556		1,461		39,482	
U. Texas Medical Branch	105	161,678		19,080		570		139,332		726		447		795		728	
Clemson U.	106	161,658		27,686		8,610		26,597		2,087		27,223		20,037		49,418	
Mississippi State U.	107	161,636		24,188		9,282		17,671		3,652		15,782		47,829		43,232	
Tulane U.	108	159,185		5,098		1,616		130,442		525		11,243		1,694		8,567	
Temple U.	109	159,138		13,206		3,579		123,890		299		12,873		525		4,766	
Montana State U., Bozeman	110	158,999		66,304		4,505		17,438		9,727		21,014		24,684		15,327	
Auburn U., Auburn	111	157,999		27,861		10,367		23,042		5,866		19,834		44,388		26,641	
U. New Hampshire	112	151,886		9,958		5,378		22,527		57,284		20,003		10,750		25,986	
Wayne State U.	113	151,878		7,441		5,266		117,419		431		10,342		225		10,754	

Table 18. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by all federal R&D expenditures, by federal agency: FY 2024

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures		DOD		DOE		HHS		NASA		NSF		USDA		Other <sup>a</sup>	
Medical C. Wisconsin	114	150,035		6,981		0		138,111		325		475		0		4,143	
George Mason U.	115	147,327		65,977		1,162		28,051		8,815		19,475		418		23,429	
U. Massachusetts, Amherst	116	146,876		13,862		8,977		51,213		4,944		42,720		10,278		14,882	
Georgetown U.	117	145,787		14,182		1,305		108,068		2,636		11,560		1		8,035	
U. South Carolina, Columbia	118	144,878		21,600		11,745		75,508		4,321		18,133		371		13,200	
U. Notre Dame	119	144,327		32,397		16,564		30,455		2,814		41,900		1,370		18,827	
Louisiana State U., Baton Rouge	120	142,226		9,184		6,320		57,098		8,985		25,154		16,208		19,277	
U. Vermont	121	138,601		5,110		2,376		79,090		1,856		11,148		26,539		12,482	
U. Central Florida	122	135,779		40,368		11,263		23,869		22,116		21,564		517		16,082	
West Virginia U.	123	129,896		4,558		23,011		52,382		5,377		17,567		11,497		15,504	
Rice U.	124	127,615		26,602		11,684		37,117		3,524		45,831		578		2,279	
U. California, Riverside	125	126,339		11,643		9,804		41,009		2,579		33,141		19,676		8,487	
U. California, Santa Cruz	126	117,064		11,749		7,331		59,367		5,630		24,058		2,238		6,691	
U. Alabama, Huntsville	127	115,434		60,695		1,198		951		36,994		10,286		209		5,101	
Thomas Jefferson U.	128	113,022		4,901		214		104,350		118		162		2,994		283	
U. Alabama, Tuscaloosa	129	112,199		11,900		7,420		22,292		1,625		22,327		1,722		44,913	
U. Rhode Island	130	111,503		11,540		1,683		24,988		1,144		17,486		8,843		45,819	
Rockefeller U.	131	110,292		917		0		107,875		33		1,293		76		98	
Drexel U.	132	109,643		14,506		2,572		69,767		563		15,848		268		6,119	
U. Oregon	133	105,290		3,111		6,085		52,734		1,808		25,865		1,186		14,501	
SUNY, U. Albany	134	104,769		49,218		2,529		36,461		884		8,200		660		6,817	
U. Houston	135	103,963		8,082		8,938		51,024		3,762		21,506		988		9,663	
U. Arkansas for Medical Sciences	136	102,854	i	3,097	i	0	i	95,867	i	685	i	1,289	i	642	i	1,274	i
U. Mississippi	137	102,574		7,271		1,262		74,455		1,717		5,579		6,324		5,966	
Rush U.	138	102,320		533		0		101,480		235		0		0		72	
U. Maine	139	101,733		25,934		14,670		5,833		2,252		17,851		22,252		12,941	
Georgia State U.	140	96,654		3,367		1,123		59,050		691		15,951		627		15,845	
U. Arkansas, Fayetteville	141	95,784		26,201		5,968		11,884		1,460		24,195		19,595		6,481	
U. Louisiana, Lafayette	142	94,237		3,175		2,919		39,303		1,280		9,726		2,872		34,962	
U. Maryland, Baltimore County	143	91,886		7,372		1,905		18,135		43,330		15,268		2,798		3,078	
New Jersey Institute of Technology	144	90,947		10,774		1,098		24,473		3,449		16,153		91		34,909	
U. North Texas, Health Science Center	145	90,722		94		0		84,963		0		154		0		5,511	
U. Louisville	146	89,978		6,278		1,272		71,268		325		7,513		146		3,176	
U. Nevada, Reno	147	89,152		8,307		11,142		30,835		1,742		19,956		4,351		12,819	
U. Montana, Missoula	148	88,952		6,747		626		43,030		1,627		16,354		7,458		13,110	
New Mexico State U.	149	84,715		25,342		10,325		9,118		6,556		13,737		14,297		5,340	
U. North Dakota	150	83,377		19,128		27,964		19,044		1,736		4,783		2,187		8,535	
Kansas State U.	151	83,225		2,686		10,697		13,897		618		16,209		31,108		8,010	

Table 18. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by all federal R&D expenditures, by federal agency: FY 2024

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures		DOD		DOE		HHS		NASA		NSF		USDA		Other <sup>a</sup>
U. Texas, Dallas	152	82,438		19,997		4,793		32,166		4,877		19,374		58		1,173
Oklahoma State U., Stillwater	153	76,701		10,353		6,597		13,971		4,402		14,465		17,233		9,680
U. Texas, El Paso	154	74,836		17,331		7,020		20,021		1,591		21,217		282		7,374
San Diego State U.	155	74,414		7,449		1,831		42,165		1,486		13,612		973		6,898
U. Wyoming	156	73,731		497		13,969		15,187		1,708		22,486		12,447		7,437
Augusta U.	157	73,564		2,669		0		69,803		90		890		0		112
Colorado School of Mines	158	71,415		11,590		26,652		3,245		4,085		19,059		273		6,511
U. Tennessee, Health Science Center	159	64,800		2,647		65		59,808		0		269		147		1,864
Texas Tech U.	160	62,892		9,937		7,943		5,996		2,156		14,346		7,363		15,151
U. Texas, Arlington	161	62,500		12,603		4,829		14,724		2,655		13,846		1,899		11,944
Northern Arizona U.	162	62,399		14,525		4,660		15,469		4,484		13,251		5,788		4,222
Naval Postgraduate School	163	62,115		58,810		1,370		0		975		613		0		347
U. Idaho	164	61,960		495		4,815		9,451		3,549		15,209		22,296		6,145
Rensselaer Polytechnic Institute	165	61,359		12,252		11,716		17,942		3,171		13,462		39		2,777
U. Texas, San Antonio	166	60,101		6,866		10,027		22,659		3,002		9,902		946		6,699
U. Massachusetts, Lowell	167	59,711		19,506		4,575		16,890		3,200		8,641		212		6,687
Stevens Institute of Technology	168	59,605		43,054		685		3,603		953		6,622		378		4,310
Cold Spring Harbor Laboratory	169	58,273	i	2,543	i	427	i	48,300	i	0	i	4,868	i	2,135	i	0
North Dakota State U.	170	57,705		10,649		905		7,235		122		12,574		20,701		5,519
New Mexico Institute of Mining and Technology	171	57,649		30,862		11,797		2,474		1,439		5,598		126		5,353
Florida A&M U.	172	57,545		3,861		4,956		6,991		719		6,634		12,894		21,490
Michigan Technological U.	173	55,980		20,088		7,119		7,022		4,326		9,134		2,483		5,808
Howard U.	174	55,361		4,406		758		39,467		614		6,637		0		3,479
Syracuse U.	175	55,174		4,451		3,356		22,581		153		15,776		1,064		7,793
Cleveland State U.	176	53,415		3,624		456		43,531		599		3,189		9		2,007
U. Southern Mississippi	177	53,044		12,305		534		7,755		1,858		4,878		1,516		24,198
U.S. Air Force Academy	178	51,933		51,623		186		0		103		21		0		0
Texas State U.	179	48,686		3,982		1,830		7,486		1,784		7,048		2,626		23,930
Brandeis U.	180	48,548		1,096		2,903		33,429		482		10,022		0		616
U. Puerto Rico, Medical Sciences Campus	181	47,952		725		0		44,146		0		1,465		0		1,616
Boston C.	182	47,731		7,898		1,833		20,824		815		10,375		76		5,910
U. Nevada, Las Vegas	183	46,258		1,410		7,184		14,247		2,965		8,907		2,538		9,007
Lehigh U.	184	44,797		9,569		5,453		10,252		318		15,367		135		3,703
North Carolina A&T State U.	185	44,751		6,663		5,235		4,355		2,881		11,396		9,904		4,317
U. North Carolina, Greensboro	186	44,726		705		311		19,324		0		5,431		1,788		17,167
Rochester Institute of Technology	187	44,203		7,648		2,717		6,912		3,705		14,581		255		8,385
Air Force Institute of Technology	188	44,128		41,303		725		0		20		0		0		2,080
Saint Louis U.	189	43,867		2,053		348		33,675		342		3,753		183		3,513

Table 18. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by all federal R&D expenditures, by federal agency: FY 2024

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures		DOD	DOE	HHS	NASA	NSF	USDA	Other <sup>a</sup>
U. North Texas, Denton	190	43,136		15,827	4,275	7,145	1,331	8,074	1,206	5,278
Morehouse School of Medicine	191	42,379		3,792	0	37,787	0	569	0	231
U. Toledo	192	41,525		7,959	4,672	17,746	3,996	3,128	1,876	2,148
William & Mary	193	41,488		2,730	3,938	1,687	101	8,825	361	23,846
Indiana U.-Purdue U., Indianapolis	194	41,004		3,834	729	24,295	89	7,288	416	4,353
Worcester Polytechnic Institute	195	40,768		12,264	3,401	7,034	658	12,684	413	4,314
Catholic U. of America	196	40,655		500	5,582	3,370	27,764	2,764	0	675
U. California, Merced	197	39,951		2,738	2,979	8,911	755	17,125	3,606	3,837
U. Denver	198	39,622		925	159	26,568	0	5,219	272	6,479
CUNY, City C.	199	38,727		3,179	3,385	14,075	2,305	10,853	124	4,806
Boise State U.	200	38,325		4,499	4,234	8,303	2,526	14,052	2,098	2,613
SUNY, Upstate Medical U.	201	38,105		4,747	0	33,052	0	49	0	257
Missouri U. of Science and Technology	202	38,058		9,135	8,276	3,151	2,364	6,976	170	7,986
San Jose State U.	203	37,503		1,245	1,659	2,953	18,366	6,465	171	6,644
Morgan State U.	204	37,110		6,172	1,538	7,192	10,493	5,013	210	6,492
South Dakota State U.	205	36,703		323	335	5,509	1,020	3,228	23,497	2,791
Loyola U., Chicago	206	36,481		829	14	30,668	48	3,466	6	1,450
U. North Carolina, Charlotte	207	36,444		3,886	2,765	10,986	284	13,350	273	4,900
Portland State U.	208	35,955		2,298	1,553	9,409	555	9,841	1,371	10,928
Florida Atlantic U.	209	35,414		6,589	561	10,969	863	6,301	5,268	4,863
Louisiana State U., Health Sciences Center, New Orleans	210	35,394		2,281	0	32,365	26	202	0	520
Touro U., New York	211	35,150		7,571	0	27,579	0	0	0	0
U. Texas Rio Grande Valley	212	35,014		2,137	1,825	14,991	398	7,763	3,233	4,667
U. Memphis	213	34,728		5,558	758	13,791	202	6,961	228	7,230
U. South Alabama	214	32,361		5,888	230	9,465	424	6,189	2,006	8,159
Old Dominion U.	215	32,045		7,783	4,774	3,959	1,931	6,885	303	6,410
Illinois Institute of Technology	216	31,996		1,842	6,741	14,926	430	4,976	1,010	2,071
Van Andel Research Institute	217	31,791		1,384	132	29,922	0	353	0	0
SUNY, Binghamton U.	218	31,348		5,183	1,183	13,729	15	8,646	98	2,494
Brigham Young U., Provo	219	31,324		4,254	4,198	8,404	2,316	8,026	750	3,376
East Carolina U.	220	30,338		2,974	725	14,493	414	7,625	142	3,965
Mercer U.	221	28,732		26,006	0	2,272	128	303	0	23
U. Massachusetts, Boston	222	28,676		970	88	11,603	947	5,768	81	9,219
Delaware State U.	223	28,488		2,028	1	9,774	1,124	3,642	6,361	5,558
SUNY, Downstate Health Sciences U.	224	28,276		1,521	0	26,539	0	32	0	184
Embry-Riddle Aeronautical U.	225	28,014		3,741	205	400	3,908	5,012	229	14,519
U. Wisconsin-Milwaukee	226	27,698		829	3,243	11,180	421	8,492	613	2,920
U. Missouri, Kansas City	227	27,638		10,068	312	12,055	145	3,088	199	1,771

Table 18. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by all federal R&D expenditures, by federal agency: FY 2024

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures		DOD		DOE		HHS		NASA		NSF		USDA		Other <sup>a</sup>	
Ohio U.	228	25,975		943		4,809		9,693		396		3,008		455		6,671	
U. Nebraska, Omaha	229	25,294		2,844		716		6,125		478		2,898		11		12,222	
Desert Research Institute	230	25,072		4,223		8,150		747		1,637		3,178		1,419		5,718	
California State U., Long Beach	231	24,285		9,173		311		8,457		63		4,049		955		1,277	
Marquette U.	232	23,110		2,981		2,745		11,549		13		4,664		67		1,091	
Baylor U.	233	22,685		3,801		1,891		8,298		456		5,800		940		1,499	
CUNY, Hunter C.	234	22,412		792		820		16,834		312		2,822		0		832	
Southern Methodist U.	235	22,054		3,900		2,306		3,853		681		6,114		0		5,200	
Eastern Virginia Medical School	236	21,658		365		0		10,048		663		0		0		10,582	
American U.	237	21,538		1,719		91		3,452		4,047		4,511		373		7,345	
Marshall U.	238	21,348		5,482		60		11,013		224		2,303		41		2,225	
Rowan U.	239	21,291		7,432		0		6,868		332		4,933		113		1,613	
U. Guam	240	20,986		3,286		445		3,244		834		4,589		4,708		3,880	
Texas A&M U.-Corpus Christi	241	20,750		1,488		223		775		771		6,167		727		10,599	
U.S. Military Academy	242	20,577		19,294		0		1,005		0		250		0		28	
Jackson State U.	243	20,528		3,071		1,050		5,247		1,035		5,333		0		4,792	
Tennessee State U.	244	20,520		725		2,318		1,953		160		2,637		11,827		900	
Tuskegee U.	245	19,906		1,688		598		4,882		309		4,501		7,928		0	
Meharry Medical C.	246	19,809	i	171	i	426	i	18,649	i	1	i	547	i	15	i	0	i
U. Puerto Rico, Rio Piedras	247	19,254		228		1,095		3,448		3,556		9,173		1,157		597	
CUNY, Queens C.	248	19,019		1,803		10,076		4,413		31		2,529		85		82	
Prairie View A&M U.	249	18,433		1,094		1,373		414		1,548		4,028		7,745		2,231	
U. Colorado Denver	250	18,293		611		239		8,276		12		3,637		27		5,491	
Southern Illinois U., Carbondale	251	18,282		933		323		6,859		772		2,496		1,890		5,009	
Kent State U.	252	18,251		400		1,116		9,787		323		5,386		55		1,184	
Louisiana State U., Health Sciences Center, Shreveport	253	18,040		243		0		17,699		98		0		0		0	
South Dakota School of Mines and Technology	254	18,006		4,716		1,905		498		1,276		8,668		606		337	
U. West Florida	255	17,226		4,374		0		709		5		1,421		19		10,698	
Rutgers, State U. New Jersey, Newark	256	17,099		1,292		344		10,031		0		4,363		82		987	
U. Puerto Rico, Mayaguez	257	17,027		986		1,267		1,106		777		7,017		623		5,251	
CUNY, Graduate School of Public Health and Health Policy	258	16,788		0		0		15,870		0		54		93		771	
California State U., Northridge	259	16,778		768		234		7,079		1,505		6,415		229		548	
Texas Tech U., Health Sciences Center	260	16,721		442		0		15,577		0		307		332		63	
U. Maryland Center for Environmental Science	261	16,689		262		82		0		1,060		6,270		246		8,769	
San Francisco State U.	262	16,033		5		297		8,334		277		5,928		2		1,190	
Wright State U.	263	15,597		6,969		1		7,066		175		886		16		484	
Charles R. Drew U. of Medicine and Science	264	15,475		0		0		15,475		0		0		0		0	
CUNY, Advanced Science Research Center	265	15,129		5,858		618		6,041		399		1,968		162		83	

Table 18. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by all federal R&D expenditures, by federal agency: FY 2024

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures		DOD		DOE		HHS		NASA		NSF		USDA		Other <sup>a</sup>	
U. Massachusetts, Dartmouth	266	14,803		5,714		185		1,271		182		4,082		0		3,369	
Texas A&M U.-Kingsville	267	14,728		406		49		1,051		404		2,054		6,176		4,588	
Tennessee Technological U.	268	14,602		1,488		3,547		184		1,274		3,136		199		4,774	
U. Hawaii, system office	269	14,534		13,910		0		0		107		0		0		517	
Nova Southeastern U.	270	14,369		4,344		0		5,017		0		454		92		4,462	
California Polytechnic State U., San Luis Obispo	271	14,234		1,096		494		2,124		151		5,509		2,649		2,211	
U. Alaska, Anchorage	272	14,204		1,267		504		3,994		444		3,611		413		3,971	
Northern Illinois U.	273	14,151		629		3,797		1,189		148		3,911		415		4,062	
Montana Technological U.	274	13,993		10,268		588		540		128		1,194		19		1,256	
Loma Linda U.	275	13,846		58		19		13,035		514		0		53		167	
U. South Dakota	276	13,807		262		541		9,426		161		2,796		0		621	
Oakland U.	277	13,684		2,200		129		7,131		101		3,890		6		227	
Missouri State U.	278	13,473		12,033		0		204		79		294		419		444	
U. of the Virgin Islands	279	13,422		0		18		1,140		792		6,606		3,726		1,140	
Teachers C., Columbia U.	280	13,361		0		0		2,076		0		2,717		0		8,568	
Clarkson U.	281	13,293		2,829		845		1,944		99		3,646		776		3,154	
Illinois State U.	282	13,132		92		1,638		1,336		0		2,586		608		6,872	
U. Akron	283	12,910		2,241		763		1,484		1,841		5,440		0		1,141	
Xavier U. Louisiana	284	12,892		114		74		10,335		160		1,908		56		245	
Creighton U.	285	12,815		1,132	i	309	i	10,035	i	208	i	791	i	50	i	290	i
Albany Medical C.	286	12,760		788		0		11,972		0		0		0		0	
Alabama A&M U.	287	12,701		2,145	i	724	i	6,493	i	185	i	1,554	i	557	i	1,043	i
North Carolina Central U.	288	12,241		435		194		7,820		192		3,232		0		368	
Texas Southern U.	289	12,131		217		60		4,340		70		1,893		0		5,551	
Western Michigan U. and Homer Stryker M.D. School of Medicine	290	11,928		374		2,633		2,807		605		3,932		13		1,564	
Winston-Salem State U.	291	11,818		0		588		1,803		49		1,957		0		7,421	
U. Maryland, Eastern Shore	292	11,752		301		265		536		118		512		6,783		3,237	
Central Michigan U.	293	11,541		1,317		1,931		3,845		50		1,942		0		2,456	
New York Medical C.	294	11,490		673		0		10,817		0		0		0		0	
Chapman U.	295	11,392		1,571		0		7,311		58		1,452		341		659	
East Tennessee State U.	296	11,338		815		9		8,678		109		499		79		1,149	
Florida Gulf Coast U.	297	11,117		100		0		1,289		48		684		8		8,988	
Miami U.	298	11,085		592		463		5,351		70		3,622		7		980	
U. Tulsa	299	10,777		5,995		627		436		222		1,752		264		1,481	
Florida Institute of Technology	300	10,759		2,942		469		914		1,964		1,238		599		2,633	
California State U., San Marcos	301	10,758		2,481		404		2,904		616		1,518		107		2,728	
California State Polytechnic U., Pomona	302	10,621		412		308		1,334		134		4,759		1,139		2,535	
California State U., Sacramento	303	10,567		0		0		1,173		0		2,205		640		6,549	



Table 18. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by all federal R&D expenditures, by federal agency: FY 2024

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures		DOD		DOE		HHS		NASA		NSF		USDA		Other <sup>a</sup>
Louisiana Tech U.	304	10,178		1,758		353		1,707		252		4,688		464		956
U.S. Naval Academy	305	10,172		8,914		436		0		237		585		0		0
Alcorn State U.	306	10,148		0		322		308		0		50		9,242		226
Clark Atlanta U.	307	10,028		435		564		3,718		0		5,220		91		0
Villanova U.	308	9,754		474		202		2,574		1,277		4,436		0		791
Hampton U.	309	9,710		48		715		2,116		2,656		3,719		0		456
U. Arkansas, Little Rock	310	9,624		2,599		856		693		2,151		2,057		175		1,093
California State U., Los Angeles	311	9,598		65		552		2,962		358		4,621		130		910
U. North Carolina, Wilmington	312	9,547		712		420		1,185		450		3,114		140		3,526
California State U., East Bay	313	9,172		0		612		436		32		2,698		172		5,222
Northeast Ohio Medical U.	314	9,018		313		0		8,433		34		213		0		25
U. Minnesota, Duluth	315	8,999		658		1,150		164		88		2,589		443		3,907
Duquesne U.	316	8,989		1,079		0		6,892		5		620		43		350
Idaho State U.	317	8,964		84		3,172		1,874		323		3,239		0		272
Western Washington U.	318	8,949		0		353		405		718		6,371		31		1,071
South Carolina State U.	319	8,936		109		1,936		1,204		0		725		4,493		469
Texas Christian U.	320	8,818		83		162		4,613		174		1,239		100		2,447
MGH Institute of Health Professions	321	8,800		0		0		8,800		0		0		0		0
U. Texas Health Science Center, Tyler	322	8,444		50		468		7,791		0		54		81		0
Bowling Green State U.	323	8,204		122		314		2,392		108		2,808		651		1,809
SUNY, C. of Environmental Science and Forestry	324	8,133		1,032		562		134		278		2,089		1,863		2,175
Rosalind Franklin U. of Medicine and Science	325	7,989		344		0		7,340		199		0		0		106
Kennesaw State U.	326	7,668		340		0		2,924		0		3,023		23		1,358
Langston U.	327	7,583		0		0		1,074		97		600		5,766		46
Montclair State U.	328	7,489		70		54		2,010		101		3,859		264		1,131
U. Wisconsin-Superior	329	7,452		0		0		0		4		20		0		7,428
CUNY, John Jay C. of Criminal Justice	330	7,340		0		0		1,341		0		737		0		5,262
Western U. of Health Sciences	331	7,285		622		0		6,271		0		40		330		22
Kentucky State U.	332	7,244		0		28		0		0		0		7,216		0
California State U., San Bernardino	333	6,998		139		73		2,086		101		3,923		17		659
Fordham U.	334	6,944		0		148		4,592		0		1,156		0		1,048
Ball State U.	335	6,935		94		0		4,128		21		1,136		287		1,269
U.S. Army War C.	336	6,793	i	555	i	0	i	222	i	0	i	526	i	624	i	4,866
Virginia State U.	337	6,684		852		134		408		8		1,484		3,548		250
U. of the District of Columbia	338	6,253		889		65		0		566		2,310		2,167		256
Fort Valley State U.	339	6,246		0		0		546		0		940		4,760		0
California State U., Fresno	340	6,203		34		64		1,828		192		2,729		1,131		225
Oklahoma State U., Center for Health Sciences	341	6,186		0		0		5,660		0		6		289		231



Table 18. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by all federal R&D expenditures, by federal agency: FY 2024

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures		DOD		DOE		HHS		NASA		NSF		USDA		Other <sup>a</sup>	
Sam Houston State U.	342	6,089		890		0		932		16		1,230		400		2,621	
U. Colorado Colorado Springs	343	6,025		1,226		560		1,120		10		2,639		163		307	
U. Hawaii, Hilo	344	6,015		310		0		889		228		579		410		3,599	
U. New Orleans	345	5,950		1,616		160		85		117		1,467		0		2,505	
Morehouse C.	346	5,903		249		277		641		29		4,010		152		545	
U. New England	347	5,893		0		0		5,495		28		287		11		72	
Southern U. and A&M C., Agricultural Research and Extension Center	348	5,876		0		0		0		0		0		5,876		0	
Naval War C.	349	5,868		5,868		0		0		0		0		0		0	
U. Michigan, Dearborn	350	5,742		1,112		251		877		0		3,238		2		262	
California State U., Monterey Bay	351	5,717		58		3		628		1,014		2,391		831		792	
CUNY, Brooklyn C.	352	5,714		17		198		3,911		0		1,308		212		68	
C. Charleston	353	5,698		0		0		593		2,513		1,711		46		835	
Wesleyan U.	354	5,676		334		180		1,879		603		2,493		0		187	
U. North Florida	355	5,667		213		146		1,491		97		605		0		3,115	
Towson U.	356	5,432		2,704		0		1,020		8		1,017		22		661	
California State U., Fullerton	357	5,372		248		6		1,580		0		3,183		48		307	
DePaul U.	358	5,341		0		56		2,294		656		1,519		8		808	
U. Washington, Tacoma	359	5,319		44		0		748		85		1,199		43		3,200	
Gallaudet U.	360	5,300		159		0		3,195		0		1,027		0		919	
Southern U. and A&M C., Baton Rouge	361	5,298		324		58		1,047		284		3,442		0		143	
Salisbury U.	362	5,292		0		0		3,222		0		553		56		1,461	
U. Missouri, Saint Louis	363	5,273		210		0		1,949		8		1,298		257		1,551	
California State Polytechnic U., Humboldt	364	5,257		0		0		41		0		823		2,328		2,065	
Lincoln U., Jefferson City	365	5,189	i	0	i	0	i	0	i	0	i	566	i	4,623	i	0	i
Northwest Indian C.	366	5,172	i	0	i	0	i	1,021	i	274	i	1,061	i	144	i	2,672	i
Providence C.	367	5,021		53		0		1,153		102		581		0		3,132	
California State U., Bakersfield	368	4,979		276		356		314		0		1,158		325		2,550	
Norfolk State U.	369	4,918		165		940		23		0		3,746		0		44	
Central State U.	370	4,749		129		0		270		0		320		3,909		121	
U. Arkansas, Pine Bluff	371	4,728		364		10		430		11		616		3,140		157	
Tarleton State U.	372	4,718		0		0		0		0		245		4,384		89	
Citadel Military C. South Carolina	373	4,699		2,055		0		111		28		1,671		0		834	
Dine C.	374	4,692		0		0		1,287		0		1,087		1,104		1,214	
CUNY, C. Staten Island	375	4,625		131		0		1,685		0		2,716		0		93	
U. Tennessee, Chattanooga	376	4,563		493		485		171		21		2,740		44		609	
Western Kentucky U.	377	4,511		0		0		2,218		102		710		656		825	
Barnard C.	378	4,334		0		0		1,796		80		2,455		0		3	
CUNY, Lehman C.	379	4,313		49		314		1,519		272		2,014		96		49	

Table 18. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by all federal R&D expenditures, by federal agency: FY 2024

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures		DOD		DOE		HHS		NASA		NSF		USDA		Other <sup>a</sup>	
Lawrence Technological U.	380	4,253		244		0		35		0		462		0		3,512	
U. San Diego	381	4,220		1,356		0		207		16		1,827		41		773	
Benedict C.	382	4,201		90		0		561		0		436		0		3,114	
Spelman C.	382	4,201		125		283		1,219		259		2,159		34		122	
Appalachian State U.	384	4,178		81		43		417		122		2,281		717		517	
U. Washington, Bothell	385	4,149		401		13		646		127		2,049		87		826	
Georgia Southern U.	386	4,075		627		286		690		24		1,402		48		998	
Purdue U., Northwest	387	4,036		779		1,484		352		17		853		179		372	
Southern Illinois U., Edwardsville	388	4,012		406		53		1,102		0		974		271		1,206	
Albany State U.	389	3,973		17		168		0		62		679		82		2,965	
Loyola Marymount U.	390	3,958		0		0		1,190		0		249		27		2,492	
Pennsylvania State U., Behrend	391	3,920		144		20		0		0		657		99		3,000	
Texas A&M U.-San Antonio	392	3,916		44		0		2,303		0		603		73		893	
Texas A&M International U.	393	3,903		67		61		415		0		906		92		2,362	
Sul Ross State U.	394	3,900		0		0		0		0		262		598		3,040	
Fort Lewis C.	395	3,866		0		798		624		48		1,094		250		1,052	
U. Detroit Mercy	396	3,797		381		0		2,746		0		569		0		101	
West Virginia State U.	397	3,779		24		33		27		0		243		3,361		91	
Sonoma State U.	398	3,755		147		99		1		1,872		1,323		0		313	
Arkansas State U., Jonesboro	399	3,744		0		82		746		70		1,399		927		520	
Bowie State U.	400	3,714		447		55		544		534		1,784		145		205	
New York Institute of Technology	401	3,710		315		0		2,408		9		978		0		0	
Texas Tech U., Health Sciences Center, El Paso	402	3,701		0		0		3,101		0		25		0		575	
St. John's U., New York	403	3,685		77		0		3,179		0		429		0		0	
Alfred U.	404	3,590		2,253		782		0		18		141		0		396	
Western Illinois U.	405	3,574	i	781	i	196	i	192	i	0	i	42	i	2,290	i	73	i
Middle Tennessee State U.	406	3,542		64		95		483		100		1,284		1,139		377	
Eastern Michigan U.	407	3,500		104		0		1,518		0		370		11		1,497	
Santa Clara U.	408	3,494		253		73		770		511		1,063		0		824	
James Madison U.	409	3,482		71		31		663		212		2,312		41		152	
U. Baltimore	410	3,471		46		0		130		0		187		0		3,108	
Tougaloo C.	411	3,462		0		201		1,748		278		702		219		314	
National Defense U.	412	3,459		3,459		0		0		0		0		0		0	
Smith C.	412	3,459		112		0		985		203		1,547		102		510	
Alabama State U.	414	3,408		0		0		686		327		2,395		0		0	
Seton Hall U.	415	3,392		386		0		2,579		0		17		0		410	
New Mexico Highlands U.	416	3,348		0		0		342		0		2,982		24		0	
Pacific U.	417	3,329		0		0		1,242		6		1,143		0		938	

Table 18. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by all federal R&D expenditures, by federal agency: FY 2024

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures		DOD		DOE		HHS		NASA		NSF		USDA		Other <sup>a</sup>
Hope C.	418	3,317		0		0		50		111		897		0		2,259
Pennsylvania State U., Harrisburg	419	3,305		49		0		2,855		29		201		0		171
U. North Carolina, Asheville	420	3,295		15		36		1,404		121		615		165		939
Fayetteville State U.	421	3,256		120		195		668		301		1,610		0		362
Colby C.	422	3,236		0		0		453		102		785		1,756		140
Clark U.	423	3,231		0		0		530		388		1,364		481		468
Midwestern U.	424	3,227		0		0		2,356		0		211		256		404
U. Northern Iowa	425	3,220		444		42		693		83		1,528		125		305
Carleton C.	426	3,167		0	i	1	i	344	i	46	i	2,677	i	0	i	99
CUNY, Graduate Center	427	3,157		32		0		171		0		2,585		0		369
Middlebury C.	428	3,135		254		307		910		208		1,112		247		97
Kean U.	429	3,130		0		0		133		0		1,566		0		1,431
Amherst C.	430	3,091		0		0		868		54		2,138		0		31
Texas Woman's U.	431	3,026		136		0		1,419		17		733		247		474
Hofstra U.	432	2,990		12		0		665		43		2,229		0		41
California State U., Chico	433	2,964		47		278		0		3		1,973		605		58
Winthrop U.	434	2,894		46		0		849		0		256		0		1,743
Wellesley C.	435	2,890		0		0		1,651		78		1,161		0		0
Long Island U.	436	2,879		43		0		828		0		552		477		979
U. Southern Maine	437	2,862		0		0		2,176		308		276		0		102
Northeastern Illinois U.	438	2,844		0		0		1,375		0		1,434		35		0
U. New Haven	439	2,836		342		23		294		139		979		41		1,018
Saginaw Valley State U.	440	2,818	i	392	i	654	i	1,031	i	14	i	320	i	28	i	379
Rutgers, State U. New Jersey, Camden	441	2,772		150		11		261		0		2,144		0		206
National U.	442	2,725		0		0		0		0		185		0		2,540
Chicago State U.	443	2,701		0		0		63		108		2,489		9		32
Bucknell U.	444	2,692		25		42		858		60		1,581		3		123
Fisk U.	445	2,681		486		194		374		0		1,627		0		0
California State U., Dominguez Hills	446	2,674		90		71		697		0		1,497		2		317
Keck Graduate Institute	447	2,644		0		0		2,462		21		161		0		0
SUNY, C. of Optometry	448	2,613		32		0		2,581		0		0		0		0
Lamar U.	449	2,572		0		1,013		30		7		647		167		708
Youngstown State U.	450	2,491		1,170		80		244		243		657		0		97
Troy U.	451	2,441		57		0		0		0		44		58		2,282
Murray State U.	452	2,428		0		95		862		26		601		0		844
Texas A&M U.-Commerce	453	2,412		3		99		0		8		1,308		431		563
Austin Peay State U.	454	2,386		309		0		253		32		286		350		1,156
Reed C.	455	2,377		0		106		245		0		1,987		12		27

Table 18. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by all federal R&D expenditures, by federal agency: FY 2024

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures		DOD		DOE		HHS		NASA		NSF		USDA		Other <sup>a</sup>	
Savannah State U.	456	2,376		470		513		614		0		456		0		323	
Saint Joseph's U.	457	2,365		0		0		1,080		0		693		0		592	
Yeshiva U.	458	2,348		95		0		1,705		0		260		81		207	
Coastal Carolina U.	459	2,341		106		278		431		10		540		0		976	
Black Hills State U.	460	2,304		0		56		1,166		0		1,024		0		58	
Trinity U.	460	2,304		0		0		1,403		12		882		1		6	
Northern Kentucky U.	462	2,289		0		0		1,733		147		349		8		52	
CUNY, New York City C. of Technology	463	2,260		114		30		0		17		2,037		0		62	
Roger Williams U.	464	2,244		26		0		628		17		509		35		1,029	
National Louis U.	465	2,231		0		0		0		162		368		0		1,701	
Christopher Newport U.	466	2,224		192		245		25		628		1,112		0		22	
Vassar C.	467	2,205		0		0		584		42		1,477		102		0	
Toyota Technological Institute, Chicago	468	2,186		607		0		257		0		1,322		0		0	
SUNY, Oswego	469	2,176		86		44		659		12		916		0		459	
CUNY, Baruch C.	470	2,168		5		432		555		51		906		0		219	
Dakota State U.	471	2,111		1,211		0		13		4		883		0		0	
Hawaii Pacific U.	472	2,083		61		0		978		47		240		98		659	
U. Louisiana, Monroe	472	2,083		0		0		975		10		0		0		1,098	
U. Central del Caribe	474	2,068		0		0		2,068		0		0		0		0	
Pace U.	475	2,067		0		415		335		0		1,317		0		0	
CUNY, system office	476	2,051		0		0		0		0		2,051		0		0	
U. Wisconsin-Stevens Point	477	2,048		0		0		41		0		182		383		1,442	
Grand Valley State U.	478	2,035	i	0	i	0	i	705	i	296	i	439	i	0	i	595	i
Harvey Mudd C.	479	2,012		0		26		0		0		1,986		0		0	
West Texas A&M U.	480	1,990		717		0		0		0		716		502		55	
Nevada State U.	481	1,989		0		0		848		0		544		0		597	
U. Texas, Tyler	482	1,976		0		112		470		45		391		511		447	
U. Houston-Downtown	483	1,975		0		32		602		0		314		0		1,027	
Haverford C.	484	1,955		0		80		607		252		861		0		155	
U. Central Oklahoma	485	1,950		0		0		462		0		390		67		1,031	
New England C. of Optometry	486	1,935		0		0		1,935		0		0		0		0	
Bowdoin C.	487	1,928		0		0		648		94		1,029		2		155	
Franklin and Marshall C.	488	1,924		0		0		349		55		1,337		0		183	
U. Wisconsin-Oshkosh	489	1,904		0		0		584		0		1,110		13		197	
U. of Health Sciences and Pharmacy in St. Louis	490	1,867		3		0		1,864		0		0		0		0	
Swarthmore C.	491	1,866		31		47		653		15		887		0		233	
Virginia Military Institute	492	1,855		1,743		0		0		45		6		61		0	
Lake Superior State U.	493	1,826		26		0		0		0		568		0		1,232	

Table 18. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by all federal R&D expenditures, by federal agency: FY 2024

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures		DOD		DOE		HHS		NASA		NSF		USDA		Other <sup>a</sup>	
U. Central Arkansas	494	1,823		0		54		1,187		180		113		47		242	
West Chester U. Pennsylvania	495	1,822		242		28		270		8		1,004		0		270	
Claflin U.	496	1,816		0		546		842		0		428		0		0	
Dillard U.	497	1,792		256		37		84		21		743		6		645	
C. New Jersey	498	1,779		0		46		142		255		924		310		102	
U. Puerto Rico, Humacao	499	1,759		0		33		541		250		904		31		0	
United Tribes Technical C.	500	1,757		0		165		59		0		1,074		192		267	
U. Wisconsin-Eau Claire	501	1,740		42		55		668		0		951		0		24	
Davidson C.	502	1,738		0		11		1,001		0		627		0		99	
Eastern Washington U.	503	1,722		0		213		64		0		1,065		0		380	
U. San Francisco	504	1,709		117		98		931		0		440		46		77	
California State U., Stanislaus	505	1,705		0		134		87		97		1,004		0		383	
Central Washington U.	506	1,693		139		0		64		182		870		2		436	
Southeastern Louisiana U.	507	1,688		0		0		861		78		457		0		292	
Furman U.	508	1,685		0		0		259		460		941		25		0	
California State U., Channel Islands	509	1,672		55		36		111		64		1,276		0		130	
U. Ana G. Mendez, Gurabo	510	1,660		0		1,410		85		0		33		0		132	
Western Carolina U.	511	1,651		195		0		305		24		493		156		478	
U. Nebraska, Kearney	512	1,645		0		13		854		32		240		0		506	
U. Houston-Clear Lake	513	1,635		3		0		6		0		525		0		1,101	
Norwich U.	514	1,611		148		0		1,387		0		11		65		0	
Skidmore C.	515	1,605		0		34		143		0		597		249		582	
U. Hartford	516	1,601		38		11		280		862		45		0		365	
Marian U., Indianapolis	517	1,598		0		0		569		0		359		0		670	
Lafayette C.	518	1,557		155		0		355		15		875		0		157	
U. Richmond	519	1,552		0		71		318		15		675		337		136	
Oregon Institute of Technology	520	1,548	i	518	i	110	i	369	i	89	i	216	i	72	i	174	i
Williams C.	521	1,537	i	98	i	25	i	455	i	45	i	754	i	9	i	151	i
Indiana U. Pennsylvania	522	1,536		313		163		0		0		152		527		381	
U. of the Pacific	523	1,510		74		0		1,095		8		333		0		0	
Colgate U.	524	1,509		0		54		192		111		1,114		38		0	
U. Alaska, Southeast	525	1,492		0		0		145		62		686		68		531	
U. Hawaii, Maui C.	526	1,443		0		0		70		140		873		330		30	
SUNY, Buffalo State U.	527	1,419		38		23		51		0		517		0		790	
Mount Holyoke C.	528	1,394		0		0		284		46		1,033		18		13	
U. of St. Thomas (MN)	529	1,391		897		0		76		12		320		0		86	
Seattle U.	530	1,389		30		25		422		0		912		0		0	
Merrimack C.	531	1,339		0		0		1,120		0		187		0		32	

Table 18. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by all federal R&D expenditures, by federal agency: FY 2024

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures		DOD		DOE		HHS		NASA		NSF		USDA		Other <sup>a</sup>	
Sacred Heart U.	532	1,337		0		0		83		0	1,206		0		48		
Southern Utah U.	533	1,331		0		15		0		27	154		501		634		
U. Northern Colorado	534	1,325		0		0		98		84	564		88		491		
CUNY, York C.	535	1,318		153		169		594		0	321		0		81		
Utah Valley U.	536	1,306		0		0		68		77	1,130		18		13		
U. Texas of the Permian Basin	537	1,294		0		0		358		0	520		0		416		
Union C., Schenectady	538	1,288		0		0		22		61	1,205		0		0		
Occidental C.	539	1,285		34		0		351		53	657		141		49		
U. of the Incarnate Word	539	1,285		232		0		586		0	467		0		0		
U. Puerto Rico, Cayey	541	1,259		0		55		617		31	376		0		180		
Marymount U.	542	1,242		258		84		69		0	401		0		430		
Claremont McKenna C.	543	1,208		13		0		122		0	1,073		0		0		
U. Virginia's C. Wise	544	1,207		0		0		0		0	1,192		15		0		
Pittsburg State U.	545	1,199		127		0		168		0	121		0		783		
Alaska Pacific U.	546	1,183		0		0		0		98	738		22		325		
U. South Carolina, Aiken	546	1,183		98		321		138		0	236		0		390		
Southern Connecticut State U.	548	1,159		117		48		260		120	307		110		197		
Bryn Mawr C.	549	1,152		0		0		116		0	1,016		0		20		
La Sierra U.	550	1,148	i	0	i	0	i	0	i	0	0	i	0	i	1,148	i	
Monmouth U.	551	1,143		543		0		0		0	0		8		592		
Oberlin C.	552	1,142		0		0		166		71	887		0		18		
Manhattan C.	553	1,131		69		0		112		0	630		0		320		
U. Wisconsin-Green Bay	553	1,131		188	i	67	i	581	i	29	152	i	19	i	95	i	
U. Scranton	555	1,109		0		0		0		360	703		0		46		
Ferris State U.	556	1,103		0		0		789		0	314		0		0		
U. Puget Sound	557	1,102		0		0		89		10	960		0		43		
Pomona C.	558	1,083		0		0		123		132	828		0		0		
Colorado State U., Pueblo	559	1,072	i	0	i	0	i	0	i	0	899	i	48	i	125	i	
East Stroudsburg U. Pennsylvania	560	1,071		0		0		0		0	959		55		57		
Kenyon C.	561	1,069		0		0		206		0	840		23		0		
SUNY, Geneseo	562	1,062		0		440		0		25	597		0		0		
Claremont Graduate U.	563	1,061		104		0		295		0	416		0		246		
John Carroll U.	564	1,052		0		0		265		0	366		0		421		
New School	564	1,052		0		0		523		0	348		63		118		
Lewis and Clark C.	566	1,051		0		66		150		0	835		0		0		
U. Wisconsin-La Crosse	566	1,051		21		0		100		10	223		168		529		
Aaniiih Nakoda C.	568	1,045		0		0		0		0	1,045		0		0		
Bentley U.	569	1,037		88		0		225		0	607		0		117		

Table 18. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by all federal R&D expenditures, by federal agency: FY 2024

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures		DOD		DOE		HHS		NASA		NSF		USDA		Other <sup>a</sup>
Morehead State U.	570	1,029		0		0		244		668		91		26		0
Butler U.	571	1,004		0		0		574		46		362		0		22
Minnesota State U., Mankato	572	977		0		215		0		16		424		53		269
Arcadia U.	573	955		0		0		40		0		701		0		214
Stephen F. Austin State U.	574	951		0		0		0		0		249		567		135
Ursinus C.	575	940		72		0		425		5		427		11		0
Florida Polytechnic U.	576	939		23		215		450		6		244		0		1
Juniata C.	576	939		0		0		67		0		231		248		393
Drake U.	578	936		13		24		515		42		244		49		49
Touro U., California	579	923		0		0		917		0		6		0		0
Johnson C. Smith U.	580	915		0		7		213		0		180		0		515
National U. of Natural Medicine	581	910	i	0	i	0	i	910	i	0	i	0	i	0	i	0
Bates C.	582	909		0		15		243		172		402		0		77
Erikson Institute	583	904		0		0		503		0		0		0		401
SUNY, C. Plattsburgh	584	893		0		0		0		256		0		48		589
SUNY, C. Brockport	585	889		477		0		0		53		40		0		319
Eastern Kentucky U.	586	871		0		0		52		0		760		34		25
Macalester C.	587	859		131		0		15		7		704		0		2
Indiana State U.	588	838		0		0		348		41		27		0		422
Pepperdine U.	589	827		0		0		175		0		620		24		8
Weber State U.	589	827		100		47		90		0		410		0		180
Loyola U., Maryland	591	820		0		0		29		0		405		0		386
St. Cloud State U.	592	810		0		0		0		24		379		50		357
Plymouth State U.	593	805		0		0		252		183		234		43		93
SUNY, Cobleskill	593	805		512		0		0		0		0		162		131
Calvin U.	595	803		47		0		78		0		497		0		181
Valparaiso U.	596	799		0		179		75		111		434		0		0
Polytechnic U. Puerto Rico	597	796		181		0		0		0		615		0		0
St. Olaf C.	597	796		0		39		178		0		553		0		26
Hobart and William Smith Colleges	599	767		0		0		28		0		666		4		69
Northern Michigan U.	600	752		0		0		62		0		285		0		405
Southern Oregon U.	601	749		0		0		0		26		551		172		0
Keene State C.	602	745		0		0		423		0		266		0		56
U. Illinois, Springfield	603	712		0		41		5		0		25		22		619
Dickinson C.	604	707		0		0		6		0		443		0		258
SUNY, Polytechnic Institute	604	707		55		31		312		0		276		0		33
Robert Morris U.	606	706		504		0		0		0		198		0		4
Suffolk U.	607	702		0		0		45		26		20		0		611



Table 18. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by all federal R&D expenditures, by federal agency: FY 2024

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures		DOD		DOE		HHS		NASA		NSF		USDA		Other <sup>a</sup>
Stockton U.	608	701		2		0		106		0		196		34		363
Edward Via C. of Osteopathic Medicine	609	686		38		0		546		0		0		102		0
St. Bonaventure U.	610	646		0		0		28		0		478		0		140
Elizabeth City State U.	611	642		0		0		0		0		642		0		0
Andrews U.	612	638		0		0		0		502		136		0		0
Grinnell C.	613	634		0		0		0		0		521		0		113
Hamilton C.	614	633		0		0		0		0		544		0		89
U. Michigan, Flint	615	627		0		0		38		0		313		0		276
Denison U.	616	622	i	10	i	11	i	256	i	15	i	243	i	10	i	77
Northwestern State U. Louisiana	617	618		0		0		0		0		0		0		618
U. South Carolina, Beaufort	618	615		0		0		0		0		249		135		231
Roosevelt U.	619	614		0		0		21		0		0		101		492
U. of Mary Washington	620	610		190		0		0		0		135		0		285
Franklin W. Olin C. of Engineering	621	595		0		18		113		91		371		0		2
U. North Georgia	622	589		23		0		0		0		524		42		0
Western New England U.	623	579	i	0	i	3	i	89	i	0	i	367	i	0	i	120
Albany C. of Pharmacy and Health Sciences	624	578		0		0		578		0		0		0		0
U. Wisconsin-River Falls	625	575		19		0		0		0		155		353		48
Milwaukee School of Engineering	626	573		0		0		185		13		375		0		0
U. South Carolina Upstate	627	566		0		0		345		0		221		0		0
High Point U.	628	565	i	101	i	16	i	366	i	19	i	43	i	2	i	18
Midwestern State U.	628	565		0		0		0		0		565		0		0
Seattle Pacific U.	630	564		0		0		9		0		555		0		0
Gettysburg C.	631	562		0		0		110		4		448		0		0
Nicholls State U.	632	558		0		0		0		0		96		0		462
Liberty U.	633	548		217		0		58		0		273		0		0
Trinity C., Hartford	634	545		0		0		287		5		223		0		30
Berry C.	635	534		0		0		116		0		384		0		34
St. Catherine U.	636	517		0		0		407		0		110		0		0
Palmer C. of Chiropractic, Davenport	637	500		0		0		500		0		0		0		0
Elon U.	638	480		59		0		247		0		123		0		51
Connecticut C.	639	466		0		0		313		0		117		0		36
Pennsylvania State U., Altoona	640	448		118		0		0		0		103		0		227
Auburn U., Montgomery	641	446		0		0		199		61		186		0		0
Willamette U.	642	416		0		0		0		0		416		0		0
Des Moines U.	643	402		0		0		313		0		8		0		81
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	644	392		0		0		0		315		77		0		0
C. Wooster	645	390		84		0		17		0		234		0		55

Table 18. Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by all federal R&D expenditures, by federal agency: FY 2024

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures		DOD		DOE		HHS		NASA		NSF		USDA		Other <sup>a</sup>	
Colorado C.	646	389		0		0		0		11		378		0		0	
Eckerd C.	647	369		0		0		0		0		189		0		180	
Bryant U.	648	358		0		0		37		51		270		0		0	
Babson C.	649	351		0		0		334		0		17		0		0	
Rhode Island School of Design	650	342		16		0		31		117		166		0		12	
West Virginia School of Osteopathic Medicine	650	342		0		0		342		0		0		0		0	
Abilene Christian U.	652	328		0		303		0		0		0		0		25	
Whitman C.	653	323		0		0		0		0		323		0		0	
New C. Florida	654	296		39		0		0		0		87		87		83	
Purdue U., Fort Wayne	655	265		0		22		0		6		198		0		39	
Indiana U., South Bend	656	250		0		0		125		0		95		0		30	
Azusa Pacific U.	657	245		0		0		127		0		74		0		44	
Lipscomb U.	657	245		0		0		197		18		30		0		0	
Fairfield U.	659	241		0		0		0		77		154		0		10	
Heidelberg U.	659	241		0		0		0		0		0		168		73	
Philadelphia C. of Osteopathic Medicine	661	225		0		0		0		0		225		0		0	
Eastern Connecticut State U.	662	197		0		0		0		6		164		14		13	
Wheaton C., Wheaton	663	182		0		0		0		0		102		0		80	
California Lutheran U.	664	181		0		0		0		0		181		0		0	
St. Edward's U.	665	141		0		0		39		42		60		0		0	
St. John Fisher U.	666	130		0		0		0		0		130		0		0	
Radford U.	667	84		0		0		0		0		51		33		0	
Carthage C.	668	76		0		0		0		28		32		0		16	
Roseman U. of Health Sciences	669	63		0		0		63		0		0		0		0	
C. of Saint Benedict	670	61	i	1	i	1	i	29	i	0	i	23	i	0	i	7	i
Pratt Institute	671	53	i	0	i	0	i	0	i	0	i	53	i	0	i	0	i
U. North Texas, Dallas	672	26		0		0		0		0		1		0		25	
Lincoln Memorial U.	673	6		0		0		0		0		0		6		0	
Illinois C. of Optometry	674	5		0		0		5		0		0		0		0	

i = imputed.

DOD = Department of Defense; DOE = Department of Energy; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation; USDA = Department of Agriculture.

- <sup>a</sup> Other agency R&D expenditures includes all other agencies reported.
- <sup>b</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$2,478,980 thousand in federally financed R&D expenditures in FY 2024.
- <sup>c</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.
- <sup>d</sup> The University of Oklahoma includes expenditures from the University of Oklahoma, Tulsa and University of Oklahoma, Norman and Health Science Center campuses. Due to a reorganization, the campuses began reporting as one unit in FY 2024.

**Note(s):**  
Agency-specific rankings are available in table 60 through table 66. Institutions reporting zero federal expenditures for FY 2024 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 5](#).

**Source(s):**  
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2024.

**Table 19. Higher education R&D expenditures at all institutions in the standard form survey population, ranked by all non-medical school R&D expenditures: FY 2024**

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
All institutions	-	76,061,852	41,492,293	117,554,145
Johns Hopkins U. <sup>a</sup>	1	3,152,309	976,955	4,129,264
Georgia Institute of Technology	2	1,528,637	0	1,528,637
U. Texas M. D. Anderson Cancer Center	3	1,363,321	0	1,363,321
Texas A&M U., College Station and Health Science Center	4	1,340,126	53,699	1,393,825
U. Wisconsin-Madison	5	1,262,276	670,953	1,933,229
U. Michigan, Ann Arbor	6	1,230,813	880,148	2,110,961
Pennsylvania State U., University Park and Hershey Medical Center	7	1,133,412	169,559	1,302,971
U. California, Berkeley	8	1,126,782	0	1,126,782
U. California, San Diego	9	1,124,642	756,647	1,881,289
U. Texas, Austin	10	1,099,290	44,627	1,143,917
Massachusetts Institute of Technology	11	1,065,554	0	1,065,554
Harvard U.	12	1,035,626	458,901	1,494,527
Arizona State U.	13	1,003,271	0	1,003,271
U. California, Los Angeles	14	959,460	936,767	1,896,227
U. Maryland <sup>b</sup>	15	952,651	586,869	1,539,520
Purdue U., West Lafayette	16	931,513	0	931,513
Cornell U.	17	917,249	696,382	1,613,631
U. Minnesota, Twin Cities	18	916,764	492,946	1,409,710
U. Illinois, Urbana-Champaign	19	905,740	1,011	906,751
Michigan State U.	20	807,037	124,811	931,848
U. Southern California	21	784,400	479,797	1,264,197
U. Washington, Seattle	22	783,301	908,001	1,691,302
Ohio State U.	23	741,810	839,760	1,581,570
U. North Carolina, Chapel Hill	24	719,735	879,016	1,598,751
U. Colorado Boulder	25	717,920	0	717,920
North Carolina State U.	26	717,004	0	717,004
U. California, Davis	27	714,760	290,997	1,005,757
U. Arizona	28	711,684	300,720	1,012,404
U. Pennsylvania	29	711,353	1,456,151	2,167,504
U. Florida	30	705,485	567,008	1,272,493
Columbia U. in the City of New York	31	663,855	785,680	1,449,535
Virginia Polytechnic Institute and State U.	32	655,918	998	656,916
Emory U.	33	653,656	592,851	1,246,507
U. Georgia	34	628,117	0	628,117
Vanderbilt U. and Vanderbilt U. Medical Center	35	614,089	713,781	1,327,870
Princeton U.	36	558,624	0	558,624
Boston U.	37	552,326	232,029	784,355
U. Nebraska, Lincoln and Medical Center	38	515,730	141,738	657,468
Carnegie Mellon U.	39	505,262	0	505,262
Scripps Research Institute	40	501,468	0	501,468
New York U.	41	493,669	1,007,063	1,500,732
Stanford U.	42	479,577	1,162,384	1,641,961
SUNY, U. Albany	43	471,605	0	471,605
U. Utah	44	468,113	321,158	789,271
Colorado State U., Fort Collins	45	466,386	0	466,386
U. Delaware	46	465,780	0	465,780
Iowa State U.	47	462,347	0	462,347
Utah State U.	48	451,379	0	451,379

**Table 19. Higher education R&D expenditures at all institutions in the standard form survey population, ranked by all non-medical school R&D expenditures: FY 2024**

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
California Institute of Technology	49	445,173	0	445,173
Louisiana State U., Baton Rouge	50	431,439	0	431,439
Florida State U.	51	425,519	35,214	460,733
U. California, Irvine	52	421,494	223,454	644,948
Northwestern U.	53	412,688	845,171	1,257,859
U. Missouri, Columbia	54	409,822	98,758	508,580
U. Virginia, Charlottesville	55	406,014	407,758	813,772
Auburn U., Auburn	56	393,557	0	393,557
Wichita State U.	57	392,333	0	392,333
U. Tennessee, Knoxville	58	386,949	0	386,949
U. Pittsburgh, Pittsburgh	59	378,496	1,126,169	1,504,665
Oregon State U.	60	371,904	0	371,904
Washington State U.	61	369,410	33,959	403,369
Northeastern U.	62	346,900	0	346,900
U. Notre Dame	63	345,791	0	345,791
U. Hawaii, Manoa	64	344,452	31,179	375,631
Mississippi State U.	65	342,132	0	342,132
Rutgers, State U. New Jersey, New Brunswick	66	342,012	494,788	836,800
Clemson U.	67	338,533	0	338,533
Yale U.	68	334,920	1,184,774	1,519,694
U. Illinois, Chicago	69	329,248	202,933	532,181
U. South Florida	70	322,600	199,292	521,892
U. Kansas	71	319,753	226,357	546,110
U. Oklahoma <sup>c</sup>	72	315,356	158,687	474,043
Florida International U.	73	314,149	11,636	325,785
U. Kentucky	74	311,173	216,485	527,658
SUNY, U. Buffalo	75	309,707	232,173	541,880
U. Iowa	76	309,529	393,797	703,326
U. Connecticut	77	309,033	124,512	433,545
Woods Hole Oceanographic Institution	78	308,240	0	308,240
Rockefeller U.	79	305,300	0	305,300
Duke U.	80	303,571	1,277,185	1,580,756
U. California, Santa Barbara	81	303,446	0	303,446
Indiana U., Bloomington	82	299,022	597,961	896,983
George Washington U.	83	297,103	84,479	381,582
Medical U. South Carolina	84	293,024	27,966	320,990
U. Massachusetts, Amherst	85	281,730	0	281,730
George Mason U.	86	281,697	0	281,697
Rice U.	87	277,683	0	277,683
Brown U.	88	265,419	109,085	374,504
Kansas State U.	89	264,961	0	264,961
Montana State U., Bozeman	90	257,927	0	257,927
U. Central Florida	91	257,831	27,112	284,943
Texas Tech U.	92	256,919	0	256,919
U. Chicago	93	256,877	423,876	680,753
Virginia Commonwealth U.	94	255,356	268,939	524,295
U. Louisiana, Lafayette	95	254,883	0	254,883
Oklahoma State U., Stillwater	96	253,770	0	253,770
U. Dayton	97	252,537	0	252,537

**Table 19. Higher education R&D expenditures at all institutions in the standard form survey population, ranked by all non-medical school R&D expenditures: FY 2024**

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
U. South Carolina, Columbia	98	249,878	27,451	277,329
U. California, San Francisco	99	247,123	1,880,514	2,127,637
U. Alaska, Fairbanks	100	246,295	0	246,295
Dartmouth C. and Dartmouth Hitchcock Medical Center	101	244,240	174,189	418,429
Georgia State U.	102	241,115	0	241,115
U. New Mexico	103	238,921	115,953	354,874
U. Houston	104	236,895	2,101	238,996
Oregon Health and Science U.	105	234,639	310,575	545,214
U. Arkansas, Fayetteville	106	230,626	0	230,626
U. New Hampshire	107	230,224	0	230,224
U. Alabama, Birmingham	108	228,566	637,302	865,868
U. Alabama, Tuscaloosa	109	221,235	0	221,235
U. California, Santa Cruz	110	218,426	0	218,426
U. California, Riverside	111	210,924	20,672	231,596
U. Rochester	112	207,323	285,049	492,372
Temple U.	113	205,656	109,343	314,999
Tufts U.	114	200,489	77,815	278,304
North Dakota State U.	115	199,885	0	199,885
U. Maine	116	198,870	0	198,870
Syracuse U.	117	198,750	0	198,750
U. Colorado Anschutz Medical Campus	118	197,148	544,495	741,643
West Virginia U.	119	194,269	64,803	259,072
SUNY, Stony Brook U.	120	189,571	129,687	319,258
U. Texas, Dallas	121	181,795	0	181,795
San Diego State U.	122	181,600	0	181,600
U. Oregon	123	174,785	0	174,785
U. Texas Health Science Center, Houston	124	171,797	247,326	419,123
New Jersey Institute of Technology	125	171,741	0	171,741
U. Texas, San Antonio	126	171,528	0	171,528
Case Western Reserve U.	127	170,621	471,925	642,546
U. Wyoming	128	167,306	0	167,306
Georgetown U.	129	166,910	209,690	376,600
U. North Dakota	130	165,796	31,632	197,428
Tulane U.	131	165,087	110,798	275,885
Texas State U.	132	165,047	0	165,047
SUNY, Binghamton U.	133	160,644	0	160,644
Brigham Young U., Provo	134	158,319	0	158,319
U. Texas, El Paso	135	157,574	0	157,574
Washington U., Saint Louis	136	157,018	1,086,097	1,243,115
U. Alabama, Huntsville	137	154,494	0	154,494
U. Nevada, Reno	138	153,967	40,164	194,131
U. Texas, Arlington	139	153,780	0	153,780
U. Maryland, Baltimore County	140	150,908	0	150,908
U. Montana, Missoula	141	143,810	0	143,810
New Mexico State U.	142	142,872	0	142,872
U. Idaho	143	140,413	0	140,413
Rensselaer Polytechnic Institute	144	140,247	0	140,247
U. Miami	145	139,186	419,827	559,013
U. Rhode Island	146	137,462	0	137,462
Baylor U.	147	134,876	0	134,876

**Table 19. Higher education R&D expenditures at all institutions in the standard form survey population, ranked by all non-medical school R&D expenditures: FY 2024**

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
U. Vermont	148	133,422	112,818	246,240
U. Cincinnati	149	132,259	607,619	739,878
Drexel U.	150	128,891	41,314	170,205
Cold Spring Harbor Laboratory	151	126,502	0	126,502
U. Texas Health Science Center, San Antonio	152	125,767	187,024	312,791
U. North Texas, Denton	153	124,219	0	124,219
U. Massachusetts, Lowell	154	120,672	0	120,672
Wayne State U.	155	116,001	175,688	291,689
U. Nevada, Las Vegas	156	113,971	4,078	118,049
Colorado School of Mines	157	109,905	0	109,905
U. Mississippi	158	109,653	80,257	189,910
U. Memphis	159	108,862	0	108,862
Brandeis U.	160	107,059	0	107,059
U. North Texas, Health Science Center	161	106,963	3,536	110,499
Michigan Technological U.	162	106,919	0	106,919
Boston C.	163	96,310	0	96,310
U. North Carolina, Charlotte	164	94,895	0	94,895
William & Mary	165	94,609	0	94,609
Northern Arizona U.	166	93,749	0	93,749
U. Southern Mississippi	167	93,692	0	93,692
Uniformed Services U. of the Health Sciences	168	91,510	477,540	569,050
U. Texas Rio Grande Valley	169	89,282	1,328	90,610
Indiana U.-Purdue U., Indianapolis	170	88,989	0	88,989
San Jose State U.	171	88,125	0	88,125
U. Louisville	172	86,903	138,066	224,969
Cleveland State U.	173	85,839	0	85,839
Van Andel Research Institute	174	83,309	0	83,309
South Dakota State U.	175	82,246	0	82,246
North Carolina A&T State U.	176	81,845	0	81,845
CUNY, Graduate Center	177	80,831	0	80,831
New Mexico Institute of Mining and Technology	178	79,857	0	79,857
Florida Atlantic U.	179	79,834	8,072	87,906
U. California, Office of the President	180	79,293	0	79,293
Rochester Institute of Technology	181	78,488	0	78,488
American U.	182	78,356	0	78,356
U. North Carolina, Greensboro	183	77,370	0	77,370
U. California, Merced	184	77,233	0	77,233
Touro U., New York	185	76,369	498	76,867
Old Dominion U.	186	76,202	0	76,202
U. Massachusetts, Boston	187	74,625	0	74,625
Naval Postgraduate School	188	73,230	0	73,230
Howard U.	189	72,924	28,891	101,815
Worcester Polytechnic Institute	190	71,552	0	71,552
Stevens Institute of Technology	191	70,736	0	70,736
Missouri U. of Science and Technology	192	69,534	0	69,534
CUNY, City C.	193	69,001	2,683	71,684
Florida A&M U.	194	68,674	0	68,674
U. Wisconsin-Milwaukee	195	66,270	0	66,270
Southern Methodist U.	196	62,553	0	62,553
Lehigh U.	197	62,406	0	62,406



**Table 19. Higher education R&D expenditures at all institutions in the standard form survey population, ranked by all non-medical school R&D expenditures: FY 2024**

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
Kent State U.	198	61,437	0	61,437
Boise State U.	199	57,749	0	57,749
Catholic U. of America	200	57,705	0	57,705
U. Denver	201	55,630	0	55,630
Morgan State U.	202	55,506	0	55,506
Western Michigan U. and Homer Stryker M.D. School of Medicine	203	54,908	7,155	62,063
East Carolina U.	204	54,714	17,825	72,539
Air Force Institute of Technology	205	54,204	0	54,204
U. Maryland Center for Environmental Science	206	54,036	0	54,036
U.S. Air Force Academy	207	53,158	0	53,158
Ohio U.	208	52,553	14,877	67,430
Rowan U.	209	52,339	11,645	63,984
Texas A&M U.-Corpus Christi	210	52,175	0	52,175
Portland State U.	211	51,677	0	51,677
Kennesaw State U.	212	51,575	0	51,575
Marquette U.	213	49,099	0	49,099
U. Missouri, Kansas City	214	48,716	8,314	57,030
Baylor C. of Medicine	215	48,500	832,726	881,226
Chapman U.	216	48,308	0	48,308
Saint Louis U.	217	47,445	48,387	95,832
U. South Alabama	218	47,001	23,083	70,084
Georgia Southern U.	219	46,093	0	46,093
CUNY, Hunter C.	220	45,223	0	45,223
Montclair State U.	221	43,798	0	43,798
Delaware State U.	222	43,724	0	43,724
U. West Florida	223	43,503	0	43,503
Southern Illinois U., Carbondale	224	43,184	18,276	61,460
U. Massachusetts, Dartmouth	225	42,352	0	42,352
San Francisco State U.	226	42,000	0	42,000
U. Toledo	227	41,669	31,531	73,200
Mercer U.	228	39,677	6,827	46,504
U. Puerto Rico, Medical Sciences Campus	229	39,526	21,927	61,453
SUNY, C. of Environmental Science and Forestry	230	38,661	0	38,661
California Polytechnic State U., San Luis Obispo	231	38,133	0	38,133
Illinois Institute of Technology	232	37,990	0	37,990
Oakland U.	233	37,041	1,467	38,508
U. Texas Southwestern Medical Center	234	36,562	832,735	869,297
Tennessee Technological U.	235	36,399	0	36,399
U. Nebraska, Omaha	236	35,134	0	35,134
East Tennessee State U.	237	35,058	7,468	42,526
Tennessee State U.	238	35,017	0	35,017
Embry-Riddle Aeronautical U.	239	35,014	0	35,014
Northern Illinois U.	240	34,467	0	34,467
Illinois State U.	241	34,238	0	34,238
Teachers C., Columbia U.	242	34,096	0	34,096
California State U., Sacramento	243	33,952	0	33,952
California State U., Long Beach	244	33,897	0	33,897
California State U., Fullerton	245	33,709	0	33,709
U. Puerto Rico, Rio Piedras	246	33,659	0	33,659
Villanova U.	247	33,090	0	33,090

**Table 19. Higher education R&D expenditures at all institutions in the standard form survey population, ranked by all non-medical school R&D expenditures: FY 2024**

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
U. Tulsa	248	32,802	0	32,802
Desert Research Institute	249	32,250	0	32,250
CUNY, Queens C.	250	31,845	0	31,845
Texas A&M U.-Kingsville	251	31,751	0	31,751
Prairie View A&M U.	252	31,632	0	31,632
Louisiana Tech U.	253	31,247	0	31,247
U. Minnesota, Duluth	254	29,901	0	29,901
Tuskegee U.	255	29,720	0	29,720
Nova Southeastern U.	256	29,163	31,466	60,629
CUNY, Graduate School of Public Health and Health Policy	257	28,637	0	28,637
Miami U.	258	28,566	0	28,566
Fordham U.	259	28,249	0	28,249
Texas Christian U.	260	27,620	39	27,659
California State U., Northridge	261	27,009	0	27,009
Augusta U.	262	26,975	139,244	166,219
Wake Forest U.	263	26,934	317,583	344,517
California State Polytechnic U., Humboldt	264	26,607	0	26,607
U. Puerto Rico, Mayaguez	265	26,455	0	26,455
U. Texas Health Science Center, Tyler	266	26,240	0	26,240
Rutgers, State U. New Jersey, Newark	267	26,222	0	26,222
Clarkson U.	268	26,150	0	26,150
U. Guam	269	25,306	0	25,306
Tarleton State U.	270	24,875	0	24,875
Jackson State U.	271	24,744	0	24,744
U. Alaska, Anchorage	272	24,649	0	24,649
U. Akron	273	24,568	0	24,568
U. Colorado Denver	274	24,313	0	24,313
South Dakota School of Mines and Technology	275	23,941	0	23,941
New School	276	23,902	0	23,902
Florida Gulf Coast U.	277	23,841	0	23,841
Thomas Jefferson U.	278	23,561	247,637	271,198
Western Washington U.	279	23,275	0	23,275
Marshall U.	280	23,121	16,057	39,178
U. North Carolina, Wilmington	281	22,672	0	22,672
Montana Technological U.	282	22,588	0	22,588
CUNY, Advanced Science Research Center	283	22,464	0	22,464
U.S. Military Academy	284	22,292	0	22,292
James Madison U.	285	21,394	0	21,394
CUNY, John Jay C. of Criminal Justice	286	21,156	0	21,156
Bowling Green State U.	287	19,615	0	19,615
U. North Florida	288	19,318	0	19,318
U. New Orleans	289	19,311	0	19,311
Towson U.	290	19,215	0	19,215
Texas Southern U.	291	19,045	0	19,045
Long Island U.	292	18,759	0	18,759
U. South Dakota	293	18,315	9,593	27,908
Florida Institute of Technology	294	17,842	0	17,842
Southern Illinois U., Edwardsville	295	17,673	0	17,673
Texas Tech U., Health Sciences Center	296	17,620	35,366	52,986
Idaho State U.	297	17,494	0	17,494

**Table 19. Higher education R&D expenditures at all institutions in the standard form survey population, ranked by all non-medical school R&D expenditures: FY 2024**

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
Alabama A&M U.	298	16,248	0	16,248
North Carolina Central U.	299	16,212	0	16,212
Missouri State U.	300	16,103	0	16,103
Xavier U. Louisiana	301	15,955	0	15,955
Sam Houston State U.	302	15,696	1,020	16,716
Loyola Marymount U.	303	15,570	0	15,570
Duquesne U.	304	15,547	2,801	18,348
U. Texas Medical Branch	305	15,350	225,722	241,072
CUNY, Brooklyn C.	306	15,244	0	15,244
Alcorn State U.	307	14,844	0	14,844
U. of the Virgin Islands	308	14,762	0	14,762
U. Missouri, Saint Louis	309	14,698	0	14,698
Loyola U., Chicago	310	14,620	46,834	61,454
U. Hawaii, system office	311	14,542	0	14,542
Salisbury U.	312	14,422	0	14,422
California State U., Fresno	313	14,410	0	14,410
California State U., East Bay	314	14,307	0	14,307
California State Polytechnic U., Pomona	315	13,685	0	13,685
Kentucky State U.	316	13,534	0	13,534
Clark Atlanta U.	317	13,424	0	13,424
U. Maryland, Eastern Shore	318	13,422	0	13,422
Langston U.	319	13,340	0	13,340
Virginia State U.	320	13,271	0	13,271
Ball State U.	321	13,095	0	13,095
California State U., San Marcos	322	12,788	0	12,788
Clark U.	323	12,707	0	12,707
Winston-Salem State U.	324	12,650	0	12,650
U. San Diego	325	12,649	0	12,649
Central Michigan U.	326	12,597	14,832	27,429
South Carolina State U.	327	12,496	0	12,496
U. Michigan, Dearborn	328	12,460	0	12,460
U. Tennessee, Chattanooga	329	12,104	0	12,104
Wright State U.	330	12,064	10,583	22,647
Fort Valley State U.	331	11,727	0	11,727
California State U., Monterey Bay	332	11,717	0	11,717
West Texas A&M U.	333	11,616	0	11,616
Central State U.	334	11,459	0	11,459
California State U., San Bernardino	335	11,339	0	11,339
Appalachian State U.	336	11,293	0	11,293
Western Kentucky U.	337	11,213	0	11,213
Eastern Michigan U.	338	11,202	0	11,202
U. San Francisco	339	10,962	0	10,962
Arkansas State U., Jonesboro	340	10,950	0	10,950
California State U., Los Angeles	341	10,889	0	10,889
Pepperdine U.	342	10,870	0	10,870
Wesleyan U.	343	10,819	0	10,819
Hampton U.	344	10,660	0	10,660
U.S. Naval Academy	345	10,592	0	10,592
DePaul U.	346	10,522	0	10,522
U. Arkansas, Little Rock	347	10,461	0	10,461

**Table 19. Higher education R&D expenditures at all institutions in the standard form survey population, ranked by all non-medical school R&D expenditures: FY 2024**

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
Saint Joseph's U.	348	10,451	0	10,451
Yeshiva U.	349	10,290	0	10,290
Creighton U.	350	10,244	19,090	29,334
MGH Institute of Health Professions	351	10,029	0	10,029
Charles R. Drew U. of Medicine and Science	352	9,943	13,721	23,664
Rutgers, State U. New Jersey, Camden	353	9,849	0	9,849
Hofstra U.	354	9,743	682	10,425
Purdue U., Northwest	355	9,549	0	9,549
Gallaudet U.	356	9,524	0	9,524
Kean U.	357	9,479	0	9,479
Seton Hall U.	358	9,477	0	9,477
U. of the District of Columbia	359	9,386	0	9,386
Lincoln U., Jefferson City	360	9,261	0	9,261
Texas Woman's U.	361	8,998	0	8,998
Southern U. and A&M C., Agricultural Research and Extension Center	362	8,969	0	8,969
SUNY, Upstate Medical U.	363	8,950	50,532	59,482
California State U., Chico	364	8,918	0	8,918
Western U. of Health Sciences	365	8,790	2,400	11,190
Middle Tennessee State U.	366	8,736	0	8,736
Amherst C.	367	8,666	0	8,666
C. Charleston	368	8,662	0	8,662
U. Hawaii, Hilo	369	8,501	0	8,501
U. Northern Colorado	370	8,476	0	8,476
California State U., Bakersfield	371	8,457	0	8,457
Lawrence Technological U.	372	8,435	0	8,435
Pacific U.	373	8,383	0	8,383
Texas A&M International U.	374	8,378	0	8,378
U. Wisconsin-Superior	375	8,355	0	8,355
Lamar U.	376	8,324	0	8,324
SUNY, Downstate Health Sciences U.	377	8,276	29,046	37,322
Santa Clara U.	378	8,011	0	8,011
U. Arkansas, Pine Bluff	379	7,975	0	7,975
U. Washington, Tacoma	380	7,973	0	7,973
Abilene Christian U.	381	7,868	0	7,868
Benedict C.	382	7,788	0	7,788
Claremont McKenna C.	383	7,777	0	7,777
Southern Connecticut State U.	384	7,620	0	7,620
U. Colorado Colorado Springs	385	7,528	0	7,528
Smith C.	386	7,375	0	7,375
Norfolk State U.	387	7,309	0	7,309
Louisiana State U., Health Sciences Center, New Orleans	388	7,167	72,513	79,680
Texas A&M U.-San Antonio	389	7,149	0	7,149
Grinnell C.	390	7,131	0	7,131
Williams C.	391	7,074	0	7,074
Pennsylvania State U., Behrend	392	7,054	0	7,054
Grand Valley State U.	393	7,041	0	7,041
Wellesley C.	394	6,989	0	6,989
Northwest Indian C.	395	6,988	0	6,988
Dine C.	396	6,960	0	6,960
West Chester U. Pennsylvania	397	6,870	0	6,870

**Table 19. Higher education R&D expenditures at all institutions in the standard form survey population, ranked by all non-medical school R&D expenditures: FY 2024**

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
U.S. Army War C.	398	6,819 i	0 i	6,819 i
Texas A&M U.-Commerce	399	6,811	0	6,811
Midwestern U.	400	6,579	7,053	13,632
Indiana U. Pennsylvania	401	6,568	0	6,568
Sul Ross State U.	402	6,546	0	6,546
U. Southern Maine	403	6,545	0	6,545
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	404	6,480	0	6,480
Barnard C.	405	6,361	0	6,361
Oregon Institute of Technology	406	6,311 i	0 i	6,311 i
Bryn Mawr C.	407	6,302	0	6,302
CUNY, Lehman C.	408	6,259	0	6,259
Roseman U. of Health Sciences	409	6,198	0	6,198
Bucknell U.	410	6,193	0	6,193
Swarthmore C.	411	6,067	0	6,067
West Virginia State U.	412	6,059	0	6,059
U. of St. Thomas (MN)	413	5,994	0	5,994
CUNY, Baruch C.	414	5,977	0	5,977
Providence C.	415	5,924	0	5,924
Alfred U.	416	5,915	0	5,915
Morehouse C.	417	5,903	0	5,903
Marian U., Indianapolis	418	5,895	1,629	7,524
Naval War C.	419	5,868	0	5,868
Fairfield U.	420	5,839	0	5,839
Trinity U.	421	5,838	0	5,838
U. Baltimore	422	5,797	0	5,797
California State U., Dominguez Hills	423	5,762	0	5,762
Occidental C.	424	5,753	0	5,753
CUNY, C. Staten Island	425	5,737	0	5,737
Pennsylvania State U., Harrisburg	426	5,735	0	5,735
Loma Linda U.	427	5,724	18,174	23,898
Sacred Heart U.	428	5,698	0	5,698
U. North Carolina, Asheville	429	5,677	0	5,677
Dakota State U.	430	5,652	0	5,652
U. New Haven	431	5,640	0	5,640
Meharry Medical C.	432	5,622 i	18,069 i	23,691 i
High Tech High Graduate School of Ed.	433	5,585	0	5,585
Hope C.	434	5,584	0	5,584
Southeastern Louisiana U.	435	5,577	0	5,577
Pomona C.	436	5,522	0	5,522
Southern U. and A&M C., Baton Rouge	437	5,483	0	5,483
U. Washington, Bothell	438	5,320	0	5,320
Reed C.	439	5,154	0	5,154
Rhode Island School of Design	440	5,130	0	5,130
Coastal Carolina U.	441	5,094	0	5,094
Trinity C., Hartford	442	5,074	0	5,074
Austin Peay State U.	443	5,070	0	5,070
National U.	444	5,022	0	5,022
Carleton C.	445	4,993	0	4,993
Toyota Technological Institute, Chicago	446	4,982	0	4,982

**Table 19. Higher education R&D expenditures at all institutions in the standard form survey population, ranked by all non-medical school R&D expenditures: FY 2024**

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
Citadel Military C. South Carolina	447	4,969	0	4,969
Philadelphia C. of Osteopathic Medicine	448	4,949	2,662	7,611
St. John's U., New York	449	4,947	0	4,947
Sonoma State U.	450	4,928	0	4,928
Suffolk U.	451	4,890	0	4,890
Franklin and Marshall C.	452	4,815	0	4,815
Claremont Graduate U.	453	4,808	0	4,808
Colgate U.	454	4,730	0	4,730
Seattle U.	455	4,699	0	4,699
U. Wisconsin-Stevens Point	456	4,691	0	4,691
Bentley U.	457	4,639	0	4,639
Fort Lewis C.	458	4,582	0	4,582
U. Detroit Mercy	459	4,550	0	4,550
Spelman C.	460	4,537	0	4,537
Davidson C.	461	4,525	0	4,525
Colby C.	462	4,513	0	4,513
Stephen F. Austin State U.	463	4,502	0	4,502
U. Central Oklahoma	464	4,495	0	4,495
St. Cloud State U.	465	4,416	0	4,416
Rush U.	466	4,412	134,883	139,295
U. Northern Iowa	467	4,409	0	4,409
Monmouth U.	468	4,340	0	4,340
Morehouse School of Medicine	469	4,327	64,419	68,746
St. John Fisher U.	470	4,190	0	4,190
Albany State U.	471	4,163	0	4,163
Western Illinois U.	472	4,142	0	4,142
Haverford C.	473	4,103	0	4,103
New Mexico Highlands U.	474	4,074	0	4,074
National Louis U.	475	3,993	0	3,993
Keck Graduate Institute	476	3,972	0	3,972
Fayetteville State U.	477	3,942	0	3,942
East Stroudsburg U. Pennsylvania	478	3,916	0	3,916
Alabama State U.	479	3,901	0	3,901
Harvey Mudd C.	480	3,900	0	3,900
Whitman C.	481	3,891	0	3,891
Lake Superior State U.	482	3,876	0	3,876
California State U., Channel Islands	483	3,860	0	3,860
U. Nebraska, Kearney	484	3,796	0	3,796
Purdue U., Fort Wayne	485	3,791	0	3,791
Hawaii Pacific U.	486	3,784	0	3,784
SUNY, C. of Optometry	487	3,776	0	3,776
Vassar C.	488	3,775	0	3,775
Christopher Newport U.	489	3,764	0	3,764
U. New England	490	3,745	4,348	8,093
Bowie State U.	491	3,731	0	3,731
U. Wisconsin-Eau Claire	492	3,730	0	3,730
Roger Williams U.	493	3,679	0	3,679
Hamilton C.	494	3,664	0	3,664
U. Texas, Tyler	495	3,632	0	3,632
Murray State U.	496	3,630	0	3,630

**Table 19. Higher education R&D expenditures at all institutions in the standard form survey population, ranked by all non-medical school R&D expenditures: FY 2024**

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
New England C. of Optometry	497	3,602	0	3,602
Middlebury C.	498	3,576	0	3,576
Saginaw Valley State U.	499	3,552	0	3,552
Winthrop U.	500	3,466	0	3,466
Tougaloo C.	501	3,462	0	3,462
National Defense U.	502	3,459	0	3,459
U. Wisconsin-Oshkosh	503	3,443	0	3,443
Fisk U.	504	3,425	0	3,425
Bowdoin C.	505	3,406	0	3,406
Azusa Pacific U.	506	3,401	0	3,401
Pace U.	507	3,348	0	3,348
Troy U.	508	3,318	0	3,318
Dillard U.	509	3,317	0	3,317
Texas Tech U., Health Sciences Center, El Paso	510	3,278	12,325	15,603
Northern Kentucky U.	511	3,271	0	3,271
Des Moines U.	512	3,252	637	3,889
SUNY, Oswego	513	3,242	0	3,242
Minnesota State U., Mankato	514	3,235	0	3,235
Furman U.	515	3,231	0	3,231
U. Central Arkansas	516	3,142	0	3,142
Milwaukee School of Engineering	517	3,090	0	3,090
U. Houston-Clear Lake	518	3,080	0	3,080
U. Tennessee, Health Science Center	519	3,074	121,697	124,771
U. Wisconsin-La Crosse	520	3,068	0	3,068
U. Houston-Downtown	521	3,049	0	3,049
CUNY, New York City C. of Technology	522	3,033	0	3,033
Elon U.	523	2,997	0	2,997
U. of the Incarnate Word	524	2,995	585	3,580
U. of Health Sciences and Pharmacy in St. Louis	525	2,976	0	2,976
U. Richmond	526	2,961	0	2,961
Eastern Washington U.	527	2,957	0	2,957
U. Louisiana, Monroe	528	2,940	0	2,940
Lewis and Clark C.	529	2,924	0	2,924
C. New Jersey	530	2,857	0	2,857
Merrimack C.	531	2,852	0	2,852
U. Wisconsin-River Falls	532	2,847	0	2,847
Northeastern Illinois U.	533	2,844	0	2,844
U. South Carolina Upstate	534	2,764	0	2,764
Skidmore C.	535	2,759	0	2,759
Central Washington U.	536	2,757	0	2,757
Marymount U.	537	2,749	0	2,749
CUNY, system office	538	2,723	0	2,723
Chicago State U.	539	2,701	0	2,701
Youngstown State U.	540	2,691	0	2,691
La Sierra U.	541	2,688	0	2,688
Lafayette C.	542	2,684	0	2,684
U. Texas of the Permian Basin	543	2,682	0	2,682
Black Hills State U.	544	2,646	0	2,646
U. Wisconsin-Green Bay	545	2,637	0	2,637
Northeast Ohio Medical U.	546	2,618	10,431	13,049



**Table 19. Higher education R&D expenditures at all institutions in the standard form survey population, ranked by all non-medical school R&D expenditures: FY 2024**

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
Rosalind Franklin U. of Medicine and Science	547	2,583	9,186	11,769
Pittsburg State U.	548	2,577	0	2,577
U. Illinois, Springfield	549	2,552	0	2,552
Virginia Military Institute	550	2,506	0	2,506
Calvin U.	551	2,490	0	2,490
New York Institute of Technology	552	2,473	4,086	6,559
SUNY, Buffalo State U.	553	2,453	0	2,453
California State U., Stanislaus	554	2,440	0	2,440
Seattle Pacific U.	555	2,414	0	2,414
U. Alaska, Southeast	556	2,398	0	2,398
Florida Polytechnic U.	557	2,391	0	2,391
John Carroll U.	558	2,378	0	2,378
Savannah State U.	559	2,376	0	2,376
Mount Holyoke C.	560	2,372	0	2,372
U. of the Pacific	561	2,362	0	2,362
Western Carolina U.	562	2,333	0	2,333
Morehead State U.	563	2,295	0	2,295
Union C., Schenectady	564	2,263	0	2,263
Utah Valley U.	565	2,254	0	2,254
Stockton U.	566	2,253	0	2,253
Manhattan C.	567	2,184	0	2,184
Colorado C.	568	2,178	0	2,178
U. Puerto Rico, Cayey	569	2,173	0	2,173
Alaska Pacific U.	570	2,168	0	2,168
Bates C.	571	2,066	0	2,066
Ferris State U.	572	2,046	0	2,046
U. Michigan, Flint	573	2,023	0	2,023
Lipscomb U.	574	2,011	0	2,011
Nevada State U.	575	1,989	0	1,989
Hobart and William Smith Colleges	576	1,984	0	1,984
Macalester C.	577	1,948	0	1,948
U. Hartford	578	1,944	0	1,944
SUNY, C. Brockport	579	1,932	0	1,932
U. Puerto Rico, Humacao	579	1,932	0	1,932
Northern Michigan U.	581	1,931	0	1,931
Oberlin C.	582	1,926	0	1,926
Southern Utah U.	583	1,897	0	1,897
Erikson Institute	584	1,889	0	1,889
Heidelberg U.	585	1,876	0	1,876
Norwich U.	586	1,875	0	1,875
Colorado State U., Pueblo	587	1,835	0	1,835
SUNY, Geneseo	588	1,820	0	1,820
Franklin W. Olin C. of Engineering	589	1,819	0	1,819
Claflin U.	590	1,816	0	1,816
U. North Georgia	591	1,805	0	1,805
United Tribes Technical C.	592	1,800	0	1,800
Babson C.	593	1,783	0	1,783
Biola U.	594	1,761	0	1,761
Andrews U.	595	1,751	0	1,751
Dickinson C.	596	1,743	0	1,743

**Table 19. Higher education R&D expenditures at all institutions in the standard form survey population, ranked by all non-medical school R&D expenditures: FY 2024**

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
Pratt Institute	597	1,709 i	0 i	1,709 i
Arcadia U.	598	1,692	0	1,692
U. Ana G. Mendez, Gurabo	599	1,660	0	1,660
Saint John's U.	600	1,623 i	0 i	1,623 i
U. South Carolina, Aiken	601	1,609	0	1,609
Hartford International U. for Religion and Peace	602	1,599 i	0 i	1,599 i
Pennsylvania State U., Altoona	603	1,572	0	1,572
St. Edward's U.	604	1,570	0	1,570
Eckerd C.	605	1,558	0	1,558
C. of Saint Benedict	606	1,536 i	0 i	1,536 i
U. Hawaii, Maui C.	607	1,518	0	1,518
CUNY, York C.	608	1,515	0	1,515
St. Olaf C.	609	1,500	0	1,500
Drake U.	610	1,485	0	1,485
Willamette U.	611	1,470	0	1,470
Kenyon C.	612	1,466	0	1,466
National U. of Natural Medicine	612	1,466 i	0 i	1,466 i
SUNY, C. Plattsburgh	614	1,465	0	1,465
U. Virginia's C. Wise	615	1,464	0	1,464
New C. Florida	616	1,459	0	1,459
Wheaton C., Wheaton	617	1,445	0	1,445
Eastern Kentucky U.	618	1,435	0	1,435
U. Scranton	618	1,435	0	1,435
Eastern Connecticut State U.	620	1,420	0	1,420
Roosevelt U.	621	1,418	0	1,418
Robert Morris U.	622	1,412	0	1,412
U. North Carolina, general administration	623	1,403	0	1,403
Loyola U., Maryland	624	1,362	0	1,362
U. of Mary Washington	625	1,333	0	1,333
Butler U.	626	1,313	0	1,313
C. Wooster	627	1,296	0	1,296
Radford U.	628	1,291	0	1,291
Midwestern State U.	629	1,261	0	1,261
U. Puget Sound	630	1,248	0	1,248
SUNY, Polytechnic Institute	631	1,234	0	1,234
Weber State U.	632	1,217	0	1,217
California Lutheran U.	633	1,201	0	1,201
Western New England U.	633	1,201 i	0 i	1,201 i
Liberty U.	635	1,179	418	1,597
U. South Carolina, Beaufort	636	1,177	0	1,177
Illinois C. of Optometry	637	1,158	0	1,158
Juniata C.	638	1,155	0	1,155
Gettysburg C.	639	1,154	0	1,154
SUNY, Cobleskill	640	1,149	0	1,149
Indiana State U.	641	1,138	0	1,138
Nicholls State U.	642	1,120	0	1,120
Albany C. of Pharmacy and Health Sciences	643	1,113	0	1,113
Denison U.	644	1,110 i	0 i	1,110 i
Connecticut C.	645	1,096	0	1,096
Elizabeth City State U.	646	1,078	0	1,078

**Table 19. Higher education R&D expenditures at all institutions in the standard form survey population, ranked by all non-medical school R&D expenditures: FY 2024**

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
Indiana U., South Bend	647	1,071	0	1,071
Aaniiih Nakoda C.	648	1,045	0	1,045
Southern Oregon U.	649	1,023	0	1,023
Ursinus C.	650	1,015	0	1,015
St. Bonaventure U.	651	1,003	0	1,003
High Point U.	652	1,000	0	1,000
Johnson C. Smith U.	653	936	0	936
Plymouth State U.	654	934	0	934
U. Minnesota, Rochester	655	921	0	921
Valparaiso U.	656	918	0	918
U. North Texas, Dallas	657	911	0	911
Keene State C.	658	844	0	844
St. Catherine U.	659	824	0	824
Northwestern State U. Louisiana	660	798	0	798
Polytechnic U. Puerto Rico	661	796	0	796
Auburn U., Montgomery	662	779	0	779
Palmer C. of Chiropractic, Davenport	663	750	0	750
Berry C.	664	670	0	670
Bryant U.	665	459	0	459
New York Medical C.	666	413	21,439	21,852
Carthage C.	667	188	0	188
Lincoln Memorial U.	668	143	1,613	1,756
Touro U., California	669	76	2,280	2,356
Medical C. Wisconsin	670	16	360,293	360,309
Albany Medical C.	-	0	23,054	23,054
Albert Einstein C. of Medicine	-	0	360,789	360,789
Eastern Virginia Medical School	-	0	27,891	27,891
Edward Via C. of Osteopathic Medicine	-	0	8,132	8,132
Icahn School of Medicine at Mount Sinai	-	0	1,015,600	1,015,600
Louisiana State U., Health Sciences Center, Shreveport	-	0	31,887	31,887
Oklahoma State U., Center for Health Sciences	-	0	16,054	16,054
U. Arkansas for Medical Sciences	-	0	226,842	226,842
U. Central del Caribe	-	0	3,780	3,780
U. Massachusetts, Medical School	-	0	349,616	349,616
West Virginia School of Osteopathic Medicine	-	0	1,491	1,491

i = imputed.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$2,549,821 thousand in total R&D expenditures in FY 2024.<sup>b</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.<sup>c</sup> The University of Oklahoma includes expenditures from the University of Oklahoma, Tulsa and University of Oklahoma, Norman and Health Science Center campuses. Due to a reorganization, the campuses began reporting as one unit in FY 2024.**Note(s):**Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 5](#).**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2024.

Table 20. Higher education R&D expenditures at public institutions in the standard form survey population, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds								
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources			
All institutions	-	76,943,160	40,313,829	5,556,472	21,165,843	3,757,754	3,540,122	2,609,140			
U. California, San Francisco	1	2,127,637	1,036,633	46,546	473,695	132,890	165,964	271,909			
U. Michigan, Ann Arbor	2	2,110,961	1,165,494	3,715	740,911	104,709	88,134	7,998			
U. Wisconsin-Madison	3	1,933,229	930,647	148,556	598,710	46,036	158,015	51,265			
U. California, Los Angeles	4	1,896,227	980,183	168,042	368,710	89,042	131,834	158,416			
U. California, San Diego	5	1,881,289	1,151,518	76,337	317,049	100,768	110,616	125,001			
U. Washington, Seattle	6	1,691,302	1,135,734	49,220	122,931	77,432	228,765	77,220			
U. North Carolina, Chapel Hill	7	1,598,751	949,913	53,113	419,777	55,872	96,865	23,211			
Ohio State U.	8	1,581,570	774,210	69,898	461,917	159,497	67,141	48,907			
U. Maryland <sup>a</sup>	9	1,539,520	922,237	87,160	434,436	37,805	53,551	4,331			
Georgia Institute of Technology	10	1,528,637	1,213,430	138,147	75,634	63,454	28,527	9,445			
U. Pittsburgh, Pittsburgh	11	1,504,665	967,978	9,876	356,043	39,636	76,290	54,842			
U. Minnesota, Twin Cities	12	1,409,710	748,229	89,087	412,003	50,458	38,966	70,967			
Texas A&M U., College Station and Health Science Center	13	1,393,825	582,674	285,545	394,343	36,960	54,695	39,608			
U. Texas M. D. Anderson Cancer Center	14	1,363,321	282,431	325,677	297,453	262,997	44,980	149,783			
Pennsylvania State U., University Park and Hershey Medical Center	15	1,302,971	858,666	55,826	294,157	37,874	31,390	25,058			
U. Florida	16	1,272,493	581,252	202,443	358,541	37,093	54,794	38,370			
U. Texas, Austin	17	1,143,917	690,835	36,746	252,904	94,028	59,786	9,618			
U. California, Berkeley	18	1,126,782	518,011	56,947	259,116	46,138	113,409	133,161			
U. Arizona	19	1,012,404	471,394	48,878	301,676	25,270	30,945	134,241			
U. California, Davis	20	1,005,757	505,442	81,315	282,121	35,486	51,037	50,356			
Arizona State U.	21	1,003,271	396,431	108,290	337,060	22,795	112,839	25,856			
Michigan State U.	22	931,848	474,762	47,478	338,809	26,590	21,677	22,532			
Purdue U., West Lafayette	23	931,513	451,802	43,893	280,219	72,672	31,385	51,542			
U. Illinois, Urbana-Champaign	24	906,751	511,574	29,114	258,312	45,694	36,634	25,423			
Indiana U., Bloomington	25	896,983	456,845	9,409	323,571	35,596	70,012	1,550			
U. Texas Southwestern Medical Center	26	869,297	359,693	103,480	206,864	52,541	65,336	81,383			
U. Alabama, Birmingham	27	865,868	498,148	18,482	232,305	71,057	41,550	4,326			
Rutgers, State U. New Jersey, New Brunswick	28	836,800	408,320	121,387	174,001	88,835	40,690	3,567			
U. Virginia, Charlottesville	29	813,772	394,731	24,266	258,706	34,227	33,507	68,335			
U. Utah	30	789,271	453,025	4,358	236,568	57,158	33,428	4,734			
U. Colorado Anschutz Medical Campus	31	741,643	498,397	33,329	69,814	61,906	60,039	18,158			
U. Cincinnati	32	739,878	411,205	8,611	200,709	53,909	46,333	19,111			
U. Colorado Boulder	33	717,920	567,693	6,972	47,178	15,686	19,363	61,028			
North Carolina State U.	34	717,004	316,076	150,086	182,150	62,040	5,622	1,030			
U. Iowa	35	703,326	338,639	5,280	251,469	39,196	28,018	40,724			
U. Nebraska, Lincoln and Medical Center	36	657,468	301,070	72,315	194,687	32,109	28,830	28,457			

Table 20. Higher education R&D expenditures at public institutions in the standard form survey population, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds												
			Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources		
Virginia Polytechnic Institute and State U.	37	656,916		308,282		80,644		203,511		34,282		20,079		10,118	
U. California, Irvine	38	644,948		384,504		29,998		125,145		32,229		36,440		36,632	
U. Georgia	39	628,117		255,117		62,113		273,844		11,536		15,339		10,168	
Uniformed Services U. of the Health Sciences	40	569,050		482,223		0		82,302		0		4,525		0	
U. Kansas	41	546,110		245,710		45,633		180,481		43,745		15,663		14,878	
Oregon Health and Science U.	42	545,214		389,585		1,484		56,618		54,397		42,968		162	
SUNY, U. Buffalo	43	541,880		284,562		41,118		149,921		27,287		30,731		8,261	
U. Illinois, Chicago	44	532,181		299,986		11,638		170,549		10,246		31,787		7,975	
U. Kentucky	45	527,658		273,724		31,173		172,167		11,497		12,298		26,799	
Virginia Commonwealth U.	46	524,295		208,743		47,241		192,462		22,757		21,202		31,890	
U. South Florida	47	521,892		272,483		34,971		175,897		14,416		21,384		2,741	
U. Missouri, Columbia	48	508,580		241,938		66,965		155,500		25,527		12,426		6,224	
U. Oklahoma <sup>b</sup>	49	474,043		225,360		25,541		190,971		19,086		11,645		1,440	
SUNY, U. Albany	50	471,605		104,769		24,055		133,688		199,914		2,776		6,403	
Colorado State U., Fort Collins	51	466,386		300,857		25,088		82,212		14,380		25,139		18,710	
U. Delaware	52	465,780		229,392		12,408		196,593		4,611		8,527		14,249	
Iowa State U.	53	462,347		216,003		37,520		168,223		25,087		14,900		614	
Florida State U.	54	460,733		204,544		53,897		185,427		3,611		7,364		5,890	
Utah State U.	55	451,379		364,880		30,532		30,056		5,821		1,017		19,073	
U. Connecticut	56	433,545		253,110		8,235		143,866		11,132		12,032		5,170	
Louisiana State U., Baton Rouge	57	431,439		142,226		78,318		181,877		15,478		8,008		5,532	
U. Texas Health Science Center, Houston	58	419,123		227,118		54,172		71,928		16,717		39,606		9,582	
Washington State U.	59	403,369		221,721		62,652		89,196		13,656		13,948		2,196	
Auburn U., Auburn	60	393,557		157,999		35,124		177,767		10,785		2,223		9,659	
Wichita State U.	61	392,333		182,881		18,197		40,527		150,338		284		106	
U. Tennessee, Knoxville	62	386,949		180,010		12,857		171,819		8,618		8,377		5,268	
U. Hawaii, Manoa	63	375,631		237,482		19,135		94,425		2,404		20,226		1,959	
Oregon State U.	64	371,904		244,264		65,289		34,259		8,736		3,962		15,394	
U. New Mexico	65	354,874		221,867		16,205		90,275		6,913		17,064		2,550	
U. Massachusetts, Medical School	66	349,616		231,375		965		58,157		23,235		28,622		7,262	
Mississippi State U.	67	342,132		161,636		94,335		73,319		2,363		7,593		2,886	
Clemson U.	68	338,533		161,658		33,501		115,530		21,905		5,658		281	
Florida International U.	69	325,785		165,202		17,608		125,955		3,400		10,603		3,017	
Medical U. South Carolina	70	320,990		173,379		6,517		92,990		37,783		10,019		302	
SUNY, Stony Brook U.	71	319,258		186,497		18,940		91,073		9,016		10,593		3,139	
Temple U.	72	314,999		159,138		7,534		97,116		25,560		17,948		7,703	
U. Texas Health Science Center, San Antonio	73	312,791		165,935		34,401		76,536		9,666		26,149		104	

Table 20. Higher education R&D expenditures at public institutions in the standard form survey population, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds											
				Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources	
U. California, Santa Barbara	74	303,446		171,188		8,851		68,925		8,616		26,042		19,824	
Wayne State U.	75	291,689		151,878		13,415		92,709		5,468		23,022		5,197	
U. Central Florida	76	284,943		135,779		7,173		124,075		9,751		3,765		4,400	
U. Massachusetts, Amherst	77	281,730		146,876		14,334		95,753		9,135		10,249		5,383	
George Mason U.	78	281,697		147,327		3,573		77,715		6,440		42,333		4,309	
U. South Carolina, Columbia	79	277,329		144,878		13,366		100,137		4,268		10,409		4,271	
Kansas State U.	80	264,961		83,225		64,727		97,529		7,460		10,689		1,331	
West Virginia U.	81	259,072		129,896		10,318		82,900		5,993		3,621		26,344	
Montana State U., Bozeman	82	257,927		158,999		21,347		67,761		962		5,029		3,829	
Texas Tech U.	83	256,919		62,892		32,349		133,084		14,831		13,669		94	
U. Louisiana, Lafayette	84	254,883		94,237		13,114		53,475		93,705		352		0	
Oklahoma State U., Stillwater	85	253,770		76,701		24,828		137,040		11,792		2,780		629	
U. Alaska, Fairbanks	86	246,295		168,918		16,342		48,136		7,430		3,582		1,887	
U. Vermont	87	246,240		138,601		566		86,795		4,475		7,620		8,183	
Georgia State U.	88	241,115		96,654		4,720		122,041		3,000		13,367		1,333	
U. Texas Medical Branch	89	241,072		161,678		8,912		54,442		5,384		10,656		0	
U. Houston	90	238,996		103,963		26,168		86,413		10,060		7,401		4,991	
U. California, Riverside	91	231,596		126,339		13,887		66,571		3,271		11,713		9,815	
U. Arkansas, Fayetteville	92	230,626		95,784		41,571		67,679		7,050		5,560		12,982	
U. New Hampshire	93	230,224		151,886		1,270		55,530		10,012		10,581		945	
U. Arkansas for Medical Sciences	94	226,842	i	102,854	i	14,946	i	91,231	i	5,690	i	6,583	i	5,538	i
U. Louisville	95	224,969		89,978		13,416		77,479		9,906		8,708		25,482	
U. Alabama, Tuscaloosa	96	221,235		112,199		17,606		85,564		1,830		3,077		959	
U. California, Santa Cruz	97	218,426		117,064		6,610		65,182		2,629		19,623		7,318	
North Dakota State U.	98	199,885		57,705		55,061		76,985		1,626		1,105		7,403	
U. Maine	99	198,870		101,733		19,313		67,471		4,987		3,660		1,706	
U. North Dakota	100	197,428		83,377		37,661		58,808		15,950		558		1,074	
U. Nevada, Reno	101	194,131		89,152		8,576		81,898		3,097		2,485		8,923	
U. Mississippi	102	189,910		102,574		9,911		68,678		2,501		5,634		612	
U. Texas, Dallas	103	181,795		82,438		29,300		39,786		13,742		16,255		274	
San Diego State U.	104	181,600		74,414		11,379		87,259		903		4,014		3,631	
U. Oregon	105	174,785		105,290		2,327		23,681		663		7,619		35,205	
New Jersey Institute of Technology	106	171,741		90,947		8,025		64,784		906		1,341		5,738	
U. Texas, San Antonio	107	171,528		60,101		25,628		72,157		8,580		1,821		3,241	
U. Wyoming	108	167,306		73,731		8,089		79,100		3,713		1,693		980	
Augusta U.	109	166,219		73,564		310		78,326		5,432		7,897		690	
Texas State U.	110	165,047		48,686		25,547		83,632		1,492		5,521		169	

Table 20. Higher education R&D expenditures at public institutions in the standard form survey population, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds											
				Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources	
SUNY, Binghamton U.	111	160,644		31,348		5,623		115,176		4,308		2,069		2,120	
U. Texas, El Paso	112	157,574		74,836		18,373		49,884		1,100		2,321		11,060	
U. Alabama, Huntsville	113	154,494		115,434		5,254		31,704		941		499		662	
U. Texas, Arlington	114	153,780		62,500		31,989		46,231		5,058		5,866		2,136	
U. Maryland, Baltimore County	115	150,908		91,886		8,440		43,363		3,080		3,179		960	
U. Montana, Missoula	116	143,810		88,952		1,267		49,820		1,018		2,253		500	
New Mexico State U.	117	142,872		84,715		27,644		18,535		1,973		3,694		6,311	
U. Idaho	118	140,413		61,960		49,917		21,808		1,666		1,179		3,883	
U. Rhode Island	119	137,462		111,503		3,309		16,517		1,530		3,867		736	
U. Tennessee, Health Science Center	120	124,771		64,800		7,820		34,014		4,588		5,624		7,925	
U. North Texas, Denton	121	124,219		43,136		5,131		68,263		2,010		5,302		377	
U. Massachusetts, Lowell	122	120,672		59,711		3,043		47,037		5,732		3,971		1,178	
U. Nevada, Las Vegas	123	118,049		46,258		2,904		62,549		1,087		1,268		3,983	
U. North Texas, Health Science Center	124	110,499		90,722		3,351		14,780		830		803		13	
Colorado School of Mines	125	109,905		71,415		2,655		14,794		12,464		3,070		5,507	
U. Memphis	126	108,862		34,728		10,883		59,120		960		3,081		90	
Michigan Technological U.	127	106,919		55,980		1,667		40,642		5,791		888		1,951	
U. North Carolina, Charlotte	128	94,895		36,444		608		54,032		3,106		656		49	
William & Mary	129	94,609		41,488		3,683		36,864		2,097		6,884		3,593	
Northern Arizona U.	130	93,749		62,399		11,280		16,520		1,120		2,301		129	
U. Southern Mississippi	131	93,692		53,044		12,958		26,151		543		996		0	
U. Texas Rio Grande Valley	132	90,610		35,014		8,901		41,911		918		3,753		113	
Indiana U.-Purdue U., Indianapolis	133	88,989		41,004		3,168		34,877		3,597		6,186		157	
San Jose State U.	134	88,125		37,503		8,015		36,595		1,480		3,206		1,326	
Florida Atlantic U.	135	87,906		35,414		8,801		32,146		2,529		7,427		1,589	
Cleveland State U.	136	85,839		53,415		2,545		19,747		2,743		7,245		144	
South Dakota State U.	137	82,246		36,703		18,526		7,060		1,976		4,008		13,973	
North Carolina A&T State U.	138	81,845		44,751		5,699		30,653		250		399		93	
CUNY, Graduate Center	139	80,831		3,157		222		73,562		171		2,993		726	
New Mexico Institute of Mining and Technology	140	79,857		57,649		14,281		4,623		2,483		188		633	
Louisiana State U., Health Sciences Center, New Orleans	141	79,680		35,394		518		35,179		4,153		4,228		208	
U. California, Office of the President	142	79,293		0		38,249		40,597		0		159		288	
U. North Carolina, Greensboro	143	77,370		44,726		6,523		23,315		606		1,894		306	
U. California, Merced	144	77,233		39,951		10,740		20,759		1,523		2,836		1,424	
Old Dominion U.	145	76,202		32,045		13,307		26,196		785		2,260		1,609	
U. Massachusetts, Boston	146	74,625		28,676		9,415		26,216		2,146		7,721		451	
Naval Postgraduate School	147	73,230		62,115		0		9,811		794		141		369	



Table 20. Higher education R&D expenditures at public institutions in the standard form survey population, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds									
				Federal government		State and local government		Institution funds		Business	Nonprofit organizations		All other sources
U. Toledo	148	73,200		41,525		1,750		22,812		1,429	5,650		34
East Carolina U.	149	72,539		30,338		4,697		29,538		4,424	3,033		509
CUNY, City C.	150	71,684		38,727		15,407		14,805		517	1,561		667
U. South Alabama	151	70,084		32,361		75		32,984		719	3,775		170
Missouri U. of Science and Technology	152	69,534		38,058		2,857		19,176		4,192	767		4,484
Florida A&M U.	153	68,674		57,545		1,699		7,276		830	1,324		0
Ohio U.	154	67,430		25,975		1,207		34,587		3,697	896		1,068
U. Wisconsin-Milwaukee	155	66,270		27,698		19,398		15,026		1,487	1,290		1,371
Rowan U.	156	63,984		21,291		12,264		25,866		2,968	1,595		0
Western Michigan U. and Homer Stryker M.D. School of Medicine	157	62,063		11,928		3,043		40,757		3,829	763		1,743
Southern Illinois U., Carbondale	158	61,460		18,282		2,941		32,164		7,544	529		0
U. Puerto Rico, Medical Sciences Campus	159	61,453		47,952		618		10,708		2,175	0		0
Kent State U.	160	61,437		18,251		1,317		38,653		953	2,150		113
SUNY, Upstate Medical U.	161	59,482		38,105		2,075		8,950		5,804	2,858		1,690
Boise State U.	162	57,749		38,325		3,116		14,043		344	1,292		629
U. Missouri, Kansas City	163	57,030		27,638		2,522		20,433		473	2,125		3,839
Morgan State U.	164	55,506		37,110		9,258		7,850		511	557		220
Air Force Institute of Technology	165	54,204		44,128		0		10,011		65	0		0
U. Maryland Center for Environmental Science	166	54,036		16,689		26,498		7,471		210	3,168		0
U.S. Air Force Academy	167	53,158		51,933		0		0		707	0		518
Texas Tech U., Health Sciences Center	168	52,986		16,721		19,412		10,074		1,110	3,367		2,302
Texas A&M U.-Corpus Christi	169	52,175		20,750		11,854		8,224		642	4,408		6,297
Portland State U.	170	51,677		35,955		5,048		8,085		246	1,960		383
Kennesaw State U.	171	51,575		7,668		522		41,194		184	2,007		0
Georgia Southern U.	172	46,093		4,075		508		35,873		5,449	180		8
CUNY, Hunter C.	173	45,223		22,412		3,109		17,263		751	1,223		465
Montclair State U.	174	43,798		7,489		682		34,306		1	1,320		0
Delaware State U.	175	43,724		28,488		5,383		7,969		242	1,632		10
U. West Florida	176	43,503		17,226		1,737		23,807		256	477		0
East Tennessee State U.	177	42,526		11,338		2,191		25,260		138	3,554		45
U. Massachusetts, Dartmouth	178	42,352		14,803		1,969		22,063		2,193	1,159		165
San Francisco State U.	179	42,000		16,033		2,908		15,979		11	7,069		0
Marshall U.	180	39,178		21,348		1,143		13,803		535	2,349		0
SUNY, C. of Environmental Science and Forestry	181	38,661		8,133		19,729		6,831		505	1,481		1,982
Oakland U.	182	38,508		13,684		2,814		12,950		4,086	3,102		1,872
California Polytechnic State U., San Luis Obispo	183	38,133		14,234		6,320		14,662		777	2,077		63
SUNY, Downstate Health Sciences U.	184	37,322		28,276		147		5,699		333	2,223		644

Table 20. Higher education R&D expenditures at public institutions in the standard form survey population, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds								
				Federal government		State and local government		Institution funds		Business	Nonprofit organizations	
Tennessee Technological U.	185	36,399		14,602	6,800	14,473	109	167		248		
U. Nebraska, Omaha	186	35,134		25,294	3,486	4,858	79	1,342		75		
Tennessee State U.	187	35,017		20,520	1,098	12,964	297	96		42		
Northern Illinois U.	188	34,467		14,151	2,228	16,852	721	282		233		
Illinois State U.	189	34,238		13,132	3,074	16,619	474	924		15		
California State U., Sacramento	190	33,952		10,567	15,258	6,443	45	1,070		569		
California State U., Long Beach	191	33,897		24,285	2,637	4,541	452	1,602		380		
California State U., Fullerton	192	33,709		5,372	680	27,012	86	559		0		
U. Puerto Rico, Rio Piedras	193	33,659		19,254	113	13,532	117	579		64		
Desert Research Institute	194	32,250		25,072	1,490	3,785	673	460		770		
Louisiana State U., Health Sciences Center, Shreveport	195	31,887		18,040	182	7,064	2,052	4,549		0		
CUNY, Queens C.	196	31,845		19,019	6,805	5,641	9	287		84		
Texas A&M U.-Kingsville	197	31,751		14,728	6,729	3,793	917	5,544		40		
Prairie View A&M U.	198	31,632		18,433	9,262	2,156	1,052	729		0		
Louisiana Tech U.	199	31,247		10,178	1,404	16,539	656	0		2,470		
U. Minnesota, Duluth	200	29,901		8,999	7,237	13,383	174	36		72		
CUNY, Graduate School of Public Health and Health Policy	201	28,637		16,788	1,873	4,034	4,236	1,578		128		
Miami U.	202	28,566		11,085	1,481	12,474	1,284	1,135		1,107		
U. South Dakota	203	27,908		13,807	419	12,794	89	355		444		
Eastern Virginia Medical School	204	27,891		21,658	676	2,650	2,250	646		11		
Central Michigan U.	205	27,429		11,541	46	12,951	666	1,312		913		
California State U., Northridge	206	27,009		16,778	1,546	7,057	281	1,347		0		
California State Polytechnic U., Humboldt	207	26,607		5,257	5,318	7,454	1,048	4,417		3,113		
U. Puerto Rico, Mayaguez	208	26,455		17,027	1,010	6,321	644	843		610		
U. Texas Health Science Center, Tyler	209	26,240		8,444	11,247	2,550	433	3,566		0		
Rutgers, State U. New Jersey, Newark	210	26,222		17,099	525	5,416	216	2,745		221		
U. Guam	211	25,306		20,986	2,366	1,777	10	167		0		
Tarleton State U.	212	24,875		4,718	5,041	14,183	244	689		0		
Jackson State U.	213	24,744		20,528	333	2,253	0	1,293		337		
U. Alaska, Anchorage	214	24,649		14,204	1,964	6,554	378	741		808		
U. Akron	215	24,568		12,910	368	8,480	1,900	788		122		
U. Colorado Denver	216	24,313		18,293	3,006	851	396	1,356		411		
South Dakota School of Mines and Technology	217	23,941		18,006	2,329	2,587	358	17		644		
Florida Gulf Coast U.	218	23,841		11,117	4,771	3,819	120	3,994		20		
Western Washington U.	219	23,275		8,949	1,285	11,431	355	917		338		
U. North Carolina, Wilmington	220	22,672		9,547	6,832	3,901	1,602	565		225		
Wright State U.	221	22,647		15,597	1,385	4,730	638	178		119		

Table 20. Higher education R&D expenditures at public institutions in the standard form survey population, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds							
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources		
Montana Technological U.	222	22,588	13,993	6,159	2,174	262	0	0		
CUNY, Advanced Science Research Center	223	22,464	15,129	1,084	4,384	132	1,418	317		
U.S. Military Academy	224	22,292	20,577	0	191	190	1,259	75		
James Madison U.	225	21,394	3,482	1,814	15,118	0	968	12		
CUNY, John Jay C. of Criminal Justice	226	21,156	7,340	7,513	3,430	190	2,296	387		
Bowling Green State U.	227	19,615	8,204	2,191	8,507	59	654	0		
U. North Florida	228	19,318	5,667	2,216	10,222	881	317	15		
U. New Orleans	229	19,311	5,950	1,209	9,878	416	1,016	842		
Towson U.	230	19,215	5,432	304	13,077	179	176	47		
Texas Southern U.	231	19,045	12,131	2,002	4,797	0	115	0		
Southern Illinois U., Edwardsville	232	17,673	4,012	273	12,278	911	197	2		
Idaho State U.	233	17,494	8,964	2,448	5,121	431	207	323		
Sam Houston State U.	234	16,716	6,089	303	9,851	20	453	0		
Alabama A&M U.	235	16,248	12,701	105	3,046	396	0	0		
North Carolina Central U.	236	16,212	12,241	1,954	NA	597	208	1,212		
Missouri State U.	237	16,103	13,473	532	1,135	690	255	18		
Oklahoma State U., Center for Health Sciences	238	16,054	6,186	1,642	8,032	76	118	0		
Texas Tech U., Health Sciences Center, El Paso	239	15,603	3,701	3,288	7,646	271	697	0		
CUNY, Brooklyn C.	240	15,244	5,714	2,011	6,910	183	408	18		
Alcorn State U.	241	14,844	10,148	4,366	281	31	18	0		
U. of the Virgin Islands	242	14,762	13,422	1,000	340	0	0	0		
U. Missouri, Saint Louis	243	14,698	5,273	33	6,434	265	2,011	682		
U. Hawaii, system office	244	14,542	14,534	0	8	0	0	0		
Salisbury U.	245	14,422	5,292	5,198	3,827	5	100	0		
California State U., Fresno	246	14,410	6,203	1,934	4,157	448	1,583	85		
California State U., East Bay	247	14,307	9,172	263	4,317	31	275	249		
California State Polytechnic U., Pomona	248	13,685	10,621	1,246	1,173	100	238	307		
Kentucky State U.	249	13,534	7,244	4,792	1,385	0	113	0		
U. Maryland, Eastern Shore	250	13,422	11,752	567	1,061	0	42	0		
Langston U.	251	13,340	7,583	0	5,661	96	0	0		
Virginia State U.	252	13,271	6,684	4,144	2,175	0	208	60		
Ball State U.	253	13,095	6,935	463	4,780	532	368	17		
Northeast Ohio Medical U.	254	13,049	9,018	68	3,242	0	721	0		
California State U., San Marcos	255	12,788	10,758	1,268	430	0	332	0		
Winston-Salem State U.	256	12,650	11,818	574	0	0	258	0		
South Carolina State U.	257	12,496	8,936	2,518	692	350	0	0		
U. Michigan, Dearborn	258	12,460	5,742	11	4,579	1,832	281	15		

Table 20. Higher education R&D expenditures at public institutions in the standard form survey population, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds											
				Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources	
U. Tennessee, Chattanooga	259	12,104		4,563		310		6,358		72		384		417	
Fort Valley State U.	260	11,727		6,246		5,481		0		0		0		0	
California State U., Monterey Bay	261	11,717		5,717		2,920		2,758		11		311		0	
West Texas A&M U.	262	11,616		1,990		6,648		2,163		776		39		0	
Central State U.	263	11,459		4,749		4,702		2,008		0		0		0	
California State U., San Bernardino	264	11,339		6,998		1,652		1,924		0		765		0	
Appalachian State U.	265	11,293		4,178		830		5,017		713		555		0	
Western Kentucky U.	266	11,213		4,511		1,046		5,449		69		123		15	
Eastern Michigan U.	267	11,202		3,500		1,525		5,736		84		357		0	
Arkansas State U., Jonesboro	268	10,950		3,744		3,148		3,936		122		0		0	
California State U., Los Angeles	269	10,889		9,598		139		1,037		0		115		0	
U.S. Naval Academy	270	10,592		10,172		0		241		0		179		0	
U. Arkansas, Little Rock	271	10,461		9,624		373		63		4		362		35	
Rutgers, State U. New Jersey, Camden	272	9,849		2,772		1,907		3,712		892		561		5	
Purdue U., Northwest	273	9,549		4,036		983		2,442		597		590		901	
Kean U.	274	9,479		3,130		1,364		4,436		72		477		0	
U. of the District of Columbia	275	9,386		6,253		0		3,133		0		0		0	
Lincoln U., Jefferson City	276	9,261	i	5,189	i	4,033	i	39	i	0	i	0	i	0	i
Texas Woman's U.	277	8,998		3,026		2,384		2,507		180		901		0	
Southern U. and A&M C., Agricultural Research and Extension Center	278	8,969		5,876		3,025		38		0		30		0	
California State U., Chico	279	8,918		2,964		2,874		1,146		233		475		1,226	
Middle Tennessee State U.	280	8,736		3,542		441		4,229		43		478		3	
C. Charleston	281	8,662		5,698		701		1,536		119		518		90	
U. Hawaii, Hilo	282	8,501		6,015		121		894		69		1,381		21	
U. Northern Colorado	283	8,476		1,325		125		6,847		28		151		0	
California State U., Bakersfield	284	8,457		4,979		106		3,223		0		149		0	
Texas A&M International U.	285	8,378		3,903		1,178		2,382		177		738		0	
U. Wisconsin-Superior	286	8,355		7,452		149		462		0		35		257	
Lamar U.	287	8,324		2,572		4,837		540		227		148		0	
U. Arkansas, Pine Bluff	288	7,975		4,728		1,304		1,893		7		43		0	
U. Washington, Tacoma	289	7,973		5,319		601		814		19		1,053		167	
Southern Connecticut State U.	290	7,620		1,159		237		5,646		58		431		89	
U. Colorado Colorado Springs	291	7,528		6,025		26		989		308		65		115	
Norfolk State U.	292	7,309		4,918		313		1,139		134		672		133	
Texas A&M U.-San Antonio	293	7,149		3,916		176		2,779		69		201		8	
Pennsylvania State U., Behrend	294	7,054		3,920		439		1,818		632		245		0	
Grand Valley State U.	295	7,041	i	2,035	i	509	i	3,289	i	0	i	661	i	547	i

Table 20. Higher education R&D expenditures at public institutions in the standard form survey population, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds											
				Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources	
Northwest Indian C.	296	6,988	i	5,172	i	0	i	1,816	i	0	i	0	i	0	i
Dine C.	297	6,960		4,692		878		730		0		660		0	
West Chester U. Pennsylvania	298	6,870		1,822		100		4,580		58		310		0	
U.S. Army War C.	299	6,819	i	6,793	i	5	i	6	i	5	i	5	i	5	i
Texas A&M U.-Commerce	300	6,811		2,412		922		2,865		0		563		49	
Indiana U. Pennsylvania	301	6,568		1,536		283		4,151		159		428		11	
Sul Ross State U.	302	6,546		3,900		244		1,811		100		210		281	
U. Southern Maine	303	6,545		2,862		3,460		198		0		25		0	
Oregon Institute of Technology	304	6,311	i	1,548	i	4,447	i	NA		110	i	206	i	0	i
CUNY, Lehman C.	305	6,259		4,313		0		1,468		427		41		10	
West Virginia State U.	306	6,059		3,779		1,951		305		0		24		0	
CUNY, Baruch C.	307	5,977		2,168		191		2,752		44		626		196	
Naval War C.	308	5,868		5,868		0		0		0		0		0	
U. Baltimore	309	5,797		3,471		1,832		NA		38		398		58	
California State U., Dominguez Hills	310	5,762		2,674		603		2,170		121		191		3	
CUNY, C. Staten Island	311	5,737		4,625		495		416		75		94		32	
Pennsylvania State U., Harrisburg	312	5,735		3,305		398		1,389		0		643		0	
U. North Carolina, Asheville	313	5,677		3,295		535		515		12		1,319		1	
Dakota State U.	314	5,652		2,111		260		855		1,388		0		1,038	
Southeastern Louisiana U.	315	5,577		1,688		339		881		2,653		16		0	
Southern U. and A&M C., Baton Rouge	316	5,483		5,298		73		34		78		0		0	
U. Washington, Bothell	317	5,320		4,149		126		595		60		385		5	
Coastal Carolina U.	318	5,094		2,341		1,131		1,404		0		218		0	
Austin Peay State U.	319	5,070		2,386		1,470		304		0		72		838	
Citadel Military C. South Carolina	320	4,969		4,699		63		207		0		0		0	
Sonoma State U.	321	4,928		3,755		770		322		19		62		0	
U. Wisconsin-Stevens Point	322	4,691		2,048		1,010		1,052		0		292		289	
Fort Lewis C.	323	4,582		3,866		30		149		0		537		0	
Stephen F. Austin State U.	324	4,502		951		1,630		1,325		111		333		152	
U. Central Oklahoma	325	4,495		1,950		80		2,277		125		19		44	
St. Cloud State U.	326	4,416		810		315		2,610		294		65		322	
U. Northern Iowa	327	4,409		3,220		416		620		0		153		0	
Albany State U.	328	4,163		3,973		66		0		58		21		45	
Western Illinois U.	329	4,142	i	3,574	i	151	i	44	i	255	i	0	i	118	i
New Mexico Highlands U.	330	4,074		3,348		497		166		0		63		0	
Fayetteville State U.	331	3,942		3,256		262		0		0		0		424	
East Stroudsburg U. Pennsylvania	332	3,916		1,071		2,064		735		0		46		0	

Table 20. Higher education R&D expenditures at public institutions in the standard form survey population, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds										
				Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources
Alabama State U.	333	3,901		3,408		0		0		0		493		0
Lake Superior State U.	334	3,876		1,826		137		774		140		53		946
California State U., Channel Islands	335	3,860		1,672		1,081		991		44		72		0
U. Nebraska, Kearney	336	3,796		1,645		773		1,306		56		0		16
Purdue U., Fort Wayne	337	3,791		265		903		1,216		151		349		907
SUNY, C. of Optometry	338	3,776		2,613		0		0		1,160		3		0
Christopher Newport U.	339	3,764		2,224		5		1,329		45		124		37
Bowie State U.	340	3,731		3,714		0		0		0		17		0
U. Wisconsin-Eau Claire	341	3,730		1,740		566		980		426		13		5
U. Texas, Tyler	342	3,632		1,976		294		539		462		361		0
Murray State U.	343	3,630		2,428		108		996		58		40		0
Saginaw Valley State U.	344	3,552	i	2,818	i	0	i	546	i	7	i	158	i	23
Winthrop U.	345	3,466		2,894		0		538		1		33		0
National Defense U.	346	3,459		3,459		0		0		0		0		0
U. Wisconsin-Oshkosh	347	3,443		1,904		328		929		158		124		0
Troy U.	348	3,318		2,441		36		587		10		191		53
Northern Kentucky U.	349	3,271		2,289		15		835		7		125		0
SUNY, Oswego	350	3,242		2,176		28		1,015		2		3		18
Minnesota State U., Mankato	351	3,235		977		248		1,596		0		44		370
U. Central Arkansas	352	3,142		1,823		666		517		80		12		44
U. Houston-Clear Lake	353	3,080		1,635		525		188		563		169		0
U. Wisconsin-La Crosse	354	3,068		1,051		721		571		631		94		0
U. Houston-Downtown	355	3,049		1,975		537		382		63		92		0
CUNY, New York City C. of Technology	356	3,033		2,260		0		347		0		419		7
Eastern Washington U.	357	2,957		1,722		999		NA		63		137		36
U. Louisiana, Monroe	358	2,940		2,083		605		115		11		126		0
C. New Jersey	359	2,857		1,779		183		470		0		425		0
U. Wisconsin-River Falls	360	2,847		575		2,160		54		37		21		0
Northeastern Illinois U.	361	2,844		2,844		0		0		0		0		0
U. South Carolina Upstate	362	2,764		566		0		2,162		3		33		0
Central Washington U.	363	2,757		1,693		616		253		20		151		24
CUNY, system office	364	2,723		2,051		266		406		0		0		0
Chicago State U.	365	2,701		2,701		0		0		0		0		0
Youngstown State U.	366	2,691		2,491		37		109		22		32		0
U. Texas of the Permian Basin	367	2,682		1,294		544		633		114		0		97
Black Hills State U.	368	2,646		2,304		148		193		0		0		1
U. Wisconsin-Green Bay	369	2,637		1,131		644		625		121		116		0

Table 20. Higher education R&D expenditures at public institutions in the standard form survey population, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds									
			Federal government		State and local government		Institution funds		Business	Nonprofit organizations		All other sources
Pittsburg State U.	370	2,577	1,199		1,034		NA		344	0		0
U. Illinois, Springfield	371	2,552	712		586		1,009		0	245		0
Virginia Military Institute	372	2,506	1,855		254		395		0	2		0
SUNY, Buffalo State U.	373	2,453	1,419		740		268		9	17		0
California State U., Stanislaus	374	2,440	1,705		514		154		65	2		0
U. Alaska, Southeast	375	2,398	1,492		41		561		6	158		140
Florida Polytechnic U.	376	2,391	939		380		908		109	55		0
Savannah State U.	377	2,376	2,376		0		0		0	0		0
Western Carolina U.	378	2,333	1,651		212		359		83	28		0
Morehead State U.	379	2,295	1,029		404		13		790	10		49
Utah Valley U.	380	2,254	1,306		492		368		0	88		0
Stockton U.	381	2,253	701		273		775		367	137		0
U. Puerto Rico, Cayey	382	2,173	1,259		0		574		0	340		0
Ferris State U.	383	2,046	1,103		629		226		57	31		0
U. Michigan, Flint	384	2,023	627		38		1,255		19	65		19
Nevada State U.	385	1,989	1,989		0		0		0	0		0
SUNY, C. Brockport	386	1,932	889		203		473		2	166		199
U. Puerto Rico, Humacao	386	1,932	1,759		0		173		0	0		0
Northern Michigan U.	388	1,931	752		4		946		11	152		66
Southern Utah U.	389	1,897	1,331		261		305		0	0		0
Colorado State U., Pueblo	390	1,835	i 1,072	i	226	i	394	i	0	i 0	i	143
SUNY, Geneseo	391	1,820	1,062		8		600		0	131		19
U. North Georgia	392	1,805	589		19		1,040		5	152		0
U. South Carolina, Aiken	393	1,609	1,183		3		415		0	8		0
Pennsylvania State U., Altoona	394	1,572	448		0		724		166	234		0
U. Hawaii, Maui C.	395	1,518	1,443		0		47		0	28		0
CUNY, York C.	396	1,515	1,318		0		156		0	41		0
West Virginia School of Osteopathic Medicine	397	1,491	342		0		1,149		0	0		0
SUNY, C. Plattsburgh	398	1,465	893		0		494		0	77		1
U. Virginia's C. Wise	399	1,464	1,207		87		149		0	16		5
New C. Florida	400	1,459	296		0		458		495	114		96
Eastern Kentucky U.	401	1,435	871		275		220		0	69		0
Eastern Connecticut State U.	402	1,420	197		0		1,223		0	0		0
U. North Carolina, general administration	403	1,403	0		0		1,403		0	0		0
U. of Mary Washington	404	1,333	610		3		667		0	53		0
Radford U.	405	1,291	84		143		986		37	41		0
Midwestern State U.	406	1,261	565		96		414		66	119		1



Table 20. Higher education R&D expenditures at public institutions in the standard form survey population, ranked by all R&D expenditures, by source of funds: FY 2024

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds											
				Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources	
SUNY, Polytechnic Institute	407	1,234		707		130		207		29		156		5	
Weber State U.	408	1,217		827		63		60		75		50		142	
U. South Carolina, Beaufort	409	1,177		615		27		469		0		66		0	
SUNY, Cobleskill	410	1,149		805		344		0		0		0		0	
Indiana State U.	411	1,138		838		17		189		65		16		13	
Nicholls State U.	412	1,120		558		396		19		25		122		0	
Elizabeth City State U.	413	1,078		642		430		0		6		0		0	
Indiana U., South Bend	414	1,071		250		12		707		0		88		14	
Aaniiih Nakoda C.	415	1,045		1,045		0		0		0		0		0	
Southern Oregon U.	416	1,023		749		129		22		95		28		0	
Plymouth State U.	417	934		805		21		96		0		12		0	
U. Minnesota, Rochester	418	921		0		0		896		0		0		25	
U. North Texas, Dallas	419	911		26		0		799		0		86		0	
Keene State C.	420	844		745		0		79		0		20		0	
Northwestern State U. Louisiana	421	798		618		13		167		0		0		0	
Auburn U., Montgomery	422	779		446		0		329		0		4		0	

i = imputed. NA = not available; data were not provided by institution.

<sup>a</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>b</sup> The University of Oklahoma includes expenditures from the University of Oklahoma, Tulsa and University of Oklahoma, Norman and Health Science Center campuses. Due to a reorganization, the campuses began reporting as one unit in FY 2024.

**Note(s):**  
Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 5](#).

**Source(s):**  
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2024.

Table 21. Total and federally financed higher education R&D expenditures at institutions in the standard form survey population in engineering, ranked by FY 2024 total: FYs 2021–24

(Dollars in thousands)

Institution	Rank	Total								Federally financed			
		2021		2022		2023		2024		2021	2022	2023	2024
All institutions	-	14,292,584		15,662,654		17,476,575		19,271,406		8,713,443	9,759,538	10,937,698	12,185,245
Johns Hopkins U. <sup>a</sup>	1	1,237,980	i	1,324,646	i	1,493,689	i	1,712,148	i	1,183,154	1,264,048	1,436,413	1,645,349
Georgia Institute of Technology	2	839,071		935,632		1,061,402		1,134,820		666,235	739,429	847,360	923,812
Texas A&M U., College Station and Health Science Center	3	385,656		402,999		464,769		496,787		123,286	138,068	170,864	176,573
Pennsylvania State U., University Park and Hershey Medical Center	4	378,667		385,594		453,476		471,961		284,244	300,829	348,549	374,697
U. Texas, Austin	5	279,730		319,719		360,947		418,949		194,110	216,881	249,098	258,113
Massachusetts Institute of Technology	6	382,569		397,946		404,440		413,889		193,246	215,477	226,746	240,944
Purdue U., West Lafayette	7	285,469		312,394		360,289		393,296		137,052	163,895	188,696	221,032
U. Michigan, Ann Arbor	8	279,682		299,254		324,306		371,562		180,607	189,405	206,437	239,934
Wichita State U.	9	157,430		226,111		336,096		360,009		64,692	88,257	136,780	174,719
Utah State U.	10	247,332		259,482		308,386		356,169		228,986	239,736	280,768	320,010
U. Illinois, Urbana-Champaign	11	216,233		228,786		272,650		351,544		139,887	144,390	176,925	235,831
SUNY, U. Albany	12	3,133		4,266		4,562		322,259		1,393	1,355	1,412	54,417
Virginia Polytechnic Institute and State U.	13	246,965		260,158		261,707		277,605		108,080	114,336	128,941	133,336
Arizona State U.	14	145,574		192,681		265,026		277,309		73,746	85,208	98,381	103,574
Ohio State U.	15	163,509		219,388		242,745		261,381		88,435	103,560	113,636	130,390
U. California, San Diego	16	177,564		212,583		176,720		250,772		100,212	129,923	114,380	161,714
U. Maryland <sup>b</sup>	17	154,163		164,304		183,899		218,811		95,898	104,247	112,818	135,156
North Carolina State U.	18	172,900		171,162		196,594		218,277		91,430	88,636	100,328	116,334
U. California, Berkeley	19	199,711		206,541		209,311		216,013		78,026	93,638	92,895	101,760
U. Dayton	20	180,158		195,856		198,049		211,395		171,865	189,150	188,040	201,784
U. Wisconsin-Madison	21	131,709		148,673		171,445		194,988		75,104	85,549	93,870	108,643
U. Washington, Seattle	22	157,622		172,004		180,277		188,972		119,758	127,827	139,691	144,745
U. Colorado Boulder	23	177,604		191,531		175,118		177,788		132,769	148,185	140,779	143,267
Cornell U.	24	118,621		125,320		149,807		176,068		72,771	73,646	84,312	96,296
U. Delaware	25	90,327		123,997		161,894		174,863		68,504	88,552	90,547	102,183
Stanford U.	26	136,251		142,213		158,868		164,503		89,861	89,919	100,033	102,868
U. Minnesota, Twin Cities	27	121,637		131,042		145,670		160,821		78,808	84,060	92,997	98,159
Carnegie Mellon U.	28	112,597		138,117		155,436		160,149		63,083	84,680	95,826	99,312
Iowa State U.	29	123,428		132,475		140,782		159,841		62,113	66,024	73,907	87,445
U. Florida	30	122,704		134,339		150,126		153,888		72,191	79,991	84,288	92,195
Northeastern U.	31	92,723		92,855		119,529		148,866		69,550	72,409	96,495	116,014
New York U.	32	99,307		119,160		132,311		142,831		18,633	20,507	24,015	27,857
Rice U.	33	100,872		110,648		129,719		137,077		46,799	53,851	61,759	63,505
U. California, Los Angeles	34	93,906		98,403		113,969		128,854		53,761	65,455	62,859	72,994
U. Tennessee, Knoxville	35	128,579		115,464		116,222		128,648		66,556	70,892	70,876	80,267
SUNY, U. Buffalo	36	100,194		109,870		123,383		124,566		66,790	67,985	83,743	89,397

Table 21. Total and federally financed higher education R&D expenditures at institutions in the standard form survey population in engineering, ranked by FY 2024 total: FYs 2021–24

(Dollars in thousands)

Institution	Rank	Total						Federally financed					
		2021	2022	2023	2024	2021	2022	2023	2024	2021	2022	2023	2024
U. Pennsylvania	37	88,937	106,282	112,740	124,526	49,526	54,427	56,036	63,768				
U. Virginia, Charlottesville	38	62,271	65,604	112,702	122,919	37,143	42,481	65,008	75,189				
Auburn U., Auburn	39	78,720	93,219	108,344	122,623	40,288	47,059	50,218	61,879				
Columbia U. in the City of New York	40	75,457	87,884	100,161	122,102	64,962	73,487	80,040	98,956				
U. Utah	41	48,225	i 111,749	113,129	122,011	29,330	99,830	93,722	99,597				
U. Arizona	42	72,158	84,682	103,771	121,989	34,360	42,072	49,493	63,611				
U. North Dakota	43	86,578	84,614	105,141	121,983	35,155	33,233	27,690	49,346				
Northwestern U.	44	80,735	88,008	93,785	120,781	55,739	56,993	57,708	71,574				
Duke U.	45	94,483	102,748	109,885	119,628	74,308	80,356	85,594	92,243				
Clemson U.	46	90,038	98,733	103,188	119,002	46,693	62,349	65,399	78,025				
Boston U.	47	79,757	91,643	111,856	114,080	48,537	54,675	62,597	61,737				
U. California, Santa Barbara	48	86,303	97,329	111,017	108,076	44,958	67,267	77,243	73,488				
U. Notre Dame	49	90,572	103,773	113,853	107,700	42,501	50,651	57,913	49,799				
Harvard U.	50	92,782	96,920	99,830	106,255	50,918	47,017	42,222	47,442				
U. California, Davis	51	102,370	114,118	124,470	104,694	43,175	56,254	59,180	61,028				
Princeton U.	52	67,231	78,831	87,035	101,614	44,201	52,615	52,300	61,067				
Michigan State U.	53	79,360	81,143	86,949	98,696	31,314	34,356	37,598	42,260				
Woods Hole Oceanographic Institution	54	101,989	88,997	i 93,312	96,345	93,266	82,286	i 84,259	82,740				
U. California, Irvine	55	65,454	75,898	84,902	95,016	29,315	40,869	45,509	54,028				
New Jersey Institute of Technology	56	82,240	83,738	90,849	93,704	50,822	48,863	53,008	53,370				
U. Southern California	57	78,179	63,694	82,633	90,850	51,948	54,438	68,833	75,260				
U. Connecticut	58	54,185	68,902	72,672	84,479	37,988	42,418	46,010	50,829				
U. Massachusetts, Amherst	59	60,065	67,776	82,841	84,141	32,063	35,204	41,770	42,825				
U. Pittsburgh, Pittsburgh	60	56,681	65,936	82,238	83,908	37,749	43,571	54,013	55,239				
Vanderbilt U. and Vanderbilt U. Medical Center	61	86,541	78,534	82,313	83,016	43,570	52,364	53,911	54,388				
Florida State U.	62	52,153	58,212	67,635	82,132	34,492	37,798	43,395	49,673				
U. Nebraska, Lincoln and Medical Center <sup>c</sup>	63	na	na	76,802	80,020	na	na	37,913	39,652				
Oregon State U.	64	52,731	58,552	71,532	79,966	38,914	44,377	55,520	63,123				
Montana State U., Bozeman	65	51,785	54,188	67,024	79,284	39,190	42,936	54,709	64,978				
U. Oklahoma <sup>d</sup>	66	39,785	44,727	58,746	76,633	15,235	20,850	30,388	43,975				
California Institute of Technology	67	51,630	i 51,975	73,871	i 75,727	i 24,011	25,812	41,780	42,627				
U. Houston	68	56,555	64,026	67,684	74,661	26,599	28,251	31,432	32,379				
U. Central Florida	69	57,620	59,060	68,340	72,550	36,318	37,217	41,638	39,493				
U. Texas, Arlington	70	58,154	61,467	64,548	72,342	23,581	28,177	26,470	32,308				
Rensselaer Polytechnic Institute	71	67,810	63,146	66,158	71,966	31,832	29,720	34,192	37,669				
Case Western Reserve U.	72	39,079	41,783	59,900	71,589	30,483	31,686	43,497	51,107				
U. Maine	73	46,986	68,261	72,340	71,425	27,452	44,010	46,933	47,381				

Table 21. Total and federally financed higher education R&D expenditures at institutions in the standard form survey population in engineering, ranked by FY 2024 total: FYs 2021–24

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2021	2022	2023	2024	2021	2022	2023	2024
U. Texas, Dallas	74	50,646	51,310	55,368	70,912	24,793	24,404	25,609	35,307
George Mason U.	75	49,826	57,196	61,036	70,807	44,086	50,246	49,947	61,653
Mississippi State U.	76	67,472	73,980	78,080	68,736	44,188	48,255	54,768	45,257
Louisiana State U., Baton Rouge	77	39,104	53,974	63,779	68,678	11,014	12,249	15,748	18,393
U. Kentucky	78	52,361	61,287	62,529	67,561	33,001	38,078	37,882	41,051
Colorado School of Mines	79	54,062	60,371	61,175	67,559	37,909	42,745	39,767	37,481
U. South Florida	80	50,547	50,859	62,025	65,144	26,183	27,554	34,863	37,276
U. Arkansas, Fayetteville	81	37,818	40,691	49,645	63,086	17,980	22,533	27,734	40,136
U. Alabama, Tuscaloosa	82	43,941	49,885	51,029	62,000	25,859	30,544	32,570	35,907
U. North Carolina, Chapel Hill	83	30,935	39,242	49,721	61,707	19,983	22,510	24,138	24,363
U. Cincinnati	84	42,434	46,955	54,548	61,486	12,970	14,790	17,940	21,031
Colorado State U., Fort Collins	85	41,575	47,833	52,539	60,498	30,424	36,428	39,358	45,414
Texas Tech U.	86	41,962	46,952	53,564	59,044	15,359	18,858	27,046	27,507
Rutgers, State U. New Jersey, New Brunswick	87	51,289	57,490	61,910	58,726	35,691	35,877	40,402	43,715
U. South Carolina, Columbia	88	36,222	35,508	47,155	58,185	16,470	21,003	27,685	37,731
U. Iowa	89	47,722	49,233	57,579	58,044	23,116	24,367	27,689	28,476
U. Massachusetts, Lowell	90	36,339	44,358	51,877	57,744	18,884	26,414	25,882	24,305
Oklahoma State U., Stillwater	91	35,094	36,217	44,510	57,116	15,319	16,574	21,997	28,600
Stevens Institute of Technology	92	33,983	43,702	50,295	57,044	26,766	34,630	36,535	51,228
Florida International U.	93	41,740	48,549	56,199	56,953	23,801	31,994	37,670	38,236
U. New Mexico	94	41,317	45,191	51,318	56,542	33,001	37,091	42,513	48,418
Missouri U. of Science and Technology	95	43,470	43,119	51,351	55,848	21,797	24,061	27,984	31,186
Michigan Technological U.	96	46,733	48,400	54,177	55,630	26,289	27,496	27,248	26,911
U. Alabama, Huntsville	97	55,510	53,958	55,164	54,721	44,780	43,390	42,694	41,923
U. California, Santa Cruz	98	49,576	55,542	57,256	54,214	33,002	43,539	42,217	42,826
West Virginia U.	99	39,855	43,972	50,052	53,100	18,042	21,919	23,114	28,943
Dartmouth C. and Dartmouth Hitchcock Medical Center	100	33,559	36,219	41,232	50,635	24,126	25,052	28,224	34,831
U. Chicago	101	30,018	41,866	47,857	50,292	25,909	35,751	40,732	41,638
Washington State U.	102	48,031	45,571	47,254	50,128	23,129	20,359	22,414	25,351
SUNY, Binghamton U.	103	39,529	33,595	45,755	49,701	7,463	8,326	11,658	10,531
U. Texas, El Paso	104	26,599	40,798	45,627	48,749	15,602	26,326	28,605	31,589
SUNY, Stony Brook U.	105	28,344	38,670	40,873	46,622	17,613	25,968	28,320	30,036
U. Illinois, Chicago	106	35,675	39,656	46,820	45,603	21,610	24,287	29,282	29,813
New Mexico State U.	107	29,884	40,367	40,884	45,317	19,957	29,723	28,215	32,572
Yale U.	108	35,778	36,714	40,153	45,279	23,578	23,926	24,446	25,867
Washington U., Saint Louis	109	26,574	28,151	33,691	43,826	22,291	24,042	28,140	33,435
Drexel U.	110	32,665	38,649	44,002	43,751	20,821	27,063	31,364	28,576

Table 21. Total and federally financed higher education R&D expenditures at institutions in the standard form survey population in engineering, ranked by FY 2024 total: FYs 2021–24

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2021	2022	2023	2024	2021	2022	2023	2024
U. California, Riverside	111	34,888	32,758	36,650	42,901	18,541	21,080	23,236	25,594
U. Louisiana, Lafayette	112	30,295	32,259	35,532	42,556	6,909	9,736	10,734	11,913
Worcester Polytechnic Institute	113	27,108	31,514	37,920	40,692	16,095	18,401	20,579	23,190
Tufts U.	114	24,017	32,535	34,614	39,166	19,362	19,796	20,965	23,493
U. Nevada, Reno	115	27,769	32,454	41,198	38,129	11,419	11,896	14,595	17,958
Emory U.	116	11,488	16,415	26,414	37,498	8,356	10,545	17,322	25,715
Naval Postgraduate School	117	24,254	21,556	27,413	37,396	20,798	13,920	21,980	33,853
U.S. Air Force Academy	118	29,132	33,169	36,441	37,077	28,914	32,709	35,804	36,045
U. North Texas, Denton	119	18,285	23,078	27,249	36,595	7,232	10,227	13,452	19,254
Virginia Commonwealth U.	120	32,233	30,518	29,890	35,917	9,924	9,441	8,436	13,703
U. Alaska, Fairbanks	121	17,314	17,869	31,211	35,676	11,355	12,504	13,928	16,904
Lehigh U.	122	25,835	28,948	32,406	35,324	16,976	19,098	21,706	24,202
U. New Hampshire	123	22,509	25,040	29,519	34,616	8,984	9,665	13,998	17,173
George Washington U.	124	22,749	23,736	29,442	33,883	15,052	13,339	14,653	17,724
Kansas State U.	125	27,743	29,980	30,352	33,623	13,810	15,266	15,212	15,581
U. Kansas	126	21,363	22,075	25,610	33,322	12,206	13,244	15,825	20,360
Rochester Institute of Technology	127	20,874	22,869	28,126	33,180	10,659	10,560	11,359	13,580
Brown U.	128	23,587	29,569	27,640	33,027	15,963	18,304	20,340	21,818
Mercer U.	129	40,439	38,452	33,284	32,951	31,923	29,959	26,989	26,134
U. Wyoming	130	24,675	28,379	23,084	32,812	7,391	17,026	9,991	8,246
New Mexico Institute of Mining and Technology	131	13,002	53,897	76,286	32,554	10,164	45,940	68,220	21,001
Brigham Young U., Provo	132	20,162	19,599	26,923	31,754	15,694	15,386	14,299	15,355
Old Dominion U.	133	25,811	28,288	32,001	31,644	9,683	11,184	11,962	14,011
U. Hawaii, Manoa	134	23,966	24,574	29,058	31,201	16,553	17,241	20,303	21,422
U. Georgia	135	20,289	22,379	27,420	30,656	8,139	10,503	11,735	12,285
U. Missouri, Columbia	136	56,685	78,494	24,365	30,592	15,905	17,346	16,700	21,004
U. Texas, San Antonio	137	21,499	24,403	25,584	30,334	7,346	10,333	11,142	11,909
U. Alabama, Birmingham	138	46,844	30,637	28,505	30,203	43,477	22,205	15,320	17,486
North Carolina A&T State U.	139	11,616	18,186	20,925	29,902	9,071	10,157	14,059	16,157
North Dakota State U.	140	13,963	20,187	25,034	26,245	4,341	10,191	13,852	15,107
U. Louisville	141	20,965	23,630	24,702	25,846	11,844	14,712	15,122	12,461
U. Memphis	142	9,464	11,825	14,577	25,468	2,275	4,518	5,852	8,645
Syracuse U.	143	24,698	21,602	24,796	25,436	8,013	7,290	8,149	8,619
CUNY, City C.	144	34,710	36,189	21,627	25,432	18,078	19,125	17,700	17,144
Air Force Institute of Technology	145	26,780	27,794	37,232	24,545	17,065	21,622	29,188	19,073
Rowan U.	146	11,570	15,432	19,322	24,283	8,035	9,274	9,769	10,466
Embry-Riddle Aeronautical U.	147	11,279	16,049	13,774	22,820	9,272	14,083	12,190	16,941

Table 21. Total and federally financed higher education R&D expenditures at institutions in the standard form survey population in engineering, ranked by FY 2024 total: FYs 2021–24

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2021	2022	2023	2024	2021	2022	2023	2024
U. North Carolina, Charlotte	148	15,643	15,096	23,417	22,653	9,381	8,783	9,789	8,964
U. Rochester	149	16,780	22,179	22,767	22,234	14,213	17,031	18,978	18,478
Cleveland State U.	150	12,371	14,519	15,061	21,401	7,748	9,597	9,606	15,192
U. Nevada, Las Vegas	151	10,667	12,665	13,866	21,008	4,037	5,031	6,771	9,722
U. Vermont	152	11,914	11,621	18,270	20,298	5,537	5,794	9,208	10,601
Boise State U.	153	14,918	14,758	17,088	19,438	9,596	11,149	14,082	15,583
Indiana U., Bloomington	154	13,012	12,030	25,104	18,075	5,752	7,149	18,033	13,357
U. California, Merced	155	13,854	11,997	21,052	18,045	4,627	5,007	7,349	9,096
U. Missouri, Kansas City	156	9,174	12,219	16,959	17,747	7,506	9,153	12,734	11,587
U. Rhode Island	157	10,766	11,931	14,637	17,567	7,962	9,997	11,545	13,733
Tennessee Technological U.	158	8,455	7,436	9,802	17,343	3,392	2,549	4,141	8,792
Ohio U.	159	16,645	17,216	16,193	17,228	5,340	5,209	4,985	5,843
Wayne State U.	160	11,675	13,632	13,718	17,171	5,695	6,722	7,106	8,701
Florida Atlantic U.	161	17,064	16,449	17,629	17,107	11,045	9,749	12,770	12,064
San Diego State U.	162	10,715	14,193	16,138	17,100	4,553	5,143	6,656	6,328
South Dakota School of Mines and Technology	163	13,658	17,162	15,552	16,592	9,834	12,779	11,074	12,315
Western Michigan U. and Homer Stryker M.D. School of Medicine	164	8,058	9,515	14,491	16,263	4,194	3,994	4,884	4,276
Baylor U.	165	7,241	9,061	11,454	16,077	1,598	2,307	2,815	5,050
Illinois Institute of Technology	166	13,737	12,502	13,311	15,745	11,070	10,795	11,065	11,876
Oregon Health and Science U.	167	13,526	13,373	14,960	15,628	10,841	10,647	12,097	12,020
Florida A&M U.	168	5,222	5,752	9,530	15,567	4,852	5,427	8,959	13,346
Louisiana Tech U.	169	11,257	11,673	15,078	15,478	4,117	3,120	4,122	5,956
U. Texas Rio Grande Valley	170	5,354	7,844	11,028	15,318	2,885	4,536	6,988	10,317
Clarkson U.	171	10,113	12,446	14,568	15,279	4,577	5,180	6,413	8,051
Texas State U.	172	9,321	9,722	11,165	15,009	1,537	2,429	3,577	4,936
U. Idaho	173	12,944	13,720	13,229	14,091	6,705	7,063	6,244	6,475
U. Mississippi	174	6,033	8,095	11,818	13,909	4,487	3,779	4,284	7,005
Villanova U.	175	9,484	9,453	11,370	13,792	2,122	1,949	3,147	3,935
U. Puerto Rico, Mayaguez	176	11,397	8,482	7,401	13,622	8,136	7,325	6,545	9,437
Missouri State U.	177	7,024	8,630	12,633	13,388	6,872	8,396	11,680	12,078
Howard U.	178	9,535	10,431	11,221	13,345	7,420	8,156	6,744	7,664
Marquette U.	179	9,027	10,278	12,351	13,202	3,866	5,605	7,361	8,350
Morgan State U.	180	8,031	8,375	10,725	12,790	5,001	5,514	5,962	7,369
Southern Methodist U.	181	9,972	7,313	8,535	12,774	3,590	2,769	2,612	3,859
California State U., Sacramento	182	5,986	8,253	11,433	12,631	2,687	3,718	7,114	6,039
U. Massachusetts, Dartmouth	183	8,049	8,480	11,936	12,418	2,434	2,245	3,203	4,021
Texas A&M U.-Corpus Christi	184	6,590	8,737	9,507	12,277	2,340	4,257	1,905	3,800

Table 21. Total and federally financed higher education R&D expenditures at institutions in the standard form survey population in engineering, ranked by FY 2024 total: FYs 2021–24

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2021	2022	2023	2024	2021	2022	2023	2024
U. Toledo	185	10,299	11,957	11,520	11,782	7,574	8,517	7,048	6,322
U. Wisconsin-Milwaukee	186	8,577	8,246	9,725	11,760	3,193	2,907	3,322	3,712
U. South Alabama	187	5,085	6,231	7,228	11,730	3,209	4,296	5,784	8,535
U. Southern Mississippi	188	5,963	7,380	10,921	11,700	1,970	2,661	5,330	5,402
U. Texas Southwestern Medical Center	189	0	0	0	11,682	0	0	0	1,978
U. Tulsa	190	10,926	9,554	10,991	11,536	2,410	1,557	2,462	3,033
Temple U.	191	8,279	8,898	8,815	11,150	4,734	4,494	4,482	5,255
North Carolina Central U.	192	1,773	2,074	11,000	10,915	959	1,395	8,491	8,011
U. Maryland, Baltimore County	193	6,668	8,140	10,631	10,580	4,657	4,079	4,065	4,650
U. Akron	194	7,714	7,558	8,851	10,504	3,985	4,632	4,733	5,678
Oakland U.	195	4,437	14,783	9,138	10,392	953	1,572	1,017	1,882
U. Michigan, Dearborn	196	6,223	6,703	8,414	10,273	1,907	2,030	2,599	4,855
U.S. Military Academy	197	7,772	6,640	7,462	10,271	7,334	6,086	7,214	9,139
Northern Arizona U.	198	6,497	4,194	5,880	9,875	4,910	2,709	3,505	6,135
Montana Technological U.	199	5,834	4,473	6,151	9,496	4,639	3,779	5,051	8,865
Prairie View A&M U.	200	4,687	5,305	5,101	9,454	2,885	3,849	3,799	7,456
Southern Illinois U., Edwardsville	201	1,786	8,439	6,427	9,362	208	204	273	536
Tulane U.	202	6,662	6,823	6,779	9,254	4,016	3,801	4,041	4,453
U. Miami	203	4,527	5,961	8,034	9,216	2,816	4,423	4,988	5,010
South Dakota State U.	204	7,161	8,977	8,819	8,537	3,854	4,783	3,850	3,820
San Jose State U.	205	3,664	6,968	9,496	8,237	700	1,323	1,672	2,443
California Polytechnic State U., San Luis Obispo	206	5,522	8,472	9,181	7,251	2,636	5,436	4,584	1,854
Northern Illinois U.	207	4,134	4,132	4,565	7,223	1,856	2,039	2,193	3,504
Brandeis U.	208	2,221	5,264	5,918	6,867	824	147	0	119
Indiana U.-Purdue U., Indianapolis	209	6,604	6,626	9,390	6,808	4,040	4,375	6,049	4,602
Portland State U.	210	6,668	5,582	7,108	6,803	4,021	3,752	4,290	5,260
Lamar U.	211	2,437	3,536	6,659	6,270	635	445	1,363	1,754
Marshall U.	212	2,475	3,333	5,227	6,097	1,671	2,375	3,993	4,198
California State Polytechnic U., Humboldt	213	5,564	6,779	5,920	6,072	208	197	6	134
U. Oregon	214	0	4,656	5,844	6,064	0	3,729	5,004	5,319
Medical C. Wisconsin	215	7,560	7,427	7,828	5,926	5,221	5,046	5,735	3,681
Florida Institute of Technology	216	5,891	5,100	5,021	5,886	2,903	2,818	3,306	3,214
U.S. Naval Academy	217	6,719	6,342	5,848	5,860	6,604	6,197	5,788	5,833
Alfred U.	218	2,654	3,458	4,076	5,501	933	991	1,909	3,176
Idaho State U.	219	4,411	4,752	5,435	5,458	2,022	2,430	2,640	2,342
Saint Louis U.	220	1,999	1,559	3,187	5,214	1,183	768	1,603	2,918
Georgia Southern U.	221	4,052	3,302	4,200	5,206	804	468	978	1,281



Table 21. Total and federally financed higher education R&D expenditures at institutions in the standard form survey population in engineering, ranked by FY 2024 total: FYs 2021–24

(Dollars in thousands)

Institution	Rank	Total								Federally financed							
		2021		2022		2023		2024		2021		2022		2023		2024	
Tennessee State U.	222	1,768	i	1,278		3,026		5,176		1,755	i	1,265		2,781		3,954	
Kennesaw State U.	223	1,858		1,652		3,445		5,148		289		351		776		1,084	
Miami U.	224	4,356		4,474		4,562		4,806		532		843		798		1,674	
Texas A&M U.-Kingsville	225	4,622		4,044		5,130		4,751		2,923		2,819		3,690		3,176	
Southern Illinois U., Carbondale	226	3,120		2,308		3,183		4,600		606		587		865		817	
U. of St. Thomas (MN)	227	3,212		862		1,145		4,427		565		285		367		1,159	
California State U., Long Beach	228	4,574		3,671		3,160		4,265		2,942		2,181		1,897		2,175	
Santa Clara U.	229	1,588		1,741		2,617		4,165		814		1,061		1,849		1,490	
Catholic U. of America	230	3,926		3,076		3,217		4,134		2,680		2,099		2,405		2,316	
Jackson State U.	231	2,236		2,512		3,214		4,121		1,817		1,905		2,669		3,659	
U. Colorado Denver	232	3,695		3,906		4,511		3,950		3,152		3,398		3,868		3,104	
U. North Florida	233	2,119		2,472		4,313		3,876		316		258		208		201	
U. of the District of Columbia	234	3,134		5,725		3,342		3,627		3,134		5,725		3,314		3,627	
East Carolina U.	235	3,069		2,737		3,013		3,367		1,376		2,178		1,796		1,879	
Alabama A&M U.	236	1,787	i	1,925	i	3,018	i	3,344	i	1,500	i	1,861	i	2,462	i	2,772	i
U. Denver	237	3,558		3,632		3,612		3,329		1,037		1,180		1,353		1,372	
Wright State U.	238	8,129		6,843		4,819		3,281		6,695		5,696		3,694		2,181	
Purdue U., Northwest	239	2,220		2,606		3,078		3,182		1,032		1,846		2,023		2,172	
Southern U. and A&M C., Baton Rouge	240	2,282		1,938		2,338		3,122		2,185		1,851		2,272		2,964	
Milwaukee School of Engineering	241	3,129		3,480		2,790		3,019		704		904		392		538	
Albany State U.	242	14		ne		1,177		2,953		14		ne		936		2,839	
Tuskegee U.	243	5,528		2,955		3,262		2,947		4,213		2,099		2,326		2,101	
California State U., Northridge	244	1,216		2,621		2,935		2,872		1,069		2,377		1,911		1,722	
U. Puerto Rico, Rio Piedras	245	1,152		4,135		2,930		2,564		1,152		3,900		2,580		2,283	
U. New Orleans	246	1,897		2,134		2,509		2,539		204		341		640		635	
CUNY, Advanced Science Research Center	247	2,928		2,083		1,871		2,511		1,845		1,347		1,603		1,608	
California State U., Fresno	248	1,290		1,970		1,450		2,396		474		971		728		1,113	
Pittsburg State U.	249	2,250		2,309		2,461		2,333		314		600		1,088		955	
U. Arkansas, Little Rock	250	809		1,571		2,063		2,281		708		1,366		1,805		2,239	
Kent State U.	251	3,732		1,847		1,904		2,221		830		553		574		442	
California State U., Los Angeles	252	1,486		1,423		2,149		2,200		1,067		1,414		2,149		2,199	
U. Minnesota, Duluth	253	2,392		1,892		1,878		2,163		341		322		331		442	
Virginia State U.	254	1,273		2,260		2,110		2,156		321		1,407		1,249		1,183	
San Francisco State U.	255	2,386		2,423		1,967		2,145		990		1,174		613		690	
Chapman U.	256	348		539		2,041		2,118		8		82		228		332	
U. Texas Medical Branch	257	1,259		1,643		7,397		2,034		425		555		507		552	
Norfolk State U.	258	1,413		1,656		2,218		2,016		1,081		1,597		1,845		1,475	

Table 21. Total and federally financed higher education R&D expenditures at institutions in the standard form survey population in engineering, ranked by FY 2024 total: FYs 2021–24

(Dollars in thousands)

Institution	Rank	Total								Federally financed							
		2021		2022		2023		2024		2021		2022		2023		2024	
California State Polytechnic U., Pomona	259	1,516		1,759		1,673		1,982		1,040		1,298		1,213		1,404	
U. Nebraska, Omaha	260	1,051		1,510		1,782		1,936		545		988		1,021		1,029	
Youngstown State U.	261	1,794		3,058		2,553		1,924		1,261		2,525		2,208		1,782	
U. Tennessee, Chattanooga	262	3,578		3,823		4,138		1,913		2,574		2,622		3,049		1,446	
U. Alaska, Anchorage	263	1,674		1,957		1,878		1,833		869		1,074		885		923	
SUNY, C. of Environmental Science and Forestry	264	1,085		1,644	i	2,095		1,825		396		484		1,013		1,390	
South Carolina State U.	265	652	i	787	i	924		1,796		464	i	506	i	549		1,796	
U. Massachusetts, Boston	266	1,266		1,218		1,298		1,773		498		635		705		912	
Franklin W. Olin C. of Engineering	267	936		2,380		2,312		1,637		636		805		641		595	
Morehead State U.	268	756		2,312		2,141		1,593		756		1,799		1,392		668	
Bucknell U.	269	1,494		1,589		2,064		1,574		543		660		656		524	
West Texas A&M U.	270	1,400		1,713		1,075		1,545		673		915		458		565	
Pennsylvania State U., Behrend	271	2,395		1,799		1,892		1,528		610		1,039		1,365		822	
Wake Forest U.	272	1,204		1,427		1,499		1,499		544		804		937		967	
Marian U., Indianapolis	273	ne		ne		0		1,497		ne		ne		0		0	
New School	274	3,793		3,301		3,565		1,495		422		294		81		15	
California State U., San Marcos	275	1,682		527		937		1,454		1,680		504		904		1,399	
California State U., Chico	276	1,236		1,192		1,465		1,450		768		636		990		444	
Minnesota State U., Mankato	277	996		871		1,166		1,380		170		0		196		359	
Harvey Mudd C.	278	515		608		774		1,338		256		237		394		834	
Boston C.	279	50		438		592		1,305		0		0		0		114	
U. South Dakota	280	1,429		1,447		1,153		1,198		731		859		653		693	
Hampton U.	281	827		1,215		837		1,188		827		1,215		837		1,188	
California State U., Fullerton	282	661		1,062		1,355		1,138		530		639		622		431	
U. Hartford	283	963		752		1,067		1,095		585		694		986		991	
Oregon Institute of Technology	284	761	i	902	i	1,104	i	1,073	i	71	i	96	i	388	i	385	i
U. Colorado Colorado Springs	285	902		1,883		1,144		1,070		488		1,134		762		869	
U. North Carolina, Wilmington	286	1,064		537		1,317		1,027		297		182		265		172	
Tarleton State U.	287	166		685		857		1,024		0		0		0		32	
Purdue U., Fort Wayne	288	465		169		192		1,017		125		92		17		27	
Rhode Island School of Design	289	187	i	ne		ne		1,013		112	i	ne		ne		140	
U. West Florida	290	709		450		1,322		924		265		14		647		383	
Lawrence Technological U.	291	555		726		816		912		141		382		545		575	
C. Charleston	292	72		158		583		911		72		158		524		390	
U. Texas, Tyler	293	537		542		812		887		115		212		304		682	
Pennsylvania State U., Harrisburg	294	386		160		272		877		219		74		126		344	
Pennsylvania State U., Altoona	295	ne		ne		425		861		ne		ne		297		342	

Table 21. Total and federally financed higher education R&D expenditures at institutions in the standard form survey population in engineering, ranked by FY 2024 total: FYs 2021–24

(Dollars in thousands)

Institution	Rank	Total						Federally financed					
		2021	2022	2023	2024			2021	2022	2023	2024		
SUNY, Cobleskill	296	ne	1,211	2,301	856			ne	379	469	512		
U. of the Virgin Islands	297	832	790	790	792			809	790	790	792		
Western Illinois U.	298	780	1,983	717	781	i		780	1,983	717	781	i	
Florida Polytechnic U.	299	829	1,310	1,404	773			312	493	530	396		
Texas A&M International U.	300	241	127	175	768			65	66	106	477		
Utah Valley U.	301	ne	310	668	764			ne	180	435	275		
CUNY, New York City C. of Technology	302	103	50	806	762			93	33	782	662		
U. Tennessee, Health Science Center	303	687	640	683	752			0	0	0	0		
Manhattan C.	304	1,122	899	447	750			68	58	83	282		
Western New England U.	305	ne	1,464	686	739	i		ne	395	344	370	i	
C. New Jersey	306	283	265	278	729			133	133	193	446		
New York Institute of Technology	307	775	1,181	844	721			666	1,082	742	564		
U. Colorado Anschutz Medical Campus	308	1,204	957	842	707			1,189	730	707	484		
James Madison U.	309	174	808	576	706			54	161	209	354		
U. North Carolina, general administration	310	2,068	2,232	ne	700			306	268	ne	0		
Lafayette C.	311	201	384	581	688			84	222	403	463		
U. New Haven	312	319	329	120	684			81	64	23	452		
U. Detroit Mercy	313	114	560	1,010	682			64	510	804	524		
Western Kentucky U.	314	604	510	615	674			82	135	109	93		
Arkansas State U., Jonesboro	315	384	508	660	668			248	367	481	268		
U. Missouri, Saint Louis	316	0	0	38	643			0	0	0	328		
U. South Carolina Upstate	317	ne	ne	ne	641			ne	ne	ne	445		
Christopher Newport U.	318	656	437	541	628			656	437	541	628		
Western Washington U.	319	650	570	621	614			271	227	421	326		
SUNY, Polytechnic Institute	320	462,562	411,929	282,110	612			24,019	30,702	32,487	314		
Savannah State U.	321	588	609	502	610			588	609	502	610		
U. Southern Maine	322	159	228	301	600			32	72	97	118		
California State U., Bakersfield	323	839	440	711	586			751	302	388	441		
Robert Morris U.	324	ne	555	612	581	i		ne	448	492	495		
Ferris State U.	325	ne	ne	0	579			ne	ne	0	20		
Union C., Schenectady	326	722	446	519	576			595	359	272	345		
Delaware State U.	327	308	207	419	567			198	137	176	512		
U. Wisconsin-Oshkosh	328	158	294	157	565			73	252	142	138		
Fairfield U.	329	109	ne	474	552			2	ne	34	45		
U. San Diego	330	980	820	608	548			692	518	343	271		
Montclair State U.	331	104	1,129	402	538			5	49	360	431		
Swarthmore C.	332	174	215	338	528			50	51	1	33		

Table 21. Total and federally financed higher education R&D expenditures at institutions in the standard form survey population in engineering, ranked by FY 2024 total: FYs 2021–24

(Dollars in thousands)

Institution	Rank	Total								Federally financed							
		2021		2022		2023		2024		2021		2022		2023		2024	
Liberty U.	333	208		ne		588		522		75		ne		15		281	
Pace U.	334	706		529		684		498		626		529		649		480	
CUNY, Graduate Center	335	6		0		206		491		0		0		206		491	
Citadel Military C. South Carolina	336	250		363		491		488		136		222		416		397	
Western Carolina U.	337	305		363		395		478		237		134		65		233	
Fort Lewis C.	338	605		623		628		475		563		592		569		424	
U. Wisconsin-Green Bay	339	327	i	465	i	484	i	467	i	167	i	199	i	232	i	233	i
Weber State U.	340	ne		ne		ne		449		ne		ne		ne		217	
Hofstra U.	341	528		521		642		431		478		352		376		213	
Appalachian State U.	342	0		237		266		430		0		42		0		0	
U. Houston-Clear Lake	343	0		21		184		423		0		13		100		269	
Smith C.	344	688		599		567		417		571		426		421		132	
Central Michigan U.	345	412		499		377		414		95		48		187		232	
Alcorn State U.	346	181		1,159	i	1,349		408		178		873	i	1,033		393	
Hope C.	347	277		430		493		403		232		374		412		364	
Coastal Carolina U.	348	68		175		275		393		68		159		194		231	
Long Island U.	349	0		0		0		378		0		0		0		0	
Loyola Marymount U.	349	234		57		0		378		0		0		0		92	
Roger Williams U.	351	32		221		202		367		17		44		117		223	
CUNY, Hunter C.	352	0		191		0		357		0		191		0		357	
U. Washington, Tacoma	353	319		250		328		352		314		250		231		262	
Seattle U.	354	62		137		282		332		10		48		85		176	
Trinity U.	355	47		69		137		319		0		7		81		192	
Duquesne U.	356	102		66		187		308		0		21		52		220	
U. Texas of the Permian Basin	357	792		797		416		292		270		509		226		113	
Northwest Indian C.	358	196	i	227		243	i	274	i	196	i	227		243	i	274	i
Grand Valley State U.	359	118		117		239		271	i	0		0		0		0	i
Xavier U. Louisiana	360	57		0		135		268		57		0		135		260	
East Tennessee State U.	361	138	i	27	i	87		264		101		0		0		0	
Marymount U.	362	0		3		111		257		0		0		50		182	
Central State U.	363	211		314		155		234		211		314		155		234	
Benedict C.	364	ne		ne		1,428		218		ne		ne		815		203	
U. Maryland, Eastern Shore	365	144		59		63		213		125		59		63		201	
U. New England	366	0		0		0		206		0		0		0		206	
Middle Tennessee State U.	367	592		889		196		201		100		288		141		138	
U. Washington, Bothell	368	304		387		530		198		304		387		343		153	
SUNY, Oswego	369	43		0		150		192		9		0		123		118	

Table 21. Total and federally financed higher education R&D expenditures at institutions in the standard form survey population in engineering, ranked by FY 2024 total: FYs 2021–24

(Dollars in thousands)

Institution	Rank	Total						Federally financed					
		2021	2022	2023	2024	2021	2022	2023	2024	2021	2022	2023	2024
Clark Atlanta U.	370	36	41	114	174	11	41	114	142				
Eastern Washington U.	371	0	0	71	170	0	0	71	165				
Bentley U.	372	ne	0	72	151	ne	0	72	151				
California State U., East Bay	373	306	133	155	146	0	0	0	0				
U. Michigan, Flint	374	225	ne	ne	142	0	ne	ne	0				
Florida Gulf Coast U.	375	145	222	221	139	0	84	26	14				
High Point U.	376	ne	ne	ne	138	ne	ne	ne	97				i
Keck Graduate Institute	376	0	0	129	138	0	0	127	127				
Langston U.	378	0	0	0	127	0	0	0	106				
Texas Christian U.	379	36	88	95	126	8	84	59	8				
Texas A&M U.-Commerce	380	64	48	113	123	0	0	0	0				
Trinity C., Hartford	381	45	42	71	121	1	13	2	0				
St. Edward's U.	382	0	0	0	117	0	0	0	0				
Lipscomb U.	383	203	ne	153	113	203	ne	94	48				
Eastern Kentucky U.	384	58	ne	69	112	56	ne	69	30				
U. North Carolina, Asheville	385	0	0	2	106	0	0	2	0				
United Tribes Technical C.	385	ne	ne	444	106	ne	ne	410	100				
Dillard U.	387	0	7	85	101	0	7	85	101				
Calvin U.	388	107	129	134	99	34	33	64	69				
Texas Southern U.	389	27	24	75	98	27	7	69	96				
California State U., San Bernardino	390	1,382	658	1,108	95	0	0	0	0				
Sam Houston State U.	391	36	253	109	93	0	167	80	49				
Southern Utah U.	392	ne	ne	ne	90	ne	ne	ne	42				
U. of the Incarnate Word	393	186	339	289	88	139	331	235	51				
Bowling Green State U.	394	57	80	189	86	35	42	114	59				
Azusa Pacific U.	395	5	10	21	84	0	0	7	38				
Southeastern Louisiana U.	396	16	24	140	81	8	6	49	33				
U. Houston-Downtown	396	189	71	79	81	189	71	79	66				
Virginia Military Institute	396	ne	119	147	81	ne	51	62	45				
DePaul U.	399	0	76	106	80	0	76	106	64				
Valparaiso U.	400	ne	ne	ne	79	ne	ne	ne	47				
Midwestern State U.	401	ne	ne	ne	78	ne	ne	ne	0				
Sonoma State U.	402	1	17	67	74	0	0	43	71				
U. Central Arkansas	402	0	0	221	74	0	0	221	74				
Abilene Christian U.	404	45	29	15	68	45	29	15	0				
Sacred Heart U.	405	0	ne	0	62	0	ne	0	0				
Ball State U.	406	0	0	32	58	0	0	0	0				

Table 21. Total and federally financed higher education R&D expenditures at institutions in the standard form survey population in engineering, ranked by FY 2024 total: FYs 2021–24

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2021	2022	2023	2024	2021	2022	2023	2024
Indiana State U.	406	2	87	59	58	0	70	34	41
Indiana U. Pennsylvania	408	0	0	0	56	0	0	0	0
Elon U.	409	29	18	30	53	13	0	0	0
Providence C.	409	17	ne	0	53	17	ne	0	53
U. Wisconsin-Stevens Point	411	241	111	82	51	132	0	61	8
West Chester U. Pennsylvania	411	0	0	51	51	0	0	0	0
U. Central Oklahoma	413	80	93	50	50	24	31	0	0
Hawaii Pacific U.	414	13	14	0	47	13	14	0	47
California State U., Monterey Bay	415	0	0	23	45	0	0	0	0
Northern Michigan U.	415	0	0	0	45	0	0	0	34
St. Cloud State U.	417	31	30	54	42	0	0	0	0
U. Alaska, Southeast	418	4	0	92	41	0	0	21	0
Merrimack C.	419	ne	ne	16	39	ne	ne	11	32
Troy U.	420	0	56	47	38	0	56	47	37
Wellesley C.	421	345	395	50	33	345	395	50	33
Clafin U.	422	65	63	63	32	65	63	63	32
Carthage C.	423	ne	ne	ne	28	ne	ne	ne	28
U. Wisconsin-Eau Claire	424	0	0	0	24	0	0	0	0
Loyola U., Chicago	425	0	95	151	23	0	0	0	0
CUNY, C. Staten Island	426	274	0	288	19	235	0	286	0
Eastern Michigan U.	427	427	407	534	18	81	76	83	18
U. North Georgia	427	0	0	0	18	0	0	0	18
Lake Superior State U.	429	ne	41	43	11	ne	0	25	8
Towson U.	429	0	0	0	11	0	0	0	3
U. of the Pacific	431	228	135	128	10	228	135	21	9
Colorado State U., Pueblo	432	64	0	8	9 i	51	0	0	0 i
Seattle Pacific U.	432	ne	ne	ne	9	ne	ne	ne	0
U. San Francisco	432	3	3	4	9	0	0	0	0
Andrews U.	435	50	ne	48	8	50	ne	42	0
Central Washington U.	436	72	32	56	6	45	25	39	0
Southern Connecticut State U.	436	0	0	0	6	0	0	0	0
Des Moines U.	438	0 i	0	0	5	0 i	0	0	5
U. Wisconsin-River Falls	438	18	ne	42	5	18	ne	27	0
U. Wisconsin-Superior	440	207	297	0	4	32	71	0	4
Austin Peay State U.	441	0	0	9	3	0	0	8	3
California State U., Channel Islands	441	79	4	0	3	79	1	0	0
Carleton C.	443	0	0	1 i	1 i	0	0	1 i	1 i

Table 21. Total and federally financed higher education R&D expenditures at institutions in the standard form survey population in engineering, ranked by FY 2024 total: FYs 2021–24

(Dollars in thousands)

Institution	Rank	Total								Federally financed							
		2021		2022		2023		2024		2021		2022		2023		2024	
Kean U.	443	0		32		1		1		0		0		0		0	
New Mexico Highlands U.	443	0	i	0	i	0		1		0	i	0	i	0		0	
Salisbury U.	443	3		3		3		1		0		0		0		0	
U. Scranton	443	ne		ne		4		1		ne		ne		0		0	
All other surveyed institutions	-	72,088		74,197		2,347		0		33,536		34,535		1,078		0	

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory (APL), with \$1,552,813 thousand imputed for total and \$1,513,040 thousand reported for federally financed R&D expenditures in engineering in FY 2024. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

<sup>b</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>c</sup> The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

<sup>d</sup> The University of Oklahoma includes expenditures from the University of Oklahoma, Tulsa and University of Oklahoma, Norman and Health Science Center campuses. Due to a reorganization, the campuses began reporting as one unit in FY 2024.

**Note(s):**  
Institutions reporting zero expenditures in ranked total for FY 2024 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 5](#).

**Source(s):**  
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.



Table 22. Higher education R&D expenditures at institutions in the standard form survey population in engineering subfields, ranked by all FY 2024 engineering R&D: FYs 2022–24 and by subfield for FY 2024

(Dollars in thousands)

Institution	Rank	2022	2023	2024											
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec		
All institutions	-	15,662,654	17,476,575	19,271,406	2,054,095	2,081,887	1,409,387	2,096,724	4,415,693	747,870	2,572,680	1,141,081	2,751,989		
Johns Hopkins U. <sup>a</sup>	1	1,324,646	1,493,689	1,712,148	253,893	99,222	38,830	19,376	827,917	92,579	307,487	27,459	45,385		
Georgia Institute of Technology	2	935,632	1,061,402	1,134,820	286,860	60,089	37,778	27,550	545,809	63,952	66,756	21,470	24,556		
Texas A&M U., College Station and Health Science Center	3	402,999	464,769	496,787	52,905	43,620	18,849	129,205	36,715	14,874	65,550	12,560	122,509		
Pennsylvania State U., University Park and Hershey Medical Center	4	385,594	453,476	471,961	31,911	22,800	16,852	19,327	156,632	18,376	154,757	51,306	0		
U. Texas, Austin	5	319,719	360,947	418,949	23,276	14,987	54,306	49,525	115,571	0	82,381	27,655	51,248		
Massachusetts Institute of Technology	6	397,946	404,440	413,889	37,539	102,433	64,362	15,883	37,663	1,228	53,949	39,969	60,863		
Purdue U., West Lafayette	7	312,394	360,289	393,296	46,965	26,675	30,700	34,530	87,258	10,142	68,690	21,574	66,762		
U. Michigan, Ann Arbor	8	299,254	324,306	371,562	20,463	36,737	21,621	25,712	80,789	6,567	69,211	19,240	91,222		
Wichita State U.	9	226,111	336,096	360,009	350,237	231	0	0	1,902	771	1,305	0	5,563		
Utah State U.	10	259,482	308,386	356,169	306,934	2,300	0	15,737	26,866	0	3,025	85	1,222		
U. Illinois, Urbana-Champaign	11	228,786	272,650	351,544	20,724	23,993	25,409	41,984	65,014	0	41,102	35,316	98,002		
SUNY, U. Albany	12	4,266	4,562	322,259	0	0	0	0	2,145	0	0	0	320,114		
Virginia Polytechnic Institute and State U.	13	260,158	261,707	277,605	27,985	23,282	7,384	47,669	65,991	40,828	24,356	15,619	24,491		
Arizona State U.	14	192,681	265,026	277,309	6	19,930	5,750	47,300	62,598	30,137	10,872	6,138	94,578		
Ohio State U.	15	219,388	242,745	261,381	813	9,372	13,741	15,159	35,085	19,428	104,234	21,831	41,718		
U. California, San Diego	16	212,583	176,720	250,772	0	28,758	0	11,028	137,430	0	26,877	28,969	17,710		
U. Maryland <sup>b</sup>	17	164,304	183,899	218,811	14,507	30,180	14,579	50,039	9,547	316	26,293	13,778	59,572		
North Carolina State U.	18	171,162	196,594	218,277	1,577	20,464	49,402	19,237	46,233	7,882	17,616	28,370	27,496		
U. California, Berkeley	19	206,541	209,311	216,013	0	317	8,722	33,706	122,486	148	166	9,645	40,823		
U. Dayton	20	195,856	198,049	211,395	17,765	377	7,299	216	13,042	64,796	30,647	66,121	11,132		
U. Wisconsin-Madison	21	148,673	171,445	194,988	0	16,613	22,164	19,229	22,882	8,248	30,471	18,763	56,618		
U. Washington, Seattle	22	172,004	180,277	188,972	9,132	33,129	10,965	18,283	47,715	1,874	16,582	6,497	44,795		
U. Colorado Boulder	23	191,531	175,118	177,788	89,706	14,821	12,434	21,306	16,022	0	15,923	1,626	5,950		
Cornell U.	24	125,320	149,807	176,068	6,092	29,035	17,428	16,391	39,261	5,142	20,689	28,037	13,993		
U. Delaware	25	123,997	161,894	174,863	0	11,969	98,438	17,404	22,294	0	17,054	0	7,704		
Stanford U.	26	142,213	158,868	164,503	16,591	41,081	21,400	11,675	22,551	6,386	30,979	12,075	1,765		
U. Minnesota, Twin Cities	27	131,042	145,670	160,821	14,626	44,534	23,528	24,503	19,348	866	28,676	4,740	0		
Carnegie Mellon U.	28	138,117	155,436	160,149	1,910	24,067	11,897	7,918	37,507	8,924	40,951	10,288	16,687		
Iowa State U.	29	132,475	140,782	159,841	8,481	16,118	18,922	31,466	10,326	0	7,987	11,432	55,109		
U. Florida	30	134,339	150,126	153,888	8,827	32,483	8,547	28,651	38,323	3,676	15,953	13,273	4,155		
Northeastern U.	31	92,855	119,529	148,866	0	11,643	6,686	17,118	53,754	18,430	30,488	0	10,747		
New York U.	32	119,160	132,311	142,831	0	13	3,797	960	19,789	0	2,373	0	115,899		
Rice U.	33	110,648	129,719	137,077	0	57,121	11,476	10,208	33,769	52	5,796	9,874	8,781		

Table 22. Higher education R&D expenditures at institutions in the standard form survey population in engineering subfields, ranked by all FY 2024 engineering R&D: FYs 2022–24 and by subfield for FY 2024

(Dollars in thousands)

Institution	Rank	2022	2023	2024											
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec		
U. California, Los Angeles	34	98,403	113,969	128,854	0	10,632	11,463	11,699	39,651	0	21,119	9,964	24,326		
U. Tennessee, Knoxville	35	115,464	116,222	128,648	31,031	355	8,303	21,462	22,625	6,259	0	11,455	27,158		
SUNY, U. Buffalo	36	109,870	123,383	124,566	10,877	15,742	15,304	13,963	3,805	8,998	33,927	4,195	17,755		
U. Pennsylvania	37	106,282	112,740	124,526	0	34,551	13,092	3	37,785	23	21,449	0	17,623		
U. Virginia, Charlottesville	38	65,604	112,702	122,919	0	29,757	10,398	4,271	14,733	3,932	13,030	15,779	31,019		
Auburn U., Auburn	39	93,219	108,344	122,623	5,783	3,212	11,454	27,968	13,584	14,679	23,608	2,981	19,354		
Columbia U. in the City of New York	40	87,884	100,161	122,102	2,268	36,686	16,816	3,622	6,888	1,933	3,794	0	50,095		
U. Utah	41	111,749	113,129	122,011	0	5,905	6,986	45,932	41,461	0	10,211	5,501	6,015		
U. Arizona	42	84,682	103,771	121,989	3,372	11,675	8,134	6,864	58,925	8,064	4,050	11,956	8,949		
U. North Dakota	43	84,614	105,141	121,983	0	0	1,739	67,666	4,659	0	21,768	1,008	25,143		
Northwestern U.	44	88,008	93,785	120,781	0	22,788	19,986	9,461	10,280	3,200	13,930	23,207	17,929		
Duke U.	45	102,748	109,885	119,628	0	50,957	0	13,422	37,405	0	15,901	1,849	94		
Clemson U.	46	98,733	103,188	119,002	0	16,729	4,226	17,991	15,845	6,831	34,384	13,547	9,449		
Boston U.	47	91,643	111,856	114,080	2,042	45,847	58	0	22,098	8,112	17,526	2,078	16,319		
U. California, Santa Barbara	48	97,329	111,017	108,076	0	20,451	8,229	1,923	46,002	0	7,551	23,514	406		
U. Notre Dame	49	103,773	113,853	107,700	43,019	0	21,711	15,682	25,765	0	0	10	1,513		
Harvard U.	50	96,920	99,830	106,255	0	64,706	2,096	4,984	9,925	0	290	19,760	4,494		
U. California, Davis	51	114,118	124,470	104,694	0	20,563	4,749	39,769	16,318	0	16,764	3,222	3,309		
Princeton U.	52	78,831	87,035	101,614	4,660	11,982	9,226	9,476	37,260	3,480	8,557	0	16,973		
Michigan State U.	53	81,143	86,949	98,696	0	22,680	12,187	14,883	22,802	0	10,518	0	15,626		
Woods Hole Oceanographic Institution	54	88,997	93,312	96,345	9,519	0	0	11,901	49,879	0	25,046	0	0		
U. California, Irvine	55	75,898	84,902	95,016	0	16,519	8,231	12,706	17,473	0	21,853	13,086	5,148		
New Jersey Institute of Technology	56	83,738	90,849	93,704	0	10,554	9,646	42,735	5,703	0	4,357	109	20,600		
U. Southern California	57	63,694	82,633	90,850	5,827	15,393	8,724	7,828	44,361	2,814	0	0	5,903		
U. Connecticut	58	68,902	72,672	84,479	0	8,321	11,765	23,474	10,098	0	11,126	18,029	1,666		
U. Massachusetts, Amherst	59	67,776	82,841	84,141	0	7,107	27,668	22,068	13,874	0	10,655	0	2,769		
U. Pittsburgh, Pittsburgh	60	65,936	82,238	83,908	0	27,827	9,333	6,795	10,883	3,120	19,345	0	6,605		
Vanderbilt U. and Vanderbilt U. Medical Center	61	78,534	82,313	83,016	0	20,688	12,542	14,563	20,320	0	13,366	0	1,537		
Florida State U.	62	58,212	67,635	82,132	3,959	1,249	9,605	9,472	19,498	4,862	24,186	7,665	1,636		
U. Nebraska, Lincoln and Medical Center <sup>c</sup>	63	na	76,802	80,020	0	15,611	4,893	23,081	17,667	427	5,317	6,157	6,867		
Oregon State U.	64	58,552	71,532	79,966	24	2,483	4,411	18,449	19,140	8,335	9,237	334	17,553		
Montana State U., Bozeman	65	54,188	67,024	79,284	0	6,104	2,366	6,349	5,706	70	12,622	0	46,067		
U. Oklahoma <sup>d</sup>	66	44,727	58,746	76,633	11,812	6,256	14,252	9,056	24,876	3,312	0	0	7,069		
California Institute of Technology	67	51,975	73,871	75,727	8,092	6,750	5,250	11,353	5,978	0	4,845	31,000	2,459		

**Table 22. Higher education R&D expenditures at institutions in the standard form survey population in engineering subfields, ranked by all FY 2024 engineering R&D: FYs 2022–24 and by subfield for FY 2024**

(Dollars in thousands)

Institution	Rank	2022	2023	2024											
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec		
U. Houston	68	64,026	67,684	74,661	2,192	12,048	18,689	10,827	14,444	809	7,082	1,471	7,099		
U. Central Florida	69	59,060	68,340	72,550	11,339	135	0	9,194	13,410	3,175	19,135	4,903	11,259		
U. Texas, Arlington	70	61,467	64,548	72,342	6,640	6,683	0	16,485	9,150	13,946	6,640	0	12,798		
Rensselaer Polytechnic Institute	71	63,146	66,158	71,966	0	11,910	11,184	3,530	13,756	397	19,115	8,360	3,714		
Case Western Reserve U.	72	41,783	59,900	71,589	3,025	38,446	7,912	1,067	2,009	413	6,797	0	11,920		
U. Maine	73	68,261	72,340	71,425	0	380	8,703	3,093	3,988	1,464	1,882	51,204	711		
U. Texas, Dallas	74	51,310	55,368	70,912	2,223	17,291	8	0	17,102	1,032	12,600	18,323	2,333		
George Mason U.	75	57,196	61,036	70,807	0	8,589	53	5,621	28,244	24,592	2,475	875	358		
Mississippi State U.	76	73,980	78,080	68,736	14,788	1,998	3,989	2,767	11,556	10,547	6,216	1,073	15,802		
Louisiana State U., Baton Rouge	77	53,974	63,779	68,678	0	0	12,629	19,256	8,242	3,754	7,938	5,457	11,402		
U. Kentucky	78	61,287	62,529	67,561	0	3,055	3,078	13,714	3,964	2,727	6,824	3,624	30,575		
Colorado School of Mines	79	60,371	61,175	67,559	2,012	2,585	3,486	11,335	760	994	1,957	14,710	29,720		
U. South Florida	80	50,859	62,025	65,144	159	8,316	3,215	27,787	14,748	1,999	6,470	0	2,450		
U. Arkansas, Fayetteville	81	40,691	49,645	63,086	178	7,466	6,341	9,528	24,640	4,741	5,328	0	4,864		
U. Alabama, Tuscaloosa	82	49,885	51,029	62,000	3,204	0	8,646	20,148	9,831	0	9,326	9,082	1,763		
U. North Carolina, Chapel Hill	83	39,242	49,721	61,707	0	18,299	0	40,663	0	2,745	0	0	0		
U. Cincinnati	84	46,955	54,548	61,486	8,542	7,923	6,964	9,445	8,959	0	12,849	0	6,804		
Colorado State U., Fort Collins	85	47,833	52,539	60,498	93	906	4,841	18,253	11,143	777	18,365	21	6,099		
Texas Tech U.	86	46,952	53,564	59,044	0	0	13,890	11,734	13,214	2,266	10,294	0	7,646		
Rutgers, State U. New Jersey, New Brunswick	87	57,490	61,910	58,726	0	4,464	4,707	4,198	6,114	1,028	5,856	3,881	28,478		
U. South Carolina, Columbia	88	35,508	47,155	58,185	100	0	10,411	4,903	14,313	0	20,004	6	8,448		
U. Iowa	89	49,233	57,579	58,044	0	3,039	2,181	26,583	2,598	159	2,152	0	21,332		
U. Massachusetts, Lowell	90	44,358	51,877	57,744	532	3,943	16,801	3,944	8,798	0	12,138	0	11,588		
Oklahoma State U., Stillwater	91	36,217	44,510	57,116	21,508	1	6,848	6,773	5,475	3,695	1,741	1,129	9,946		
Stevens Institute of Technology	92	43,702	50,295	57,044	77	3,431	1,423	6,382	2,624	38,853	3,017	1,237	0		
Florida International U.	93	48,549	56,199	56,953	0	7,287	0	16,407	16,201	898	11,146	362	4,652		
U. New Mexico	94	45,191	51,318	56,542	11,966	494	4,012	11,078	14,187	940	3,088	182	10,595		
Missouri U. of Science and Technology	95	43,119	51,351	55,848	1,500	355	2,521	8,167	8,709	3,294	5,053	25,315	934		
Michigan Technological U.	96	48,400	54,177	55,630	0	4,577	7,701	6,366	4,528	0	23,380	5,517	3,561		
U. Alabama, Huntsville	97	53,958	55,164	54,721	29,557	223	1,662	812	13,202	5,425	3,006	436	398		
U. California, Santa Cruz	98	55,542	57,256	54,214	0	38,630	0	0	12,253	0	0	0	3,331		
West Virginia U.	99	43,972	50,052	53,100	7,283	0	8,853	5,934	9,186	3,874	10,264	2,298	5,408		
Dartmouth C. and Dartmouth Hitchcock Medical Center	100	36,219	41,232	50,635	27	17,457	4,217	1,620	10,425	272	10,676	0	5,941		
U. Chicago	101	41,866	47,857	50,292	0	0	0	0	0	0	0	0	50,292		

Table 22. Higher education R&D expenditures at institutions in the standard form survey population in engineering subfields, ranked by all FY 2024 engineering R&D: FYs 2022–24 and by subfield for FY 2024

(Dollars in thousands)

Institution	Rank	2022	2023	2024											
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec		
Washington State U.	102	45,571	47,254	50,128	173	4,059	7,146	9,534	7,487	146	6,202	6,058	9,323		
SUNY, Binghamton U.	103	33,595	45,755	49,701	0	5,206	0	0	6,755	21,292	13,653	0	2,795		
U. Texas, El Paso	104	40,798	45,627	48,749	289	614	0	6,289	6,794	2,728	26,064	3,247	2,724		
SUNY, Stony Brook U.	105	38,670	40,873	46,622	0	9,824	0	2,935	12,024	0	2,418	15,784	3,637		
U. Illinois, Chicago	106	39,656	46,820	45,603	0	15,953	4,304	4,141	7,661	0	13,365	119	60		
New Mexico State U.	107	40,367	40,884	45,317	7,234	15	1,769	5,875	15,592	213	4,554	770	9,295		
Yale U.	108	36,714	40,153	45,279	0	14,321	8,909	0	10,307	0	8,236	0	3,506		
Washington U., Saint Louis	109	28,151	33,691	43,826	0	15,747	15,144	23	6,384	0	0	5,996	532		
Drexel U.	110	38,649	44,002	43,751	0	10,547	4,781	5,789	3,604	0	7,267	8,943	2,820		
U. California, Riverside	111	32,758	36,650	42,901	0	3,376	9,580	13,444	9,133	0	4,710	1,914	744		
U. Louisiana, Lafayette	112	32,259	35,532	42,556	0	0	10,348	8,498	4,535	0	13,666	4,630	879		
Worcester Polytechnic Institute	113	31,514	37,920	40,692	1,726	3,742	3,820	959	5,105	0	22,665	527	2,148		
Tufts U.	114	32,535	34,614	39,166	325	20,081	3,099	4,287	4,506	298	2,738	80	3,752		
U. Nevada, Reno	115	32,454	41,198	38,129	168	4,174	7,218	9,512	180	2,304	7,260	3,052	4,261		
Emory U.	116	16,415	26,414	37,498	0	37,498	0	0	0	0	0	0	0		
Naval Postgraduate School	117	21,556	27,413	37,396	7,526	0	0	692	5,251	769	15,478	183	7,497		
U.S. Air Force Academy	118	33,169	36,441	37,077	4,044	0	232	29	767	60	400	31,545	0		
U. North Texas, Denton	119	23,078	27,249	36,595	0	4,051	0	0	3,547	0	5,397	22,466	1,134		
Virginia Commonwealth U.	120	30,518	29,890	35,917	0	5,219	5,216	0	10,957	0	8,436	0	6,089		
U. Alaska, Fairbanks	121	17,869	31,211	35,676	14,553	0	0	6,658	10,728	0	103	1,246	2,388		
Lehigh U.	122	28,948	32,406	35,324	0	4,309	3,607	5,169	2,436	2,654	6,916	10,187	46		
U. New Hampshire	123	25,040	29,519	34,616	0	0	3,422	9,168	11,080	0	5,097	0	5,849		
George Washington U.	124	23,736	29,442	33,883	3,331	4,568	0	4,999	5,956	6,231	1,852	270	6,676		
Kansas State U.	125	29,980	30,352	33,623	1,115	0	3,261	5,099	6,091	1,279	5,749	0	11,029		
U. Kansas	126	22,075	25,610	33,322	3,386	0	9,488	11,724	5,310	0	2,451	0	963		
Rochester Institute of Technology	127	22,869	28,126	33,180	0	2,874	1,413	142	7,062	3,408	2,863	0	15,418		
Brown U.	128	29,569	27,640	33,027	0	8,857	3,946	0	3,551	0	3,496	3,793	9,384		
Mercer U.	129	38,452	33,284	32,951	13,751	0	0	28	2,823	0	8,065	7,557	727		
U. Wyoming	130	28,379	23,084	32,812	45	1,058	11,492	3,951	1,579	0	848	246	13,593		
New Mexico Institute of Mining and Technology	131	53,897	76,286	32,554	671	0	3,039	0	648	0	2,526	889	24,781		
Brigham Young U., Provo	132	19,599	26,923	31,754	0	0	5,146	5,774	10,139	1,874	8,781	0	40		
Old Dominion U.	133	28,288	32,001	31,644	1,276	0	0	1,990	10,647	15,485	2,246	0	0		
U. Hawaii, Manoa	134	24,574	29,058	31,201	0	1,054	0	5,501	12,158	0	3,629	0	8,859		
U. Georgia	135	22,379	27,420	30,656	0	2,298	8,410	12,659	4,964	0	1,032	0	1,293		

Table 22. Higher education R&D expenditures at institutions in the standard form survey population in engineering subfields, ranked by all FY 2024 engineering R&D: FYs 2022–24 and by subfield for FY 2024

(Dollars in thousands)

Institution	Rank	2022	2023	2024											
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec		
U. Missouri, Columbia	136	78,494	24,365	30,592	0	3,090	1,582	4,938	9,558	938	2,982	2,043	5,461		
U. Texas, San Antonio	137	24,403	25,584	30,334	0	4,716	0	7,787	3,316	2,072	4,265	0	8,178		
U. Alabama, Birmingham	138	30,637	28,505	30,203	6,053	12,678	623	2,284	2,466	0	5,468	0	631		
North Carolina A&T State U.	139	18,186	20,925	29,902	0	2,097	0	1,290	5,403	1,700	4,308	0	15,104		
North Dakota State U.	140	20,187	25,034	26,245	196	254	410	10,090	3,789	754	3,281	411	7,060		
U. Louisville	141	23,630	24,702	25,846	5	6,976	1,182	2,967	5,604	1,847	2,890	22	4,353		
U. Memphis	142	11,825	14,577	25,468	i 437	i 4,152	i 0	i 10,330	i 3,461	i 110	i 5,279	i 0	i 1,699	i	
Syracuse U.	143	21,602	24,796	25,436	1,076	4,632	1,477	3,379	5,220	13	6,996	0	2,643		
CUNY, City C.	144	36,189	21,627	25,432	0	6,839	3,548	4,056	7,328	0	3,301	0	360		
Air Force Institute of Technology	145	27,794	37,232	24,545	7,321	0	0	833	6,972	62	0	277	9,080		
Rowan U.	146	15,432	19,322	24,283	0	2,156	4,039	3,127	1,060	710	1,078	108	12,005		
Embry-Riddle Aeronautical U.	147	16,049	13,774	22,820	18,928	0	0	446	2,699	0	636	0	111		
U. North Carolina, Charlotte	148	15,096	23,417	22,653	0	0	0	3,269	6,126	1,336	4,818	0	7,104		
U. Rochester	149	22,179	22,767	22,234	0	6,311	1,438	0	6,567	0	6,743	0	1,175		
Cleveland State U.	150	14,519	15,061	21,401	0	13,015	1,672	775	1,014	1,072	3,669	0	184		
U. Nevada, Las Vegas	151	12,665	13,866	21,008	0	0	0	7,180	3,959	0	6,558	0	3,311		
U. Vermont	152	11,621	18,270	20,298	2,448	0	0	5,028	2,577	0	3,089	395	6,761		
Boise State U.	153	14,758	17,088	19,438	35	5,709	497	1,002	3,386	960	2,037	3,142	2,670		
Indiana U., Bloomington	154	12,030	25,104	18,075	0	0	0	0	17,821	0	0	0	254		
U. California, Merced	155	11,997	21,052	18,045	108	2,529	216	999	108	0	4,200	2,225	7,660		
U. Missouri, Kansas City	156	12,219	16,959	17,747	358	116	47	1,603	13,119	1	2,134	227	142		
U. Rhode Island	157	11,931	14,637	17,567	90	1,282	1,451	3,980	1,489	41	3,517	20	5,697		
Tennessee Technological U.	158	7,436	9,802	17,343	0	0	1,433	2,724	5,220	403	6,936	0	627		
Ohio U.	159	17,216	16,193	17,228	2,879	0	4,089	3,173	751	170	368	396	5,402		
Wayne State U.	160	13,632	13,718	17,171	0	3,251	2,463	3,969	2,857	1,173	1,223	0	2,235		
Florida Atlantic U.	161	16,449	17,629	17,107	6	0	231	4,439	6	0	0	0	12,425		
San Diego State U.	162	14,193	16,138	17,100	2,276	137	0	4,717	4,667	0	4,742	0	561		
South Dakota School of Mines and Technology	163	17,162	15,552	16,592	0	1,092	5,910	1,244	62	23	851	5,983	1,427		
Western Michigan U. and Homer Stryker M.D. School of Medicine	164	9,515	14,491	16,263	977	733	6,732	964	1,213	657	2,273	228	2,486		
Baylor U.	165	9,061	11,454	16,077	258	309	0	23	5,814	0	9,377	0	296		
Illinois Institute of Technology	166	12,502	13,311	15,745	1,841	3,748	1,746	2,257	4,074	0	955	0	1,124		
Oregon Health and Science U.	167	13,373	14,960	15,628	0	15,628	0	0	0	0	0	0	0		
Florida A&M U.	168	5,752	9,530	15,567	0	0	4,496	2,888	733	2,523	2,406	0	2,521		
Louisiana Tech U.	169	11,673	15,078	15,478	0	4,210	2,397	2,796	816	757	4,502	0	0		

Table 22. Higher education R&D expenditures at institutions in the standard form survey population in engineering subfields, ranked by all FY 2024 engineering R&D: FYs 2022–24 and by subfield for FY 2024

(Dollars in thousands)

Institution	Rank	2022	2023	2024										
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec	
U. Texas Rio Grande Valley	170	7,844	11,028	15,318	791	167	16	784	1,313	1,511	5,040	2,979	2,717	
Clarkson U.	171	12,446	14,568	15,279	0	36	2,394	4,492	4,254	0	3,515	162	426	
Texas State U.	172	9,722	11,165	15,009	647	8	0	2,264	310	0	90	5,782	5,908	
U. Idaho	173	13,720	13,229	14,091	1,314	1,015	653	1,855	1,203	196	1,751	354	5,750	
U. Mississippi	174	8,095	11,818	13,909	34	3,550	1,415	5,508	974	0	1,024	816	588	
Villanova U.	175	9,453	11,370	13,792	0	256	969	5,622	1,643	0	2,971	0	2,331	
U. Puerto Rico, Mayaguez	176	8,482	7,401	13,622	0	0	3,764	2,400	4,842	307	671	1,618	20	
Missouri State U.	177	8,630	12,633	13,388	15	0	0	0	0	0	0	13,373	0	
Howard U.	178	10,431	11,221	13,345	0	0	1,295	2,790	5,096	0	1,539	0	2,625	
Marquette U.	179	10,278	12,351	13,202	0	3,412	0	3,043	2,513	0	3,007	0	1,227	
Morgan State U.	180	8,375	10,725	12,790	165	0	0	5,580	3,349	202	11	0	3,483	
Southern Methodist U.	181	7,313	8,535	12,774	0	0	0	1,338	2,401	736	1,770	0	6,529	
California State U., Sacramento	182	8,253	11,433	12,631	0	0	0	11,763	674	0	194	0	0	
U. Massachusetts, Dartmouth	183	8,480	11,936	12,418	0	1,627	0	3,196	4,370	0	2,854	0	371	
Texas A&M U.-Corpus Christi	184	8,737	9,507	12,277	8,814	5	43	1,014	217	91	1,216	0	877	
U. Toledo	185	11,957	11,520	11,782	238	1,423	2,117	1,702	1,964	0	3,860	0	478	
U. Wisconsin-Milwaukee	186	8,246	9,725	11,760	0	561	0	1,847	1,948	484	3,102	884	2,934	
U. South Alabama	187	6,231	7,228	11,730	0	0	2,187	5,260	2,656	0	380	0	1,247	
U. Southern Mississippi	188	7,380	10,921	11,700	0	0	0	180	0	0	0	0	11,520	
U. Texas Southwestern Medical Center	189	0	0	11,682	0	11,682	0	0	0	0	0	0	0	
U. Tulsa	190	9,554	10,991	11,536	0	0	1,308	0	848	0	2,670	0	6,710	
Temple U.	191	8,898	8,815	11,150	0	2,939	0	2,124	1,831	0	2,570	0	1,686	
North Carolina Central U.	192	2,074	11,000	10,915	0	10,819	0	0	0	0	0	0	96	
U. Maryland, Baltimore County	193	8,140	10,631	10,580	150	2,350	1,015	314	3,207	258	2,184	78	1,024	
U. Akron	194	7,558	8,851	10,504	0	1,563	2,015	1,521	1,051	0	4,285	0	69	
Oakland U.	195	14,783	9,138	10,392	0	0	0	0	3,070	288	3,252	0	3,782	
U. Michigan, Dearborn	196	6,703	8,414	10,273	0	0	0	0	6,014	1,766	2,206	0	287	
U.S. Military Academy	197	6,640	7,462	10,271	200	0	353	917	1,944	1,747	3,924	0	1,186	
Northern Arizona U.	198	4,194	5,880	9,875	124	1,203	14	942	3,138	162	2,774	17	1,501	
Montana Technological U.	199	4,473	6,151	9,496	0	0	0	258	509	0	229	8,443	57	
Prairie View A&M U.	200	5,305	5,101	9,454	525	0	608	1,977	3,464	144	1,392	66	1,278	
Southern Illinois U., Edwardsville	201	8,439	6,427	9,362	0	7,883	0	832	201	22	280	0	144	
Tulane U.	202	6,823	6,779	9,254	0	3,500	5,754	0	0	0	0	0	0	
U. Miami	203	5,961	8,034	9,216	550	0	1,961	3,511	943	0	1,069	0	1,182	



Table 22. Higher education R&D expenditures at institutions in the standard form survey population in engineering subfields, ranked by all FY 2024 engineering R&D: FYs 2022–24 and by subfield for FY 2024

(Dollars in thousands)

Institution	Rank	2022	2023	2024										
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec	
South Dakota State U.	204	8,977	8,819	8,537	0	0	0	1,172	454	0	674	0	6,237	
San Jose State U.	205	6,968	9,496	8,237	382	0	2,102	579	2,364	703	1,478	0	629	
California Polytechnic State U., San Luis Obispo	206	8,472	9,181	7,251	410	1,406	0	1,716	234	65	333	5	3,082	
Northern Illinois U.	207	4,132	4,565	7,223	0	0	0	0	1,952	4,091	720	0	460	
Brandeis U.	208	5,264	5,918	6,867	157	6,710	0	0	0	0	0	0	0	
Indiana U.-Purdue U., Indianapolis	209	6,626	9,390	6,808	0	1,682	0	0	1,163	0	2,941	0	1,022	
Portland State U.	210	5,582	7,108	6,803	148	0	0	3,712	1,673	0	550	51	669	
Lamar U.	211	3,536	6,659	6,270	0	0	1,940	2,864	179	1,163	124	0	0	
Marshall U.	212	3,333	5,227	6,097	6	31	0	3,889	0	0	862	142	1,167	
California State Polytechnic U., Humboldt	213	6,779	5,920	6,072	0	8	0	1,535	444	39	0	0	4,046	
U. Oregon	214	4,656	5,844	6,064	0	6,064	0	0	0	0	0	0	0	
Medical C. Wisconsin	215	7,427	7,828	5,926	0	5,926	0	0	0	0	0	0	0	
Florida Institute of Technology	216	5,100	5,021	5,886	1,241	800	410	610	658	545	333	332	957	
U.S. Naval Academy	217	6,342	5,848	5,860	535	0	0	0	216	0	1,489	0	3,620	
Alfred U.	218	3,458	4,076	5,501	0	0	0	0	0	0	0	5,501	0	
Idaho State U.	219	4,752	5,435	5,458	0	0	0	566	375	0	170	0	4,347	
Saint Louis U.	220	1,559	3,187	5,214	283	866	0	124	6	397	2,269	0	1,269	
Georgia Southern U.	221	3,302	4,200	5,206	30	7	147	1,167	878	628	2,116	138	95	
Tennessee State U.	222	1,278	3,026	5,176	0	0	0	0	0	0	5	18	5,153	
Kennesaw State U.	223	1,652	3,445	5,148	0	0	0	3,418	93	0	788	0	849	
Miami U.	224	4,474	4,562	4,806	0	633	1,918	0	1,123	811	165	0	156	
Texas A&M U.-Kingsville	225	4,044	5,130	4,751	435	25	9	121	494	341	1,111	0	2,215	
Southern Illinois U., Carbondale	226	2,308	3,183	4,600	577	76	0	722	1,249	7	796	332	841	
U. of St. Thomas (MN)	227	862	1,145	4,427	0	1	0	39	3,537	81	456	0	313	
California State U., Long Beach	228	3,671	3,160	4,265	107	593	554	1,829	396	0	453	0	333	
Santa Clara U.	229	1,741	2,617	4,165	0	782	0	33	1,337	34	1,473	0	506	
Catholic U. of America	230	3,076	3,217	4,134	0	1,711	0	751	881	0	660	0	131	
Jackson State U.	231	2,512	3,214	4,121	0	0	0	2,739	1,382	0	0	0	0	
U. Colorado Denver	232	3,906	4,511	3,950	0	461	0	1,665	351	0	1,004	0	469	
U. North Florida	233	2,472	4,313	3,876	0	0	0	956	249	0	2,574	0	97	
U. of the District of Columbia	234	5,725	3,342	3,627	0	0	0	373	571	0	2,683	0	0	
East Carolina U.	235	2,737	3,013	3,367	0	0	0	574	0	0	0	0	2,793	
Alabama A&M U.	236	1,925	3,018	3,344	0	0	0	819	1,592	0	933	0	0	
U. Denver	237	3,632	3,612	3,329	0	1,070	0	122	1,061	0	510	157	409	



Table 22. Higher education R&D expenditures at institutions in the standard form survey population in engineering subfields, ranked by all FY 2024 engineering R&D: FYs 2022–24 and by subfield for FY 2024

(Dollars in thousands)

Institution	Rank	2022	2023	2024										
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec	
Wright State U.	238	6,843	4,819	3,281	0	13	0	0	1,604	0	1,635	6	23	
Purdue U., Northwest	239	2,606	3,078	3,182	0	0	0	38	36	2,647	315	0	146	
Southern U. and A&M C., Baton Rouge	240	1,938	2,338	3,122	0	0	0	0	194	0	2,915	0	13	
Milwaukee School of Engineering	241	3,480	2,790	3,019	0	321	0	1,151	4	0	1,100	0	443	
Albany State U.	242	ne	1,177	2,953	22	0	0	2,891	0	0	0	0	40	
Tuskegee U.	243	2,955	3,262	2,947	249	0	343	0	195	0	446	1,706	8	
California State U., Northridge	244	2,621	2,935	2,872	295	0	0	110	327	64	1,701	3	372	
U. Puerto Rico, Rio Piedras	245	4,135	2,930	2,564	0	2,564	0	0	0	0	0	0	0	
U. New Orleans	246	2,134	2,509	2,539	0	0	0	438	878	0	578	0	645	
CUNY, Advanced Science Research Center	247	2,083	1,871	2,511	0	615	366	1,447	0	0	0	0	83	
California State U., Fresno	248	1,970	1,450	2,396	0	0	0	1,545	429	0	154	0	268	
Pittsburg State U.	249	2,309	2,461	2,333	0	0	1,612	0	0	0	0	721	0	
U. Arkansas, Little Rock	250	1,571	2,063	2,281	1,723	9	95	0	0	11	364	0	79	
Kent State U.	251	1,847	1,904	2,221	182	135	0	10	770	162	28	17	917	
California State U., Los Angeles	252	1,423	2,149	2,200	0	0	0	657	76	0	1,461	0	6	
U. Minnesota, Duluth	253	1,892	1,878	2,163	0	0	143	855	133	627	0	0	405	
Virginia State U.	254	2,260	2,110	2,156	828	0	250	0	697	268	6	0	107	
San Francisco State U.	255	2,423	1,967	2,145	0	109	0	938	517	12	444	0	125	
Chapman U.	256	539	2,041	2,118	0	45	0	0	274	0	0	0	1,799	
U. Texas Medical Branch	257	1,643	7,397	2,034	0	2,034	0	0	0	0	0	0	0	
Norfolk State U.	258	1,656	2,218	2,016	0	0	0	0	0	0	0	0	2,016	
California State Polytechnic U., Pomona	259	1,759	1,673	1,982	300	9	482	975	98	117	1	0	0	
U. Nebraska, Omaha	260	1,510	1,782	1,936	480	777	3	676	0	0	0	0	0	
Youngstown State U.	261	3,058	2,553	1,924	0	0	0	1,244	46	0	347	15	272	
U. Tennessee, Chattanooga	262	3,823	4,138	1,913	0	0	205	390	609	0	709	0	0	
U. Alaska, Anchorage	263	1,957	1,878	1,833	537	0	0	594	297	0	57	177	171	
SUNY, C. of Environmental Science and Forestry	264	1,644	2,095	1,825	501	250	737	318	0	0	0	19	0	
South Carolina State U.	265	787	924	1,796	0	0	0	52	0	686	54	0	1,004	
U. Massachusetts, Boston	266	1,218	1,298	1,773	9	220	0	25	1,194	0	0	0	325	
Franklin W. Olin C. of Engineering	267	2,380	2,312	1,637	166	17	0	20	362	0	490	0	582	
Morehead State U.	268	2,312	2,141	1,593	1,493	0	0	34	66	0	0	0	0	
Bucknell U.	269	1,589	2,064	1,574	0	194	275	374	236	0	282	0	213	
West Texas A&M U.	270	1,713	1,075	1,545	0	0	691	238	7	0	0	0	609	
Pennsylvania State U., Behrend	271	1,799	1,892	1,528	286	165	2	0	10	450	425	190	0	

Table 22. Higher education R&D expenditures at institutions in the standard form survey population in engineering subfields, ranked by all FY 2024 engineering R&D: FYs 2022–24 and by subfield for FY 2024

(Dollars in thousands)

Institution	Rank	2022	2023	2024											
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec		
Wake Forest U.	272	1,427	1,499	1,499	0	0	0	0	0	0	0	0	1,499		
Marian U., Indianapolis	273	ne	0	1,497	0	363	210	273	367	0	233	0	51		
New School	274	3,301	3,565	1,495	0	0	790	31	7	0	667	0	0		
California State U., San Marcos	275	527	937	1,454	0	55	0	0	46	0	0	0	1,353		
California State U., Chico	276	1,192	1,465	1,450	0	0	0	786	359	106	176	0	23		
Minnesota State U., Mankato	277	871	1,166	1,380	0	0	0	463	55	31	206	0	625		
Harvey Mudd C.	278	608	774	1,338	0	0	0	0	0	0	0	0	1,338		
Boston C.	279	438	592	1,305	0	0	0	0	0	0	0	0	1,305		
U. South Dakota	280	1,447	1,153	1,198	0	1,198	0	0	0	0	0	0	0		
Hampton U.	281	1,215	837	1,188	106	0	162	0	868	0	0	0	52		
California State U., Fullerton	282	1,062	1,355	1,138	0	0	0	211	318	0	352	0	257		
U. Hartford	283	752	1,067	1,095	933	3	0	100	0	0	52	0	7		
Oregon Institute of Technology	284	902 i	1,104 i	1,073 i	0 i	0 i	0 i	218 i	87 i	72 i	118 i	219 i	359 i		
U. Colorado Colorado Springs	285	1,883	1,144	1,070	15	0	0	0	457	0	598	0	0		
U. North Carolina, Wilmington	286	537	1,317	1,027	647	0	0	380	0	0	0	0	0		
Tarleton State U.	287	685	857	1,024	53	0	0	93	0	0	567	19	292		
Purdue U., Fort Wayne	288	169	192	1,017	0	0	0	533	0	0	127	0	357		
Rhode Island School of Design	289	ne	ne	1,013	30	7	0	0	0	0	0	216	760		
U. West Florida	290	450	1,322	924	0	0	0	0	0	0	4	0	920		
Lawrence Technological U.	291	726	816	912	0	97	0	533	22	0	260	0	0		
C. Charleston	292	158	583	911	0	0	0	0	0	0	168	222	521		
U. Texas, Tyler	293	542	812	887	0	0	347	39	188	0	151	0	162		
Pennsylvania State U., Harrisburg	294	160	272	877	0	72	0	59	55	0	621	70	0		
Pennsylvania State U., Altoona	295	ne	425	861	248	0	0	250	0	206	157	0	0		
SUNY, Cobleskill	296	1,211	2,301	856	0	0	0	0	0	0	856	0	0		
U. of the Virgin Islands	297	790	790	792	792	0	0	0	0	0	0	0	0		
Western Illinois U.	298	1,983	717	781 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	781 i	0 i		
Florida Polytechnic U.	299	1,310	1,404	773	0	0	0	0	207	0	234	332	0		
Texas A&M International U.	300	127	175	768	0	23	0	0	0	0	0	29	716		
Utah Valley U.	301	310	668	764	0	0	0	5	713	0	46	0	0		
CUNY, New York City C. of Technology	302	50	806	762	0	0	0	441	143	0	0	0	178		
U. Tennessee, Health Science Center	303	640	683	752	0	752	0	0	0	0	0	0	0		
Manhattan C.	304	899	447	750	0	0	47	617	0	0	86	0	0		
Western New England U.	305	1,464	686	739 i	0 i	56 i	0 i	195 i	167 i	81 i	240 i	0 i	0 i		

Table 22. Higher education R&D expenditures at institutions in the standard form survey population in engineering subfields, ranked by all FY 2024 engineering R&D: FYs 2022–24 and by subfield for FY 2024

Institution	Rank	2022	2023	2024									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
C. New Jersey	306	265	278	729	0	209	0	66	70	0	5	0	379
New York Institute of Technology	307	1,181	844	721	9	0	0	0	492	0	220	0	0
U. Colorado Anschutz Medical Campus	308	957	842	707	0	707	0	0	0	0	0	0	0
James Madison U.	309	808	576	706	0	19	0	0	0	0	0	0	687
U. North Carolina, general administration	310	2,232	ne	700	0	0	0	0	0	0	0	0	700
Lafayette C.	311	384	581	688	0	28	304	267	10	0	53	0	26
U. New Haven	312	329	120	684	0	5	188	13	238	0	81	48	111
U. Detroit Mercy	313	560	1,010	682	0	0	55	6	486	62	73	0	0
Western Kentucky U.	314	510	615	674	0	0	115	23	92	3	426	0	15
Arkansas State U., Jonesboro	315	508	660	668	0	186	0	299	120	22	41	0	0
U. Missouri, Saint Louis	316	0	38	643	0	315	0	328	0	0	0	0	0
U. South Carolina Upstate	317	ne	ne	641	0	0	641	0	0	0	0	0	0
Christopher Newport U.	318	437	541	628	628	0	0	0	0	0	0	0	0
Western Washington U.	319	570	621	614	0	0	0	0	0	0	0	0	614
SUNY, Polytechnic Institute	320	411,929	282,110	612	0	0	0	364	217	0	0	0	31
Savannah State U.	321	609	502	610	0	45	165	120	0	0	0	0	280
U. Southern Maine	322	228	301	600	182	5	0	0	0	0	10	368	35
California State U., Bakersfield	323	440	711	586	0	0	0	0	153	0	0	0	433
Robert Morris U.	324	555 i	612	581	0	509	55	0	13	4	0	0	0
Ferris State U.	325	ne	0	579	0	0	0	0	575	0	0	0	4
Union C., Schenectady	326	446	519	576	0	186	0	55	92	0	195	48	0
Delaware State U.	327	207	419	567	566	0	1	0	0	0	0	0	0
U. Wisconsin-Oshkosh	328	294	157	565	0	0	0	457	75	0	33	0	0
Fairfield U.	329	ne	474	552	0	259	0	0	125	0	165	0	3
U. San Diego	330	820	608	548	0	47	0	0	0	15	0	0	486
Montclair State U.	331	1,129	402	538	0	0	59	451	0	0	0	0	28
Swarthmore C.	332	215	338	528	0	102	0	36	158	0	232	0	0
Liberty U.	333	ne	588	522	0	0	0	55	0	0	464	0	3
Pace U.	334	529	684	498	0	0	0	83	0	0	415	0	0
CUNY, Graduate Center	335	0	206	491	0	491	0	0	0	0	0	0	0
Citadel Military C. South Carolina	336	363	491	488	0	0	0	360	2	0	58	10	58
Western Carolina U.	337	363	395	478	2	48	9	185	0	0	0	0	234
Fort Lewis C.	338	623	628	475	58	0	54	25	20	0	0	0	318
U. Wisconsin-Green Bay	339	465 i	484 i	467 i	0 i	0 i	0 i	140 i	202 i	0 i	125 i	0 i	0 i

Table 22. Higher education R&D expenditures at institutions in the standard form survey population in engineering subfields, ranked by all FY 2024 engineering R&D: FYs 2022–24 and by subfield for FY 2024

(Dollars in thousands)

[illegible]

Table 22. Higher education R&D expenditures at institutions in the standard form survey population in engineering subfields, ranked by all FY 2024 engineering R&D: FYs 2022–24 and by subfield for FY 2024

(Dollars in thousands)

Institution	Rank	2022	2023	2024											
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec		
U. Michigan, Flint	374	ne	ne	142	0	0	0	0	2	83	0	0	57		
Florida Gulf Coast U.	375	222	221	139	0	5	0	11	0	61	0	0	62		
High Point U.	376	ne	ne	138	i	0	i	0	i	89	i	0	0	i	
Keck Graduate Institute	376	0	129	138	0	138	0	0	0	0	0	0	0		
Langston U.	378	0	0	127	0	0	0	127	0	0	0	0	0		
Texas Christian U.	379	88	95	126	0	0	66	0	0	52	0	0	8		
Texas A&M U.-Commerce	380	48	113	123	0	0	0	0	0	0	0	0	123		
Trinity C., Hartford	381	42	71	121	0	0	0	0	0	0	0	0	121		
St. Edward's U.	382	0	0	117	0	117	0	0	0	0	0	0	0		
Lipscomb U.	383	ne	153	113	26	0	0	57	0	0	0	0	30		
Eastern Kentucky U.	384	ne	69	112	0	0	0	0	79	0	0	0	33		
U. North Carolina, Asheville	385	0	2	106	0	0	0	0	0	0	1	0	105		
United Tribes Technical C.	385	ne	444	106	0	0	0	0	0	106	0	0	0		
Dillard U.	387	7	85	101	21	0	0	0	0	0	0	0	80		
Calvin U.	388	129	i	134	i	99	0	0	0	0	69	0	30		
Texas Southern U.	389	24	75	98	0	0	0	0	0	0	0	0	98		
California State U., San Bernardino	390	658	1,108	95	0	10	0	85	0	0	0	0	0		
Sam Houston State U.	391	253	109	93	0	0	0	0	0	0	0	0	93		
Southern Utah U.	392	ne	ne	90	0	0	0	0	0	0	0	0	90		
U. of the Incarnate Word	393	339	289	88	0	0	0	0	0	0	87	0	1		
Bowling Green State U.	394	80	189	86	0	8	0	0	0	0	0	0	78		
Azusa Pacific U.	395	10	21	84	0	0	0	0	0	0	0	0	84		
Southeastern Louisiana U.	396	24	140	81	0	0	0	0	0	81	0	0	0		
U. Houston-Downtown	396	71	79	81	0	66	0	15	0	0	0	0	0		
Virginia Military Institute	396	119	147	81	0	0	0	9	2	0	70	0	0		
DePaul U.	399	76	106	80	16	0	0	0	0	0	0	0	64		
Valparaiso U.	400	ne	ne	79	26	0	0	6	0	0	0	1	46		
Midwestern State U.	401	ne	ne	78	0	0	0	0	0	0	78	0	0		
Sonoma State U.	402	17	67	74	24	0	0	0	50	0	0	0	0		
U. Central Arkansas	402	0	221	74	0	0	0	0	0	0	0	0	74		
Abilene Christian U.	404	29	15	68	0	0	0	58	0	0	0	10	0		
Sacred Heart U.	405	ne	0	62	0	0	0	0	62	0	0	0	0		
Ball State U.	406	0	32	58	0	0	0	58	0	0	0	0	0		
Indiana State U.	406	87	59	58	0	0	0	54	0	0	0	0	4		

Table 22. Higher education R&D expenditures at institutions in the standard form survey population in engineering subfields, ranked by all FY 2024 engineering R&D: FYs 2022–24 and by subfield for FY 2024

(Dollars in thousands)

Institution	Rank	2022	2023	2024										
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec	
Indiana U. Pennsylvania	408	0	0	56	0	0	0	0	0	0	0	0	56	
Elon U.	409	18	30	53	0	0	0	10	0	0	0	0	43	
Providence C.	409	ne	0	53	0	0	0	0	0	0	53	0	0	
U. Wisconsin-Stevens Point	411	111	82	51	0	0	45	0	0	0	0	0	6	
West Chester U. Pennsylvania	411	0	51	51	0	51	0	0	0	0	0	0	0	
U. Central Oklahoma	413	93	50	50	0	50	0	0	0	0	0	0	0	
Hawaii Pacific U.	414	14	0	47	0	0	0	0	47	0	0	0	0	
California State U., Monterey Bay	415	0	23	45	0	45	0	0	0	0	0	0	0	
Northern Michigan U.	415	0	0	45	0	0	0	0	0	34	11	0	0	
St. Cloud State U.	417	30	54	42	0	0	0	0	41	0	1	0	0	
U. Alaska, Southeast	418	0	92	41	0	0	0	0	0	0	0	0	41	
Merrimack C.	419	ne	16	39	0	0	0	36	0	0	3	0	0	
Troy U.	420	56	47	38	0	0	0	0	0	0	0	0	38	
Wellesley C.	421	395	50	33	33	0	0	0	0	0	0	0	0	
Claflin U.	422	63	63	32	0	0	0	0	0	0	0	32	0	
Carthage C.	423	ne	ne	28	28	0	0	0	0	0	0	0	0	
U. Wisconsin-Eau Claire	424	0	0	24	0	0	24	0	0	0	0	0	0	
Loyola U., Chicago	425	95	151	23	0	0	0	0	0	0	0	0	23	
CUNY, C. Staten Island	426	0	288	19	0	3	0	0	0	0	0	0	16	
Eastern Michigan U.	427	407	534	18	0	0	0	0	0	0	0	0	18	
U. North Georgia	427	0	0	18	0	18	0	0	0	0	0	0	0	
Lake Superior State U.	429	41	43	11	0	0	0	0	0	0	0	0	11	
Towson U.	429	0	0	11	3	0	0	8	0	0	0	0	0	
U. of the Pacific	431	135	128	10	0	10	0	0	0	0	0	0	0	
Colorado State U., Pueblo	432	0	8	9 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	9 i	
Seattle Pacific U.	432	ne	ne	9	0	3	0	0	6	0	0	0	0	
U. San Francisco	432	3	4	9	0	3	0	1	5	0	0	0	0	
Andrews U.	435	ne	48	8	0	7	0	0	0	0	0	1	0	
Central Washington U.	436	32	56	6	0	0	0	0	0	0	0	0	6	
Southern Connecticut State U.	436	0	0	6	0	0	0	0	0	0	0	0	6	
Des Moines U.	438	0	0	5	0	5	0	0	0	0	0	0	0	
U. Wisconsin-River Falls	438	ne	42	5	0	0	0	0	0	0	0	0	5	
U. Wisconsin-Superior	440	297	0	4	4	0	0	0	0	0	0	0	0	
Austin Peay State U.	441	0	9	3	0	0	0	0	3	0	0	0	0	

Table 22. Higher education R&D expenditures at institutions in the standard form survey population in engineering subfields, ranked by all FY 2024 engineering R&D: FYs 2022–24 and by subfield for FY 2024

(Dollars in thousands)

Institution	Rank	2022	2023	2024															
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec						
California State U., Channel Islands	441	4	0	3	0	0	0	0	0	0	0	0	3						
Carleton C.	443	0	1 i	1 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	1 i						
Kean U.	443	32	1	1	0	0	0	1	0	0	0	0	0						
New Mexico Highlands U.	443	0 i	0	1	0	1	0	0	0	0	0	0	0						
Salisbury U.	443	3	3	1	0	0	0	0	0	0	0	0	1						
U. Scranton	443	ne	4	1	0	0	0	0	0	0	1	0	0						
All other surveyed institutions	-	74,197	2,347	0	0	0	0	0	0	0	0	0	0						

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

nec = not elsewhere classified.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory (APL), with \$1,552,813 thousand imputed for total R&D expenditures in engineering in FY 2024. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

<sup>b</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>c</sup> The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

<sup>d</sup> The University of Oklahoma includes expenditures from the University of Oklahoma, Tulsa and University of Oklahoma, Norman and Health Science Center campuses. Due to a reorganization, the campuses began reporting as one unit in FY 2024.

**Note(s):**  
Institutions reporting zero expenditures in ranked total for FY 2024 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 5](#).

**Source(s):**  
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.



Table 23. Higher education R&D expenditures at institutions in the standard form survey population in non-science and engineering fields, ranked by all FY 2024 non-S&E fields: FYs 2022–24 and by subfield for FY 2024

(Dollars in thousands)

Institution	Rank	2022	2023	2024										
				All non-S&E fields	Business management and business administration		Communication and communications technologies		Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec
All institutions	-	5,863,853	6,897,930	7,569,236	1,349,055		263,204		2,218,025	926,242	443,674	461,284	302,978	1,604,774
Arizona State U.	1	128,398	163,241	195,560	52,797		8,623		89,657	10,776	4,803	15,966	12,938	0
U. Pennsylvania	2	139,339	146,054	166,355	95,903		7,070		14,677	10,934	18,151	0	4,393	15,227
Harvard U.	3	111,157	138,179	156,256	37,252		674		51,099	39,056	23,294	8	4,873	0
U. Wisconsin-Madison	4	95,771	115,891	125,044	15,501		11,672		37,684	19,739	7,777	1,171	3,479	28,021
U. Kansas	5	86,502	114,437	122,766	1,532		1,599		97,531	2,865	30	17,026	921	1,262
Florida State U.	6	88,449	103,341	113,505	14,535		2,802		54,380	11,317	5,141	15,545	7,056	2,729
U. Virginia, Charlottesville	7	70,333	95,871	113,319	6,752		589		56,825	8,766	1,096	0	762	38,529
New York U.	8	115,115	124,024	112,924	9,355		0		31,893	21,676	30,694	6,772	2,234	10,300
U. Michigan, Ann Arbor	9	121,582	110,536	111,250	16,943		2,034		11,859	25,531	9,071	10,238	5,075	30,499
Virginia Commonwealth U.	10	82,129	83,203	107,804	7,990		28		30,306	18,161	0	3,140	13,759	34,420
Vanderbilt U. and Vanderbilt U. Medical Center	11	77,399	105,876	105,309	11,126		0		62,081	2,470	8,919	0	7,878	12,835
U. Texas, Austin	12	65,855	96,169	96,093	6,136		11,719		28,730	11,664	1,041	6,600	920	29,283
Syracuse U.	13	77,564	85,912	93,701	25,281		8,379		7,503	14,617	12,544	1,603	4,050	19,724
U. California, Berkeley	14	74,758	87,562	92,111	25,342		7,726		17,216	7,418	32,230	0	918	1,261
U. Utah	15	117,635	97,729	90,164	2,004		2,486		1,790	380	1,007	0	1,342	81,155
Clemson U.	16	59,137	66,338	83,473	3,148		468		9,296	349	0	0	35	70,177
Purdue U., West Lafayette	17	63,268	72,281	82,288	16,413		2,194		10,601	3,016	0	0	613	49,451
U. Georgia	18	70,657	73,671	80,453	23,035		4,012		11,722	9,455	4,971	10,171	6,176	10,911
U. California, Los Angeles	19	65,643	75,276	80,391	21,362		4,530		38,497	7,540	4,268	0	3,953	241
Texas State U.	20	52,359	71,212	75,878	7,758		0		12,498	5,327	41,748	0	0	8,547
Ohio State U.	21	73,945	71,409	71,385	6,167		88		30,818	1,918	3,497	10,565	1,186	17,146
U. South Florida	22	65,953	67,509	70,560	9,671		2,473		42,350	6,361	0	788	4,242	4,675
Cornell U.	23	49,756	59,047	70,385	22,817		9,152		399	3,811	1,604	0	625	31,977
Texas A&M U., College Station and Health Science Center	24	56,295	65,005	68,051	15,484		1,272		35,495	2,042	966	5	518	12,269
U. Southern California	25	61,177	74,487	67,549	1,429		8,742		15,419	3,950	247	14,639	2,817	20,306
U. Maryland <sup>a</sup>	26	63,141	70,305	67,279	493		523		14,205	4,242	6,876	20,644	4,934	15,362
Columbia U. in the City of New York	27	62,587	62,808	65,562	2,825		1,974		4,855	10,253	15,155	27,493	1,982	1,025
Georgia State U.	28	66,267	72,569	65,392	13,720		6,660		31,711	2,390	2,327	3,059	1,448	4,077
Massachusetts Institute of Technology	29	48,875	49,982	64,801	10,577		464		37,980	1,493	0	65	13	14,209
U. North Carolina, Chapel Hill	30	56,417	73,449	62,474	4,850		1,688		15,462	3,522	41	24,635	909	11,367
U. Washington, Seattle	31	68,040	70,290	62,288	347		1,883		36,680	2,859	662	14,785	386	4,686
Georgetown U.	32	44,734	52,739	61,684	18,020		595		1,078	5,042	34,138	0	0	2,811
U. Minnesota, Twin Cities	33	42,387	51,985	60,184	22,013		355		20,265	3,838	2,363	1,134	443	9,773
U. Oklahoma <sup>b</sup>	34	54,089	62,775	57,908	11,483		2,648		13,352	6,724	1,941	2,170	4,348	15,242

Table 23. Higher education R&D expenditures at institutions in the standard form survey population in non-science and engineering fields, ranked by all FY 2024 non-S&E fields: FYs 2022–24 and by subfield for FY 2024

(Dollars in thousands)

Institution	Rank	2022	2023	2024									
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec	
U. Notre Dame	35	38,564	54,778	57,542	8,902	0	54	10,171	2,931	0	893	34,591	
Brigham Young U., Provo	36	4,876	46,372	57,538	16,111	134	5,829	17,186	2,569	357	3,553	11,799	
U. Florida	37	44,949	52,838	57,282	4,046	3,141	22,960	3,360	251	4	3,059	20,461	
Stanford U.	38	44,597	48,715	57,200	876	640	52,024	1,301	1,980	0	325	54	
George Washington U.	39	18,306	67,284	54,054	14,559	49	5,972	8,397	13,313	0	2,146	9,618	
Texas Tech U.	40	57,545	53,851	53,935	17,476	3,871	18,000	4,749	1,704	0	3,262	4,873	
U. Illinois, Urbana-Champaign	41	38,841	46,838	53,431	4,738	4,804	5,527	5,455	844	8,795	2,143	21,125	
Dartmouth C. and Dartmouth Hitchcock Medical Center	42	38,778	42,799	52,953	20,947	0	132	21,585	0	0	2,952	7,337	
SUNY, U. Buffalo	43	22,651	26,090	51,636	17,836	919	28,785	1,030	496	305	8	2,257	
Michigan State U.	44	39,370	55,669	50,963	6,701	6,816	17,754	4,807	0	3,494	710	10,681	
U. Louisiana, Lafayette	45	40,623	44,707	50,202	15,590	1,552	16,494	11,169	0	298	3,006	2,093	
American U.	46	35,931	40,180	50,043	961	2,428	3,060	76	6,333	0	44	37,141	
Auburn U., Auburn	47	41,056	46,129	50,019	18,279	961	3,943	6,392	0	312	0	20,132	
Baylor U.	48	14,487	23,664	49,667	10,418	1,645	3,972	26,844	0	2,031	2,651	2,106	
U. Missouri, Columbia	49	34,489	47,845	49,615	424	2,763	28,145	3,700	189	1,132	2,038	11,224	
Boston U.	50	34,597	46,736	49,528	9,654	885	17,319	9,816	4,814	5,661	675	704	
Pennsylvania State U., University Park and Hershey Medical Center	51	37,651	44,362	48,386	6,633	2,661	27,414	6,853	2,003	1,379	1,443	0	
U. Alabama, Tuscaloosa	52	40,440	41,017	47,967	17,700	3,477	9,104	5,167	2,078	1,565	2,357	6,519	
U. South Carolina, Columbia	53	44,972	47,718	47,750	9,782	563	12,497	3,649	662	2,547	1,431	16,619	
U. California, San Diego	54	26,391	53,426	46,664	3,733	819	13,226	3,315	0	0	1,299	24,272	
Indiana U., Bloomington	55	38,886	42,637	46,437	6,117	2,251	6,009	3,060	1,268	0	6,589	21,143	
San Diego State U.	56	27,673	35,318	45,631	9,615	1,689	8,150	6,874	0	6,255	2,164	10,884	
U. Texas, San Antonio	57	35,646	42,732	44,811	8,883	1,396	7,908	5,051	0	4,020	926	16,627	
U. Nebraska, Lincoln and Medical Center <sup>C</sup>	58	na	40,293	44,527	11,095	1,189	5,738	8,206	4,387	0	5,589	8,323	
Rutgers, State U. New Jersey, New Brunswick	59	30,129	38,303	44,369	3,428	1,545	13,286	4,336	0	5,555	390	15,829	
U. Colorado Boulder	60	36,566	35,426	43,958	1,337	3,045	36,652	1,431	509	360	0	624	
Oklahoma State U., Stillwater	61	35,302	38,120	43,761	19,258	2,420	2,274	5,502	0	0	1,238	13,069	
Northwestern U.	62	32,235	39,291	43,751	16,102	4,174	14,675	4,344	2,507	0	1,876	73	
Washington State U.	63	45,834	44,791	43,178	12,761	5,790	19,838	1,574	61	1,317	118	1,719	
U. Tennessee, Knoxville	64	31,439	34,040	42,256	11,940	4,612	5,536	6,849	2,857	6,141	2,579	1,742	
U. Arizona	65	30,072	34,451	40,127	12,390	1,251	6,461	9,425	3,698	0	4,487	2,415	
U. Iowa	66	33,562	36,288	38,598	9,061	1,407	14,030	6,200	872	330	371	6,327	
U. Houston	67	31,473	35,336	38,568	2,605	838	8,447	3,065	1,252	8,250	104	14,007	
U. Oregon	68	31,289	30,648	38,051	4,088	1,653	18,059	1,106	1,769	0	744	10,632	
Iowa State U.	69	24,896	32,542	37,316	20,110	776	2,798	7,629	0	0	2,205	3,798	

Table 23. Higher education R&D expenditures at institutions in the standard form survey population in non-science and engineering fields, ranked by all FY 2024 non-S&E fields: FYs 2022–24 and by subfield for FY 2024

(Dollars in thousands)

Institution	Rank	2022	2023	2024										
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec		
U. California, Irvine	70	31,745	36,821	35,399	983	0	22,442	8,773	1,464	0	1,737	0		
U. North Texas, Denton	71	27,017	30,187	34,097	14,818	1,544	3,513	2,584	341	701	7,415	3,181		
Emory U.	72	20,078	17,360	34,015	797	58	0	4,899	1,356	0	2,138	24,767		
Washington U., Saint Louis	73	30,865	35,829	33,904	21	0	382	390	154	32,866	38	53		
U. Central Florida	74	35,796	28,938	33,614	14,968	1,402	7,383	4,179	309	2,218	832	2,323		
Boston C.	75	22,395	27,605	33,004	13	56	20,876	947	267	10,160	53	632		
U. Cincinnati	76	23,750	31,433	32,583	3,387	103	7,172	4,629	123	0	197	16,972		
Northeastern U.	77	20,199	30,558	31,878	6,771	3,682	6,786	2,300	4,826	0	1,952	5,561		
Georgia Institute of Technology	78	23,468	27,565	31,643	245	5,195	15,503	617	3	0	1,007	9,073		
U. Mississippi	79	29,426	28,700	31,179	12,316	571	4,227	5,001	3,760	375	1,803	3,126		
U. North Carolina, Greensboro	79	19,100	23,274	31,179	60	91	21,012	330	0	4,509	87	5,090		
Virginia Polytechnic Institute and State U.	81	18,633	24,597	29,671	4,416	3	2,968	358	0	0	489	21,437		
Florida International U.	82	31,959	25,466	29,425	11,081	1,289	5,712	5,273	1,413	398	2,670	1,589		
Kennesaw State U.	83	5,577	15,451	29,302	5,595	0	4,784	12,899	0	4,725	1,167	132		
U. Massachusetts, Boston	84	27,462	27,187	28,927	804	142	25,769	1,496	0	152	525	39		
CUNY, Graduate Center	85	3,628	23,377	28,859	1,754	5	580	20,043	0	1,288	5,189	0		
U. Delaware	86	24,548	23,965	28,839	741	2,246	10,295	12,979	0	0	2,497	81		
Montana State U., Bozeman	87	19,869	24,358	28,527	2,154	144	7,295	1,878	0	0	1,335	15,721		
U. Illinois, Chicago	88	17,810	22,085	28,127	1,532	235	4,688	9,781	22	6,837	433	4,599		
U. Arkansas, Fayetteville	89	20,062	29,354	27,420	2,195	767	7,209	110	654	1,202	152	15,131		
Illinois State U.	90	17,699	23,274	26,531	18	85	8,737	204	0	1,072	70	16,345		
George Mason U.	91	27,597	27,200	25,820	2,736	2,141	6,124	3,241	10,795	0	283	500		
Southern Methodist U.	92	20,226	22,513	25,764	4,634	4	10,719	1,409	5,027	0	3,971	0		
SUNY, U. Albany	93	24,923	24,414	25,442	5,533	1,030	6,101	6,532	0	1,522	1,255	3,469		
U. Denver	94	20,867	23,859	24,943	12	25	5,900	242	395	16,538	119	1,712		
East Tennessee State U.	95	967	22,267	24,915	281	0	1,076	0	0	0	0	23,558		
Wayne State U.	96	11,251	12,854	24,254	297	235	2,542	258	1,253	10,479	248	8,942		
North Carolina State U.	97	15,453	16,870	23,852	1,855	0	14,288	7,709	0	0	0	0		
U. Texas, El Paso	98	23,509	22,347	23,480	7,667	1,792	4,315	3,706	0	1,773	1,412	2,815		
U. North Carolina, Charlotte	99	4,862	23,809	23,322	5,112	720	5,482	4,959	0	1,070	1,298	4,681		
San Jose State U.	100	16,508	22,249	23,195	12,404	306	3,775	4,860	0	677	4	1,169		
U. Texas, Arlington	101	20,034	22,730	22,514	3,809	160	2,341	1,000	0	6,415	192	8,597		
Yale U.	102	8,568	15,454	21,551	1,219	0	6,392	9,949	524	0	360	3,107		
Carnegie Mellon U.	103	17,006	17,696	21,057	11,128	92	1,318	5,778	0	0	2,611	130		
Temple U.	104	19,912	16,351	21,012	5,567	598	6,564	659	3,917	965	462	2,280		

Table 23. Higher education R&D expenditures at institutions in the standard form survey population in non-science and engineering fields, ranked by all FY 2024 non-S&E fields: FYs 2022–24 and by subfield for FY 2024

(Dollars in thousands)

Institution	Rank			2022	2023	2024										
						All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec		
U. Nevada, Las Vegas	105	22,489		16,489		20,512	2,338	600	8,234	3,602	2	170	479	5,087		
U. Connecticut	106	10,677		14,593		20,397	642	502	3,207	1,510	85	11,219	1,109	2,123		
SUNY, Binghamton U.	107	20,383		19,194		20,315	2,004	193	3,184	9,208	0	244	2,342	3,140		
Louisiana State U., Baton Rouge	108	11,158		23,348		20,172	1,693	610	1,212	651	690	1,548	5,909	7,859		
U. Massachusetts, Amherst	109	21,731		21,006		20,027	2,145	1,036	5,728	1,876	29	0	750	8,463		
U. Louisville	110	12,133		14,407		19,994	7,524	180	3,904	942	182	2,926	861	3,475		
U. Kentucky	111	13,160		14,966		19,519	3,727	355	2,240	3,090	21	4,518	959	4,609		
Colorado State U., Fort Collins	112	11,372		14,637		19,402	364	2	7,562	4,383	154	1,063	294	5,580		
U. Memphis	113	17,033		32,482		19,184	2,002	115	5,641	437	1,022	1,347	788	7,832	i	
Wichita State U.	114	16,009		16,960		18,999	1,804	118	826	1,789	0	0	0	14,462		
Mississippi State U.	115	20,002		20,458		18,906	7,024	724	3,812	3,266	679	549	961	1,891		
U. Vermont	116	14,448		16,080		18,092	4,606	651	3,909	6,582	0	258	1,531	555		
Western Michigan U. and Homer Stryker M.D. School of Medicine	117	6,918		10,147		17,676	3,382	890	6,810	3,005	1,044	205	2,134	206		
U. California, Santa Barbara	118	12,454		14,915		17,662	10,382	92	5,178	1,631	0	0	291	88		
Kent State U.	119	15,735		16,693		17,549	5,106	1,672	5,122	2,376	22	0	1,026	2,225		
U. West Florida	120	24,425		23,286		17,530	13,468	35	2,718	0	54	45	2	1,208		
U. California, Davis	121	13,147		15,898		17,387	126	411	9,192	1,433	685	0	5,036	504		
Kansas State U.	122	13,919		14,655		16,933	3,545	660	4,052	1,196	0	0	1,120	6,360		
U. Texas Rio Grande Valley	123	11,699		13,155		16,775	5,973	386	3,451	2,697	0	551	1,585	2,132		
U. Texas, Dallas	124	10,177		13,762		16,771	13,157	0	1,469	1,823	0	42	56	224		
Fordham U.	125	12,878		15,569		16,584	3,265	789	980	3,433	5,876	973	4	1,264		
U. Nevada, Reno	126	15,943		18,178		16,504	5,412	836	5,063	3,058	0	372	1,763	0		
Montclair State U.	127	11,396		13,215		16,185	3,633	671	4,518	3,805	32	634	1,420	1,472		
U. North Dakota	128	11,435		13,731		16,043	1,255	911	7,417	1,976	1,988	267	784	1,445		
Johns Hopkins U. <sup>d</sup>	129	10,120	i	13,955	i	15,912	0	0	0	15,798	0	0	0	114	i	
Florida Gulf Coast U.	130	3,879		17,395		15,793	1,360	0	8,555	2	0	0	28	5,848		
Indiana U.-Purdue U., Indianapolis	131	7,478		14,045		15,618	2,728	147	2,512	1,050	4	5,659	875	2,643		
Florida Atlantic U.	132	3,155		9,983		15,552	4,204	0	705	1,599	0	504	0	8,540		
Tulane U.	133	15,158		16,517		15,306	96	483	0	1,136	4,895	0	1,160	7,536		
CUNY, John Jay C. of Criminal Justice	134	11,352		16,471		15,200	0	0	22	1,748	13,101	0	0	329		
Tufts U.	135	4,449		9,972		15,084	29	0	1,747	2,908	2,126	0	471	7,803		
U. Southern Mississippi	136	8,034		9,400		14,992	1,892	264	4,634	2,332	0	233	365	5,272		
Case Western Reserve U.	137	1,156		4,423		14,778	1,304	51	3,941	283	1,501	5,177	0	2,521		
West Virginia U.	138	8,001		11,421		14,664	3,593	117	1,941	591	646	245	65	7,466		
Duke U.	139	15,868		17,811		14,526	7,516	0	303	4,652	1,207	0	143	705		

Table 23. Higher education R&D expenditures at institutions in the standard form survey population in non-science and engineering fields, ranked by all FY 2024 non-S&E fields: FYs 2022–24 and by subfield for FY 2024

(Dollars in thousands)

Institution	Rank	2022	2023	2024											
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec			
Brown U.	140	12,850	17,465	14,459	0	185	4,870	3,517	0	0	434	5,453			
William & Mary	141	11,811	10,192	14,235	1,447	0	10,483	1,265	1,003	0	19	18			
U. New Hampshire	142	14,692	13,387	14,180	5,017	517	3,839	3,291	0	804	586	126			
Georgia Southern U.	143	12,207	12,553	14,162	4,162	271	3,697	2,828	468	15	1,432	1,289			
California State U., Fullerton	144	4,242	8,931	13,893	5,992	388	1,568	4,569	0	544	404	428			
U. California, Santa Cruz	145	4,989	9,544	13,681	0	0	1,232	6,566	0	0	5,240	643			
U. Alabama, Birmingham	146	11,712	11,221	13,164	576	20	8,085	0	0	220	1	4,262			
Rice U.	147	5,892	5,578	13,162	2,550	0	7,666	2,158	0	0	123	665			
U. Chicago	148	13,451	12,443	13,141	2,846	0	3,841	813	0	5,090	0	551			
Portland State U.	149	8,466	9,513	13,039	495	43	3,624	68	0	3,911	73	4,825			
Chapman U.	150	12,712	13,896	12,836	210	742	2,226	258	986	0	1,499	6,915			
U. Montana, Missoula	151	11,706	11,422	12,800	883	1,556	2,702	765	591	6,221	1	81			
U. Pittsburgh, Pittsburgh	152	10,492	10,205	12,562	778	206	4,576	566	170	2,129	0	4,137			
Princeton U.	153	16,760	17,938	12,387	0	17	2,667	8,507	0	40	226	930			
U. Maryland, Baltimore County	154	9,562	11,975	12,004	437	437	2,884	5,350	0	431	1,852	613			
Drexel U.	155	9,359	13,272	11,813	350	39	3,988	584	11	0	373	6,468			
North Dakota State U.	156	8,936	10,955	11,554	6,974	838	1,312	0	0	0	406	2,024			
CUNY, Hunter C.	157	7,692	8,108	11,511	0	0	1,241	2,849	299	481	1,096	5,545			
Florida A&M U.	158	8,850	15,443	11,357	723	0	3,081	0	520	0	0	7,033			
Morgan State U.	159	4,304	6,783	11,355	470	646	3,111	402	0	1,593	102	5,031			
U. California, Riverside	160	5,900	8,147	11,301	2,581	22	3,463	2,021	0	0	286	2,928			
U. Maine	161	10,851	11,238	11,282	1,976	794	2,047	2,220	0	938	575	2,732			
Saint Louis U.	162	3,175	10,096	10,618	189	96	5,828	3,132	226	544	8	595			
U. Alabama, Huntsville	163	8,906	9,928	10,184	3,116	123	5,822	731	16	2	372	2			
Oregon State U.	164	5,928	6,360	9,951	0	0	4,046	0	0	0	0	5,905			
CUNY, City C.	165	4,998	18,951	9,880	0	12	1,380	86	0	67	45	8,290			
Eastern Michigan U.	166	3,516	2,537	9,745	1,992	45	109	1,902	123	2,434	576	2,564			
U. Colorado Anschutz Medical Campus	167	2,142	6,448	9,665	0	0	211	0	0	330	0	9,124			
James Madison U.	168	5,976	9,645	9,643	1,578	730	2,385	1,820	100	0	1,601	1,429			
New Jersey Institute of Technology	169	11,694	8,448	9,570	4,132	0	998	1,487	0	0	0	2,953			
Catholic U. of America	170	8,156	7,969	9,541	1,106	0	0	3,716	513	1,241	847	2,118			
Rowan U.	171	226	6,955	9,233	2,337	1,652	1,934	2,024	649	0	551	86			
Marquette U.	172	9,767	10,993	9,107	194	1,396	438	2,004	1,129	0	6	3,940			
Loyola Marymount U.	173	6,745	7,270	9,078	872	78	4,377	1,588	1,500	0	101	562			
U. Miami	174	4,537	8,699	9,053	4,291	250	1,976	542	1,576	0	175	243			

Table 23. Higher education R&D expenditures at institutions in the standard form survey population in non-science and engineering fields, ranked by all FY 2024 non-S&E fields: FYs 2022–24 and by subfield for FY 2024

(Dollars in thousands)

Institution	Rank	2022	2023	2024									
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec	
Cleveland State U.	175	7,970	10,080	8,911	3,147	236	708	3	78	375	0	4,364	
Salisbury U.	176	6,262	8,380	8,897	1,752	105	2,933	325	3	2,548	47	1,184	
California State U., East Bay	177	11,585	15,280	8,821	211	17	8,109	29	74	207	28	146	
Ohio U.	178	4,975	8,199	8,767	3,175	60	1,925	971	0	156	708	1,772	
Texas Christian U.	179	2,926	8,428	8,736	1,646	57	3,931	1,451	0	28	1,171	452	
U. New Mexico	180	5,803	7,587	8,699	2,676	869	2,082	526	623	128	158	1,637	
U. North Florida	181	9,343	11,042	8,692	3,323	52	4,541	543	0	0	173	60	
U. Rhode Island	182	13,913	10,148	8,579	1,156	632	2,025	771	58	555	8	3,374	
Howard U.	183	948	6,714	8,366	1,965	5,441	675	0	0	285	0	0	
Nova Southeastern U.	184	3,403	3,313	8,233	4,326	0	1,006	0	2,591	0	25	285	
U. Wyoming	185	7,226	10,226	8,232	1,541	171	1,030	208	1,763	147	1,261	2,111	
U. Wisconsin-Milwaukee	186	6,317	7,142	8,223	78	380	1,656	3,052	0	1,244	126	1,687	
U. Idaho	187	3,405	7,208	8,200	626	141	2,549	856	590	0	498	2,940	
Rensselaer Polytechnic Institute	188	7,477	10,647	7,985	2,750	73	0	0	0	0	1,348	3,814	
U. Colorado Denver	189	4,957	6,059	7,903	0	152	5,333	0	87	83	0	2,248	
Winston-Salem State U.	190	4,758	3,941	7,804	268	0	7,350	0	0	0	0	186	
U. Puerto Rico, Rio Piedras	191	5,924	7,913	7,708	279	12	246	145	40	63	15	6,908	
U. California, Merced	192	4,702	7,174	7,701	614	207	647	1,500	0	302	138	4,293	
Villanova U.	193	7,073	7,785	7,451	1,640	37	808	2,255	743	0	0	1,968	
Rochester Institute of Technology	194	7,817	7,285	7,331	238	30	5,154	74	0	0	1,468	367	
North Carolina A&T State U.	195	6,482	9,786	7,275	1,853	0	2,689	0	0	260	0	2,473	
Brandeis U.	196	15,399	11,447	7,265	1,973	0	483	2,407	40	0	703	1,659	
Lawrence Technological U.	197	2,102	3,632	7,164	7,070	0	0	0	0	0	0	94	
East Carolina U.	198	8,709	6,633	7,154	2,843	40	1,510	1,369	0	175	56	1,161	
Sam Houston State U.	199	4,219	3,713	7,148	168	52	2,734	9	58	20	34	4,073	
Wake Forest U.	200	7,369	7,985	6,910	0	83	187	5,424	128	0	333	755	
U. Missouri, Kansas City	201	1,972	3,963	6,858	1,682	4	1,013	185	920	12	1,272	1,770	
Utah State U.	202	4,887	4,877	6,702	68	102	2,988	695	0	152	79	2,618	
Long Island U.	203	3,505	3,645	6,532	1,308	93	3,918	921	0	292	0	0	
Tarleton State U.	204	3,262	4,801	6,513	1,601	181	1,612	365	1,388	0	0	1,366	
U. New Orleans	204	7,222	6,979	6,513	262	0	297	1,958	0	4	445	3,547	
U. Toledo	206	4,834	5,371	6,465	92	0	4,938	27	0	793	0	615	
Louisiana Tech U.	207	5,207	6,008	6,309	3,627	220	1,399	376	0	0	557	130	
Texas A&M U.-Corpus Christi	208	4,023	4,371	6,307	11	17	1,295	14	0	0	57	4,913	
Miami U.	209	6,144	6,148	6,232	736	512	1,716	252	0	154	258	2,604	



Table 23. Higher education R&D expenditures at institutions in the standard form survey population in non-science and engineering fields, ranked by all FY 2024 non-S&E fields: FYs 2022–24 and by subfield for FY 2024

(Dollars in thousands)

Institution	Rank	2022	2023	2024												
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec				
Tennessee Technological U.	210	1,150	1,743	6,157	1,667	64	1,079	42	0	0	401	2,904				
Northwest Indian C.	211	4,841	5,338	6,036	0	78	5,958	0	0	0	0	0				
U. San Diego	212	5,029	6,364	6,020	1,232	158	1,402	432	1,492	0	146	1,158				
Southern Illinois U., Carbondale	213	0	4,059	5,878	606	626	2,498	422	26	49	512	1,139				
Delaware State U.	214	5,582	725	5,855	1,781	215	3,223	158	0	477	1	0				
Marshall U.	215	2,710	4,175	5,824	1,740	0	1,950	967	0	0	0	1,167				
SUNY, Stony Brook U.	216	4,347	6,620	5,653	368	690	203	2,152	0	1,384	815	41				
Old Dominion U.	217	4,982	5,230	5,622	1,597	0	3,461	92	0	0	118	354				
High Tech High Graduate School of Ed.	218	6,203	5,939	5,585	0	0	5,585	0	0	0	0	0				
California Polytechnic State U., San Luis Obispo	219	4,155	5,277	5,521	3,130	147	1,270	957	0	0	14	3				
Bowling Green State U.	220	5,979	6,425	5,302	30	0	3,582	260	0	0	592	838				
Western U. of Health Sciences	221	1,986	3,983	5,194	0	0	5,194	0	0	0	0	0				
U. South Alabama	222	1,571	1,214	5,177	0	64	2,939	1,135	0	0	676	363				
U. San Francisco	223	578	4,831	5,142	869	769	1,557	903	34	0	785	225				
Naval Postgraduate School	224	5,161	5,719	5,067	1,250	395	961	46	0	0	0	2,415				
Naval War C.	225	4,600	5,019	5,048	0	0	0	0	0	0	0	5,048				
U. Dayton	226	2,058	3,759	5,042	295	0	4,111	40	0	319	273	4				
DePaul U.	227	2,233	6,702	4,972	455	19	932	93	79	285	220	2,889				
Benedict C.	228	ne	0	4,824	813	236	2,556	129	0	56	26	1,008				
Western Washington U.	228	3,782	3,733	4,824	256	214	2,512	1,042	0	0	386	414				
California State U., Sacramento	230	3,407	4,298	4,756	1,019	77	3,097	231	0	98	183	51				
Hofstra U.	231	2,981	3,538	4,607	966	201	882	942	1,096	0	444	76				
Pepperdine U.	232	1,082	3,468	4,289	1,668	392	732	507	352	0	124	514				
Towson U.	233	2,563	5,376	4,160	895	434	1,116	455	0	0	911	349				
U. Hawaii, Manoa	234	3,355	3,850	4,056	30	48	1,926	188	82	367	4	1,411				
National U.	235	ne	ne	4,052	0	0	4,043	0	0	0	0	9				
Tennessee State U.	236	187	6,366	3,985	0	8	1	0	0	15	0	3,961				
California State Polytechnic U., Pomona	237	909	2,688	3,901	35	0	508	0	0	0	0	3,358				
Worcester Polytechnic Institute	238	3,377	4,315	3,893	1,771	0	744	372	0	0	0	1,006				
CUNY, Brooklyn C.	239	788	1,465	3,882	212	7	295	932	0	0	605	1,831				
Rutgers, State U. New Jersey, Newark	240	5,039	4,689	3,849	2,090	0	457	208	478	67	81	468				
U. Northern Colorado	241	906	3,844	3,832	821	136	1,875	0	0	0	812	188				
U. Tulsa	242	960	4,944	3,787	894	10	411	1,392	146	0	62	872				
National Louis U.	243	ne	ne	3,756	0	0	3,756	0	0	0	0	0				
Ball State U.	244	2,528	3,271	3,751	1,107	315	568	180	0	256	213	1,112				



Table 23. Higher education R&D expenditures at institutions in the standard form survey population in non-science and engineering fields, ranked by all FY 2024 non-S&E fields: FYs 2022–24 and by subfield for FY 2024

(Dollars in thousands)

Institution	Rank	2022	2023	2024									
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec	
Yeshiva U.	245	1,086	2,040	3,739	76	0	1,784	0	1,545	334	0	0	
Jackson State U.	246	1,363	872	3,738	235	0	2,476	509	14	78	37	389	
Prairie View A&M U.	247	3,068	3,664	3,720	82	0	1,183	148	2,278	0	0	29	
Providence C.	248	ne	3,519	3,667	0	0	3,325	17	0	0	15	310	
U. South Dakota	249	4,182	3,251	3,663	870	149	342	608	653	230	490	321	
New School	250	6,625	6,386	3,592	104	43	1,637	294	0	421	301	792	
Boise State U.	251	2,921	2,938	3,505	799	56	758	492	200	309	240	651	
Northern Illinois U.	252	6,348	6,047	3,458	705	13	1,242	39	0	0	338	1,121	
U. Massachusetts, Lowell	253	8,832	8,411	3,452	250	0	1,479	912	0	0	0	811	
Grinnell C.	254	3,026	2,811	3,405	0	0	107	2,569	0	0	393	336	
Lehigh U.	255	3,407	3,390	3,375	176	32	2,825	245	0	0	0	97	
Sacred Heart U.	256	ne	2,342	3,372	1,426	58	690	656	57	244	116	125	
Southern Connecticut State U.	257	2,983	4,095	3,335	1,672	158	518	366	0	223	62	336	
Stevens Institute of Technology	258	1,575	1,738	3,327	390	0	975	272	0	0	0	1,690	
Texas A&M International U.	259	1,785	2,315	3,282	269	73	1,046	20	0	0	9	1,865	
Bryn Mawr C.	260	3,584	3,363	3,183	0	0	273	1,876	0	732	302	0	
U. Missouri, Saint Louis	261	3,068	2,154	3,077	198	18	1,773	76	0	460	0	552	
Clarkson U.	262	2,338	2,577	3,074	221	89	1,247	160	0	0	0	1,357	
California State U., Northridge	263	1,914	2,107	3,065	400	0	1,226	184	626	420	196	13	
Purdue U., Northwest	264	1,768	2,308	3,062	1,013	0	307	301	0	0	260	1,181	
California State U., Bakersfield	265	2,119	2,819	3,049	365	75	1,688	35	277	5	205	399	
Duquesne U.	266	3,565	2,915	2,935	798	1	1,025	69	449	0	33	560	
Northern Arizona U.	267	2,397	3,054	2,909	888	35	1,819	52	21	6	65	23	
Middle Tennessee State U.	268	7,900	2,919	2,890	379	75	321	1,137	0	0	869	109	
West Chester U. Pennsylvania	269	2,717	2,579	2,850	535	58	425	516	0	109	236	971	
CUNY, Baruch C.	270	934	1,626	2,801	1,259	51	30	222	81	636	14	508	
Fairfield U.	271	ne	2,033	2,795	1,292	16	278	972	1	96	135	5	
Dine C.	272	0	356	2,784	0	1,193	645	253	0	0	3	690	
Michigan Technological U.	273	3,104	3,294	2,774	1,650	0	223	676	0	0	225	0	
CUNY, Queens C.	274	407	776	2,731	9	348	797	928	0	0	508	141	
Augusta U.	275	2,187	2,963	2,721	785	160	497	0	0	0	468	811	
Suffolk U.	276	1,022	2,754	2,717	1,035	0	0	0	1,681	0	0	1	
Wesleyan U.	277	2,867	3,142	2,707	0	894	693	896	0	0	192	32	
Sul Ross State U.	278	1,615	2,037	2,701	0	0	1,838	0	0	0	0	863	
California State U., Long Beach	279	2,026	2,836	2,671	15	46	1,045	133	0	1,130	113	189	

Table 23. Higher education R&D expenditures at institutions in the standard form survey population in non-science and engineering fields, ranked by all FY 2024 non-S&E fields: FYs 2022–24 and by subfield for FY 2024

(Dollars in thousands)

Institution	Rank	2022	2023	2024																
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec								
U. Alaska, Fairbanks	280	1,856	1,535	2,658		1,297		253		1,050	0	0	25	0	33					
Texas Tech U., Health Sciences Center	281	1,613	1,566	2,645		0		0		2,437	0	0	0	0	208					
Colorado School of Mines	282	7,540	3,007	2,630		0		0		677	0	0	0	0	1,953					
La Sierra U.	283	2,165	2,405	2,591	i	155	i	1	i	1,308	i	503	i	0	106	i	518	i		
Kean U.	284	1,341	3,785	2,590		661		193		589	418	129	19	269		312				
U. Rochester	285	2,541	3,020	2,581		3		0		2,256	139	0	0	151		32				
St. Cloud State U.	286	1,510	2,010	2,578		0		1		2,560	6	0	0	3		8				
Pacific U.	287	1,414	4,071	2,570		0		0		1,880	235	0	0	0		455				
Texas A&M U.-Kingsville	288	1,593	1,451	2,554		0		0		557	49	0	0	0		1,948				
Texas Southern U.	289	1,544	1,315	2,499		0		0		90	0	0	0	0		2,409				
Winthrop U.	290	2,263	2,206	2,474		0		2		2,453	0	0	10	7		2				
Indiana U. Pennsylvania	291	2,243	2,441	2,433		796		274		386	813	0	0	3		161				
U. Tennessee, Chattanooga	292	2,294	2,401	2,429		2,190		2		178	52	0	0	0		7				
New Mexico Institute of Mining and Technology	293	2,373	2,702	2,376		245		0		0	0	0	0	0		2,131				
New Mexico State U.	294	1,408	2,003	2,331		103		15		710	157	0	5	28		1,313				
San Francisco State U.	295	2,558	2,352	2,325		364		317		1,213	57	0	14	149		211				
Rutgers, State U. New Jersey, Camden	296	1,288	1,771	2,316		0		0		88	7	224	0	1,481		516				
Marian U., Indianapolis	297	ne	581	2,278		127		37		1,637	353	0	17	0		107				
Wellesley C.	298	1,812	1,375	2,259		0		0		1,483	209	0	0	87		480				
Creighton U.	299	1,759	1,788	2,257	i	561	i	77	i	550	i	427	i	0	127	i	90	i	425	i
Texas Woman's U.	300	1,371	302	2,230		19		0		953	0	0	106	0		1,152				
CUNY, system office	301	40	1,978	2,220		0		0		318	0	0	0	0		1,902				
Clark Atlanta U.	302	12	207	2,195		0		0		2,195	0	0	0	0		0				
Claremont Graduate U.	303	5,562	4,564	2,157		633		0		1,524	0	0	0	0		0				
Hamilton C.	303	1,064	1,517	2,157		0		11		1,148	395	0	0	514		89				
Norfolk State U.	305	359	1,686	2,126		0		0		1,634	169	0	8	0		315				
Loyola U., Chicago	306	1,987	1,789	2,047		57		0		349	65	142	386	3		1,045				
U. Baltimore	307	3,761	3,111	2,037		0		0		1	0	12	0	0		2,024				
U. Illinois, Springfield	308	799	1,490	2,017		0		0		332	39	0	0	0		1,646				
South Carolina State U.	309	830	1,067	1,988		0		692		429	0	0	0	0		867				
SUNY, C. of Environmental Science and Forestry	310	1,281	1,364	1,960		11		0		1,626	0	0	297	0		26				
California State Polytechnic U., Humboldt	311	627	1,170	1,943		0		0		1,355	3	0	21	5		559				
U. Puerto Rico, Mayaguez	312	2,360	1,344	1,896		352		656		8	447	0	35	0		398				
Texas A&M U.-Commerce	313	1,381	2,287	1,890		167		31		606	37	0	12	53		984				
Erikson Institute	314	2,068	2,414	1,889		0		0		1,889	0	0	0	0		0				

Table 23. Higher education R&D expenditures at institutions in the standard form survey population in non-science and engineering fields, ranked by all FY 2024 non-S&E fields: FYs 2022–24 and by subfield for FY 2024

(Dollars in thousands)

Institution	Rank	2022	2023	2024											
				All non-S&E fields	Business management and business administration		Communication and communications technologies		Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec	
Saint Joseph's U.	315	1,732	1,660	1,835	440		0		658	9	0	0	0	728	
St. John Fisher U.	316	ne	1,589	1,824	943		31		219	523	0	0	0	108	
Trinity C., Hartford	317	147	1,491	1,818	0		0		0	1,485	0	0	193	140	
Bentley U.	318	286	1,179	1,775	956		2		261	235	117	0	40	164	
Williams C.	318	1,408	i 1,607	i 1,775	i 0	i	0	i	0	i 1,108	i 50	i 0	i 617	i 0	i
Texas Tech U., Health Sciences Center, El Paso	320	1,133	1,360	1,727	0		0		1,472	0	0	0	0	255	
Western Kentucky U.	320	617	840	1,727	149		1		389	538	0	537	107	6	
Seattle U.	322	816	1,906	1,724	271		222		557	119	474	0	7	74	
Pratt Institute	323	2,325	1,558	1,709	i 0	i	0	i	0	i 0	i 0	i 0	i 0	i 1,709	i
U. Central Oklahoma	324	1,685	1,991	1,700	46		0		656	72	7	0	59	860	
U. Ana G. Mendez, Gurabo	325	115	i 2,132	1,660	0		1,410		250	0	0	0	0	0	
California State U., San Marcos	326	854	789	1,653	0		0		1,442	131	0	0	0	80	
New England C. of Optometry	327	0	0	1,637	0		0		0	0	0	0	0	1,637	
Texas A&M U.-San Antonio	328	73	735	1,627	36		0		313	326	0	0	0	952	
Arcadia U.	329	ne	1,278	1,626	0		0		1,602	0	0	0	14	10	
Hartford International U. for Religion and Peace	330	ne	1,485	1,599	i 0	i	0	i	0	i 1,599	i 0	i 0	i 0	i 0	i
Swarthmore C.	331	1,342	1,621	1,562	0		0		113	441	0	0	974	34	
Reed C.	332	1,685	i 1,608	i 1,528	0		0		0	499	0	0	164	865	
California State U., Los Angeles	333	519	769	1,510	75		0		709	31	0	0	0	695	
U. of the Incarnate Word	334	275	267	1,507	22		0		0	0	0	0	0	1,485	
Pennsylvania State U., Harrisburg	335	1,095	2,136	1,506	212		0		1,188	0	0	106	0	0	
U. Nebraska, Omaha	336	1,366	1,793	1,502	59		6		479	92	0	3	16	847	
Elon U.	337	865	1,225	1,497	491		264		151	320	0	0	237	34	
Missouri U. of Science and Technology	338	2,115	651	1,477	64		24		163	32	0	0	0	1,194	
Lewis and Clark C.	339	1,448	1,508	1,457	0		0		67	21	1,359	0	10	0	
Santa Clara U.	340	659	774	1,448	0		5		1,092	314	1	0	32	4	
California State U., Dominguez Hills	341	1,299	763	1,444	96		30		803	413	0	0	34	68	
Seattle Pacific U.	342	ne	ne	1,417	464		3		38	912	0	0	0	0	
Hampton U.	343	413	371	1,409	620		0		209	0	0	0	0	580	
Citadel Military C. South Carolina	344	868	571	1,372	4		22		1,309	8	0	0	0	29	
Babson C.	345	1,270	i 1,430	i 1,350	i 418	i	0	i	0	i 605	i 17	i 1	i 309	i 0	i
Calvin U.	346	1,642	i 1,207	i 1,328	0		244		3	775	0	0	0	306	
Fort Lewis C.	347	573	906	1,312	0		0		81	483	0	0	0	748	
U. Washington, Bothell	348	4,831	1,536	1,305	0		0		1,082	0	0	0	0	223	
U. of the District of Columbia	349	1,304	3,286	1,288	127		0		0	0	0	0	0	1,161	

Table 23. Higher education R&D expenditures at institutions in the standard form survey population in non-science and engineering fields, ranked by all FY 2024 non-S&E fields: FYs 2022–24 and by subfield for FY 2024

(Dollars in thousands)

Institution	Rank	2022	2023	2024									
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec	
Arkansas State U., Jonesboro	350	73	114	1,287	554	203	67	175	0	0	145	143	
U. Colorado Colorado Springs	351	981	1,272	1,276	18	23	420	62	0	50	36	667	
U. North Carolina, Asheville	352	2,241	2,702	1,275	50	0	628	78	0	371	0	148	
U. Southern Maine	353	200	201	1,272	0	0	2	0	0	148	0	1,122	
Lipscomb U.	354	ne	1,427	1,268	390	0	647	137	0	0	10	84	
East Stroudsburg U. Pennsylvania	355	550	828	1,267	7	0	1,240	0	0	0	10	10	
Purdue U., Fort Wayne	356	771	1,006	1,260	0	0	111	142	0	0	65	942	
California State U., Chico	357	606	766	1,242	10	36	772	7	0	0	0	417	
Amherst C.	358	723	1,098	1,231	0	0	0	1,118	0	0	113	0	
MGH Institute of Health Professions	359	1,177	1,226	1,229	0	0	1,229	0	0	0	0	0	
John Carroll U.	360	ne	ne	1,227	0	0	680	8	0	0	0	539	
Whitman C.	361	169	176	1,225	0	0	0	940	0	0	285	0	
Smith C.	362	795	891	1,217	0	0	223	587	0	3	302	102	
Virginia State U.	363	2,174	1,766	1,195	0	0	892	0	0	0	0	303	
Franklin and Marshall C.	364	1,611	1,234	1,194	14	0	236	85	0	0	47	812	
Azusa Pacific U.	365	1,498	1,801	1,189	222	66	158	662	0	78	1	2	
U. Houston-Downtown	366	937	1,060	1,175	0	0	1,029	0	0	0	0	146	
South Dakota State U.	367	526	936	1,163	0	2	317	68	0	0	0	776	
U. South Carolina Upstate	368	ne	ne	1,141	154	0	201	24	0	0	29	733	
Central Michigan U.	369	1,101	1,363	1,138	212	28	204	12	0	0	7	675	
Appalachian State U.	370	888	1,088	1,081	373	0	214	154	0	113	0	227	
U. Michigan, Flint	371	ne	ne	1,046	122	0	116	74	0	23	31	680	
Southern Illinois U., Edwardsville	372	959	1,370	1,041	17	0	0	213	0	0	269	542	
C. Charleston	373	1,192	1,024	1,032	312	9	173	184	0	0	28	326	
U. Texas of the Permian Basin	374	1,203	1,208	1,026	36	6	805	179	0	0	0	0	
Stephen F. Austin State U.	375	777	851	1,024	14	10	317	26	0	200	154	303	
CUNY, Lehman C.	376	719	770	1,012	90	0	760	13	0	26	0	123	
U. Central Arkansas	377	1,057	992	995	30	0	880	34	0	0	2	49	
U. Massachusetts, Dartmouth	377	1,284	1,488	995	0	14	887	0	0	0	79	15	
U. North Carolina, Wilmington	379	2,419	606	981	88	0	670	0	0	0	68	155	
New Mexico Highlands U.	380	14	14	979	0	0	0	0	0	0	0	979	
Barnard C.	381	295	565	975	0	0	264	484	0	0	0	227	
Davidson C.	382	200	294	959	0	10	0	949	0	0	0	0	
Oakland U.	382	953	790	959	169	0	748	0	0	42	0	0	
U. Guam	384	773	573	945	0	0	945	0	0	0	0	0	

Table 23. Higher education R&D expenditures at institutions in the standard form survey population in non-science and engineering fields, ranked by all FY 2024 non-S&E fields: FYs 2022–24 and by subfield for FY 2024

(Dollars in thousands)

Institution	Rank	2022	2023	2024												
				All non-S&E fields	Business management and business administration		Communication and communications technologies		Education		Humanities		Law		Social work	
Colgate U.	385	952	939	943		0		0		47	780	0	0	116	0	
U. Wisconsin-Oshkosh	385	501	747	943		50		25		576	88	17	0	110	77	
U. Richmond	387	323	810	927		320		109		0	307	6	0	51	134	
Roger Williams U.	388	467	858	924		110		0		193	0	245	152	3	221	
U. Wisconsin-Superior	389	14	198	914		0		0		0	0	0	0	0	914	
Alabama A&M U.	390	386	798	905	i	124	i	32	i	363	75	0	70	29	212	i
U. North Georgia	391	783	910	903		82		0		744	77	0	0	0	0	
Seton Hall U.	392	4,535	1,396	891		0		0		891	0	0	0	0	0	
Marymount U.	393	303	735	876		220		0		485	79	0	0	0	92	
Drake U.	394	792	967	851		0		13		517	0	321	0	0	0	
Loyola U., Maryland	395	ne	ne	845		0		0		466	0	0	0	3	376	
U. Akron	396	494	747	823		120		21		0	118	158	21	129	256	
U. Washington, Tacoma	397	562	776	820		0		0		820	0	0	0	0	0	
U. Arkansas, Little Rock	398	796	1,460	819		4		0		543	110	162	0	0	0	
Manhattan C.	399	323	129	818		0		436		382	0	0	0	0	0	
Rhode Island School of Design	400	ne	ne	800		0		0		0	256	0	0	313	231	
U. Alaska, Anchorage	401	1,399	1,083	787		11		0		390	24	0	0	0	362	
Bowdoin C.	402	358	530	784		0		0		385	253	0	0	59	87	
Haverford C.	403	526	520	759	i	0	i	0	i	403	273	0	0	83	0	i
U. Nebraska, Kearney	404	813	748	740		0		430		111	109	0	1	9	80	
Coastal Carolina U.	405	769	851	732		220		0		152	283	0	0	77	0	
U. Minnesota, Duluth	406	425	582	721		195		32		92	20	0	51	52	279	
Pace U.	407	1,370	1,361	718		199		0		199	7	176	0	0	137	
Lamar U.	408	1,082	808	715		272		69		214	64	0	30	49	17	
U. of Mary Washington	408	806	670	715		414		0		11	255	0	0	35	0	
Air Force Institute of Technology	410	0	0	713		0		0		0	0	0	0	0	713	
Dillard U.	411	524	304	711		0		0		323	88	0	74	0	226	
U. Arkansas, Pine Bluff	412	0	482	707		0		0		0	256	0	426	0	25	
U. North Carolina, general administration	413	137	ne	703		0		0		0	0	0	0	0	703	
Southeastern Louisiana U.	414	707	638	699		604		18		1	0	0	0	76	0	
Andrews U.	415	ne	568	687		0		1		8	669	0	0	0	9	
Saginaw Valley State U.	416	546	606	686	i	59	i	13	i	449	51	106	0	8	0	i
Northeastern Illinois U.	417	561	455	683		0		0		683	0	0	0	0	0	
U. Michigan, Dearborn	418	414	592	662		150		0		39	95	0	0	0	378	
Willamette U.	419	945	724	640		61		4		0	108	282	0	0	185	

Table 23. Higher education R&D expenditures at institutions in the standard form survey population in non-science and engineering fields, ranked by all FY 2024 non-S&E fields: FYs 2022–24 and by subfield for FY 2024

(Dollars in thousands)

Institution	Rank	2022	2023	2024										
				All non-S&E fields	Business management and business administration		Communication and communications technologies		Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec
U. Houston-Clear Lake	420	88	147	638	4		0		149	11	0	0	0	474
Eastern Connecticut State U.	421	822	952	633	10		0		182	327	0	0	114	0
Trinity U.	422	581	800	607	53		50		23	450	0	0	31	0
West Texas A&M U.	422	694	570	607	0		0		19	0	0	0	0	588
Nevada State U.	424	0	404	597	0		0		597	0	0	0	0	0
Black Hills State U.	425	80	317	588	2		0		560	1	0	0	0	25
Pennsylvania State U., Behrend	426	479	547	578	126		0		330	110	0	0	12	0
U. Texas, Tyler	427	261	249	564	34		23		441	0	0	0	0	66
Furman U.	428	33	74	560	0		0		81	243	0	6	0	230
Colorado C.	429	2,119	797	551	0		4		38	389	0	0	120	0
Gallaudet U.	430	273	770	542	0		316		0	0	0	0	0	226
U. South Carolina, Beaufort	431	ne	174	541	0		1		0	72	0	0	0	468
Embry-Riddle Aeronautical U.	432	1,268	1,242	538	37		0		372	36	0	0	0	93
Troy U.	433	246	658	536	118		0		260	10	0	22	0	126
Austin Peay State U.	434	758	710	528	1		0		10	5	0	0	489	23
Middlebury C.	435	136	233	526	0		0		0	407	0	10	58	51
Bucknell U.	436	385	730	525	124		0		11	230	0	0	75	85
Carleton C.	437	687	395	i 518	i 0	i	0	i	0	i 281	i 0	i 0	i 237	i 0
Biola U.	438	619	633	507	0		0		0	507	0	0	0	0
California State U., San Bernardino	439	3,608	1,703	500	24		29		165	60	0	9	17	196
Indiana State U.	440	426	654	499	0		0		489	0	0	0	0	10
Pomona C.	441	262	386	493	0		0		0	349	0	0	144	0
Saint John's U.	442	406	i 463	i 487	i 27	i	11	i	158	i 175	i 3	i 0	i 53	i 60
Robert Morris U.	443	433	i 486	474	308		41		63	20	0	0	34	8
Christopher Newport U.	444	385	574	473	18		209		0	154	0	0	92	0
Grand Valley State U.	445	512	413	i 467	i 12	i	0	i	0	i 0	i 0	i 0	i 0	i 455
Mercer U.	446	149	584	460	77		0		121	0	0	0	0	262
C. of Saint Benedict	447	372	i 425	i 449	i 0	i	0	i	217	i 232	i 0	i 0	i 0	i 0
Claremont McKenna C.	448	348	442	443	0		0		0	443	0	0	0	0
CUNY, New York City C. of Technology	448	431	781	443	3		5		214	20	0	0	17	184
Auburn U., Montgomery	450	ne	ne	430	33		4		68	25	1	3	1	295
U. Maryland Center for Environmental Science	451	904	747	426	0		0		426	0	0	0	0	0
U. of St. Thomas (MN)	452	540	297	419	0		0		5	0	35	0	0	379
Western Carolina U.	452	505	532	419	0		0		103	0	0	265	0	51
Colby C.	454	449	508	404	0		0		5	297	0	0	55	47

Table 23. Higher education R&D expenditures at institutions in the standard form survey population in non-science and engineering fields, ranked by all FY 2024 non-S&E fields: FYs 2022–24 and by subfield for FY 2024

(Dollars in thousands)

Institution	Rank	2022	2023	2024												
				All non-S&E fields	Business management and business administration		Communication and communications technologies		Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec		
Radford U.	454	ne	528	404		31		25		223	59	0	4	8	54	
U. California, Office of the President	456	72	265	393		0		0		0	0	0	0	0	393	
SUNY, Geneseo	457	232	246	390		34		14		13	317	0	0	11	1	
Abilene Christian U.	458	237	241	357		13		0		0	163	0	55	51	75	
California Institute of Technology	458	30,663	279	357	i	0	i	0	i	0	357	i	0	i	0	i
California State U., Channel Islands	460	85	201	352		72		1		158	105	0	0	12	4	
Northern Michigan U.	461	288	392	351		75		0		2	267	0	4	3	0	
U. of the Virgin Islands	461	0	0	351		0		192		61	40	0	10	0	48	
Fisk U.	463	123	2	344		0		0		344	0	0	0	0	0	
Lafayette C.	464	256	213	343		0		0		0	168	0	0	109	66	
Mount Holyoke C.	464	244	506	343		4		16		0	15	0	0	130	178	
St. Edward's U.	466	1,479	0	334		52		15		9	33	0	3	106	116	
U. Hawaii, Maui C.	467	ne	295	332		0		0		332	0	0	0	0	0	
Occidental C.	468	171	i	250	i	330		0		0	234	0	0	96	0	
Hobart and William Smith Colleges	469	144		117		326		14		39	14	158	0	0	92	9
Morehouse C.	470	608		379		319		249		0	0	0	0	2	68	
SUNY, Oswego	470	24		110		319		8		11	0	0	0	36	253	
U. Hawaii, Hilo	472	46		14		309		78		0	229	0	0	0	2	
California State U., Stanislaus	473	83		76		305		45		0	160	72	0	1	12	15
St. Bonaventure U.	474	ne	ne	302		1		0		95	205	0	0	0	1	
Vassar C.	475	366		170		287		0		0	211	0	0	67	0	
U. North Texas, Dallas	476	ne	ne	281		0		0		0	0	162	0	0	119	
Macalester C.	477	268		260		280		0		0	147	0	0	133	0	
U. Wisconsin-La Crosse	478	164		360		276		43		3	0	90	0	0	8	132
St. John's U., New York	479	347		237		274		0		8	58	23	18	0	167	
Western Illinois U.	480	145		260		273	i	0	i	0	165	i	0	i	0	i
Dickinson C.	481	ne	ne	271		13		0		7	181	0	0	70	0	
Spelman C.	482	277		319		255		0		0	0	0	0	0	255	
CUNY, C. Staten Island	483	347		820		250		20		3	62	52	0	0	24	89
Johnson C. Smith U.	484	2,291		1,153		249		0		0	42	0	0	0	207	
California Lutheran U.	485	0	ne	247		0		0		4	140	55	0	0	48	0
Eastern Kentucky U.	486	ne	250	245		0		0		0	90	1	0	58	0	96
Midwestern State U.	487	ne	ne	244		104		0		0	20	29	0	0	42	49
U. Northern Iowa	488	43		228		243		0		0	186	5	0	45	0	7
California State U., Fresno	489	541		602		239		0		0	239	0	0	0	0	0



Table 23. Higher education R&D expenditures at institutions in the standard form survey population in non-science and engineering fields, ranked by all FY 2024 non-S&E fields: FYs 2022–24 and by subfield for FY 2024

(Dollars in thousands)

Institution	Rank	2022	2023	2024												
				All non-S&E fields	Business management and business administration		Communication and communications technologies		Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec		
Minnesota State U., Mankato	489	40	344	239	17		0		22	0	0	0	6	194		
SUNY, Polytechnic Institute	491	161	180	225	0		0		0	225	0	0	0	0		
Bates C.	492	91	82	223	0		0		46	102	0	0	75	0		
Idaho State U.	492	254	293	223	2		0		138	21	0	0	26	36		
Indiana U., South Bend	494	ne	520	221	0		0		2	3	0	1	17	198		
U. New Haven	494	147	138	221	64		7		150	0	0	0	0	0		
Illinois Institute of Technology	496	81	187	216	51		0		58	0	0	0	0	107		
Sonoma State U.	497	318	640	207	0		5		56	124	0	0	10	12		
U. Wisconsin-Green Bay	498	197	195	205	i	40	i	8	64	i	28	i	0	52	i	
Denison U.	499	ne	ne	203	i	0	i	16	0	i	93	i	0	26	68	i
U. South Carolina, Aiken	500	639	1,010	202	95		0		2	85	0	0	0	20		
Wheaton C., Wheaton	500	ne	270	202	0		0		47	155	0	0	0	0		
C. Wooster	502	274	193	201	0		25		0	144	0	0	23	9		
Skidmore C.	503	129	152	199	68		0		14	0	0	0	47	70		
Liberty U.	504	ne	215	190	0		30		0	47	11	0	8	94		
New York Institute of Technology	505	78	12	187	2		0		0	14	0	0	0	171		
U. Scranton	505	ne	202	187	30		0		0	157	0	0	0	0		
U. Wisconsin-River Falls	505	ne	232	187	0		0		12	0	0	0	0	175		
Franklin W. Olin C. of Engineering	508	174	138	182	0		0		182	0	0	0	0	0		
California State U., Monterey Bay	509	61	129	181	0		0		29	0	0	131	8	13		
Weber State U.	510	ne	ne	180	0		0		180	0	0	0	0	0		
U. Wisconsin-Eau Claire	511	34	66	176	28		0		26	30	0	49	0	43		
Union C., Schenectady	512	170	217	174	0		0		0	123	0	0	51	0		
United Tribes Technical C.	513	ne	216	173	0		50		101	22	0	0	0	0		
U.S. Air Force Academy	514	2	126	170	103		0		0	6	0	0	0	61		
CUNY, Graduate School of Public Health and Health Policy	515	0	0	167	63		0		104	0	0	0	0	0		
Thomas Jefferson U.	515	6	21	167	0		0		0	33	70	0	0	64		
Florida Institute of Technology	517	778	241	165	0		0		0	0	0	0	0	165		
Gettysburg C.	518	ne	176	162	1		0		0	92	0	0	59	10		
Keene State C.	519	ne	ne	161	18		0		25	0	0	0	0	118		
Clark U.	520	243	246	159	0		0		20	0	0	0	0	139		
U.S. Military Academy	521	402	246	155	0		0		0	105	0	0	0	50		
Elizabeth City State U.	522	544	641	154	0		0		140	14	0	0	0	0		
Lincoln Memorial U.	523	ne	19	147	0		0		0	5	0	3	0	139		
Oberlin C.	524	ne	197	142	0		2		0	62	0	0	55	23		

Table 23. Higher education R&D expenditures at institutions in the standard form survey population in non-science and engineering fields, ranked by all FY 2024 non-S&E fields: FYs 2022–24 and by subfield for FY 2024

(Dollars in thousands)

Institution	Rank	2022	2023	2024											
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec			
Fayetteville State U.	525	1,461	102	i 136	135	0	0	0	0	0	0	0	1		
U. Detroit Mercy	526	94	156	134	5	1	0	110	0	0	0	0	18		
Des Moines U.	527	227	114	118	0	0	19	0	17	0	0	0	82		
Kentucky State U.	528	4	0	113	0	0	0	0	0	0	0	0	113		
Albany C. of Pharmacy and Health Sciences	529	0	173	i 109	0	0	0	0	0	0	0	0	109		
Central Washington U.	529	42	34	109	67	0	36	0	6	0	0	0	0		
U. Alaska, Southeast	531	0	99	108	0	0	108	0	0	0	0	0	0		
Alaska Pacific U.	532	39	81	102	0	0	52	0	0	0	0	0	50		
Northern Kentucky U.	533	111	353	92	18	0	1	16	6	12	39	0	0		
Harvey Mudd C.	534	55	49	90	0	0	0	90	0	0	0	0	0		
Monmouth U.	535	10	104	89	9	0	47	18	0	0	0	0	15		
New C. Florida	536	ne	73	88	0	0	0	78	0	0	10	0	0		
C. New Jersey	537	163	63	86	0	1	62	8	0	0	15	0	0		
Touro U., New York <sup>e</sup>	537	ne	5	86	0	0	7	0	0	0	0	0	79		
Southern Utah U.	539	ne	ne	84	0	0	0	0	0	0	0	0	84		
Missouri State U.	540	6	0	83	0	0	0	0	0	0	0	0	83		
Eckerd C.	541	ne	ne	80	0	0	80	0	0	0	0	0	0		
U. Minnesota, Rochester	542	ne	ne	75	0	0	48	0	0	0	0	0	27		
Merrimack C.	543	ne	95	74	15	27	32	0	0	0	0	0	0		
Stockton U.	544	0	0	72	26	0	0	0	0	46	0	0	0		
Bryant U.	545	ne	101	71	49	0	0	19	3	0	0	0	0		
Butler U.	546	198	126	70	0	29	0	9	0	32	0	0	0		
Langston U.	547	233	174	69	0	0	0	0	0	15	0	54	0		
St. Olaf C.	547	ne	177	69	0	0	6	37	0	0	4	22	0		
Ferris State U.	549	ne	64	64	0	0	64	0	0	0	0	0	0		
U. Virginia's C. Wise	549	1,721	680	64	0	0	62	0	0	0	0	2	0		
Kenyon C.	551	69	46	59	0	0	0	50	0	0	9	0	0		
U. Puget Sound	551	62	116	59	0	0	0	46	0	0	6	7	0		
High Point U.	553	ne	ne	58	i 15	i 3	i 18	i 12	i 8	i 0	i 2	i 0	i 0		
Virginia Military Institute	554	60	127	56	0	0	0	56	0	0	0	0	0		
Teachers C., Columbia U.	555	57	233	54	0	0	0	0	0	0	0	54	0		
CUNY, York C.	556	107	128	51	3	0	5	13	0	0	14	16	0		
Connecticut C.	557	192	488	49	0	0	0	2	0	10	0	37	0		
Hope C.	558	859	1,828	48	4	0	1	8	0	0	35	0	0		
Pennsylvania State U., Altoona	559	ne	62	46	0	0	12	34	0	0	0	0	0		

Table 23. Higher education R&D expenditures at institutions in the standard form survey population in non-science and engineering fields, ranked by all FY 2024 non-S&E fields: FYs 2022–24 and by subfield for FY 2024

(Dollars in thousands)

Institution	Rank	2022	2023	2024										
				All non-S&E fields	Business management and business administration		Communication and communications technologies		Education	Humanities	Law	Social work	Visual and performing arts	Non-S&E nec
Wright State U.	559	223	80	46	3		0		40	0	0	0	0	3
U. Hartford	561	35	49	43	3		3		8	14	0	0	15	0
Berry C.	562	ne	ne	41	0		0		21	13	0	0	7	0
Plymouth State U.	562	17	ne	41	9		0		8	0	0	0	0	24
Juniata C.	564	ne	ne	38	0		0		0	0	0	0	0	38
U. New England	565	23	16	30	0		0		0	30	0	0	0	0
U. Maryland, Eastern Shore	566	0	0	20	0		0		0	0	0	0	0	20
Carthage C.	567	ne	ne	17	0		0		17	0	0	0	0	0
U. Wisconsin-Stevens Point	567	11	0	17	0		1		0	0	0	0	16	0
Albany State U.	569	ne	12	16	0		0		16	0	0	0	0	0
Northeast Ohio Medical U.	569	0	21	16	0		0		2	3	0	11	0	0
Norwich U.	569	ne	210	16	0		0		0	0	0	0	0	16
Florida Polytechnic U.	572	159	258	15	0		0		15	0	0	0	0	0
Utah Valley U.	572	45	6	15	0		0		2	6	0	0	0	7
Eastern Washington U.	574	7	0	13	0		0		1	0	0	0	8	4
SUNY, C. Brockport	574	53	30	13	0		5		0	0	0	8	0	0
CUNY, Advanced Science Research Center	576	8	35	9	0		0		0	0	0	0	0	9
Murray State U.	576	26	24	9	0		0		0	6	0	0	0	3
Milwaukee School of Engineering	578	0	14	8	0		0		0	0	0	0	8	0
Savannah State U.	578	0	0	8	0		0		8	0	0	0	0	0
U. Louisiana, Monroe	578	41	30	8	0		0		0	0	0	0	0	8
Valparaiso U.	581	ne	ne	7	0		0		0	7	0	0	0	0
Youngstown State U.	581	83	7	7	0		0		0	0	0	0	7	0
Hawaii Pacific U.	583	828	3	5	0		0		0	0	0	5	0	0
Fort Valley State U.	584	0	0	4	0		0		4	0	0	0	0	0
U. of the Pacific	584	3	0	4	0		0		0	0	0	0	0	4
Oklahoma State U., Center for Health Sciences	586	61	19	3	3		0		0	0	0	0	0	0
Bowie State U.	587	239	635	2	0		0		0	0	0	0	0	2
Lincoln U., Jefferson City	588	0	1	1	0		0		0	0	0	0	0	1
Morehead State U.	588	0	0	1	0		0		1	0	0	0	0	0
All other surveyed institutions	-	65,686	6,900	0	0		0		0	0	0	0	0	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

nec = not elsewhere classified; S&E = science and engineering.

- <sup>a</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.
- <sup>b</sup> The University of Oklahoma includes expenditures from the University of Oklahoma, Tulsa and University of Oklahoma, Norman and Health Science Center campuses. Due to a reorganization, the campuses began reporting as one unit in FY 2024.
- <sup>c</sup> The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.
- <sup>d</sup> Johns Hopkins University includes the Applied Physics Laboratory (APL), with zero imputed for total non-S&E R&D expenditures in FY 2024. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.
- <sup>e</sup> Touro University, New York includes the Lovelace Biomedical Research Institute. In FY 2023, the Lovelace Biomedical Research Institute joined the Touro University System.

**Note(s):**  
Institutions reporting zero expenditures in ranked total for FY 2024 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 5](#).

**Source(s):**  
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

Table 24. Federally financed higher education R&D expenditures at institutions in the standard form survey population, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All institutions	-	10,173,898	1,150,806	338,398	1,850,594	201,515	809,857	62,649	95,288	99,555	5,450,483	114,753
Johns Hopkins U. <sup>a</sup>	1	1,835,055	227,842	12,756	70,480	117,015	237,937	491	5,116	43,435	1,119,983	0
Georgia Institute of Technology	2	921,587	168,411	1,274	6,127	244	5,076	1,726	116	0	730,676	7,937
Uniformed Services U. of the Health Sciences	3	469,911	0	0	452,307	0	0	17,604	0	0	0	0
Pennsylvania State U., University Park and Hershey Medical Center	4	397,029	63,197	8,650	5,376	16,774	26,195	1,223	743	0	271,688	3,183
U. Texas, Austin	5	248,592	43,497	12	4,175	1,073	42,005	333	271	0	155,072	2,154
U. Dayton	6	228,987	33,000	0	132	0	237	0	0	0	193,439	2,179
Utah State U.	7	205,544	0	0	1,100	15	217	0	0	0	203,618	594
U. Maryland <sup>b</sup>	8	180,635	24,953	449	39,527	1,020	19,422	372	19,217	16,147	57,918	1,610
U. California, San Diego	9	143,553	1,159	71,031	21,911	166	7,066	2,993	634	0	38,203	390
U. Washington, Seattle	10	143,424	7,489	49,959	35,493	1,559	4,611	405	1,938	0	41,969	1
Wichita State U.	11	142,664	0	0	69	0	0	0	0	0	140,537	2,058
U. Southern California	12	137,106	93,529	0	9,027	131	4,407	304	829	0	28,839	40
Massachusetts Institute of Technology	13	135,137	33,491	2,159	5,812	2,023	19,039	0	358	464	70,206	1,585
Purdue U., West Lafayette	14	123,426	5,426	99	3,720	342	5,237	45	26	0	100,909	7,622
Carnegie Mellon U.	15	107,223	60,207	0	289	1,629	1,256	1,243	295	0	42,304	0
Texas A&M U., College Station and Health Science Center	16	99,845	5,142	897	10,813	426	4,222	102	1,469	19	75,286	1,469
Stanford U.	17	99,397	5,705	1,673	30,550	1,443	20,054	412	2,197	0	36,990	373
U. Michigan, Ann Arbor	18	89,228	43	414	15,048	1,345	5,092	0	3,723	0	63,563	0
U. Pittsburgh, Pittsburgh	19	87,686	3,076	15	65,519	90	6,993	0	0	260	11,705	28
Virginia Polytechnic Institute and State U.	20	79,525	11,135	4	3,087	2,520	2,015	65	32	0	43,305	17,362
U. Illinois, Urbana-Champaign	21	78,009	10,418	261	6,272	73	7,351	173	617	55	52,359	430
Ohio State U.	22	74,860	1,367	1,293	22,767	471	2,783	371	297	4,867	38,545	2,099
Columbia U. in the City of New York	23	71,479	11,020	837	25,790	0	5,186	0	226	0	28,420	0
U. California, Los Angeles	24	69,408	3,472	1,296	26,990	1,803	7,878	273	2,959	630	22,541	1,566
SUNY, U. Buffalo	25	69,063	422	0	9,930	207	1,750	153	0	0	55,652	949
Cornell U.	26	68,999	6,648	79	15,198	262	17,708	92	94	0	28,529	389
Montana State U., Bozeman	27	66,304	571	38	515	0	8,368	77	0	0	48,507	8,228
George Mason U.	28	65,977	10,483	2,395	2,882	371	996	689	492	0	46,882	787
Northwestern U.	29	64,812	1,485	175	29,102	0	9,040	211	140	4,466	19,488	705
U. Hawaii, Manoa	30	63,110	22,210	10,101	9,728	0	6,188	0	645	43	14,195	0
U. Pennsylvania	31	63,045	7,168	9	22,335	570	5,598	338	5,933	0	21,083	11
U. Alabama, Huntsville	32	60,695	26,941	888	5	0	187	0	884	0	31,649	141
Naval Postgraduate School	33	58,810	7,315	6,160	100	1,831	2,723	104	1,885	1,071	33,603	4,018
Northeastern U.	34	58,404	4,340	47	401	0	1,952	558	0	0	50,594	512
U. Wisconsin-Madison	35	57,946	3,741	2,350	17,576	806	4,685	149	0	2,602	25,461	576

Table 24. Federally financed higher education R&D expenditures at institutions in the standard form survey population, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Florida	36	55,512	4,469	132	20,895	151	1,688	428	2,059	0	25,387	303
Harvard U.	37	53,130	1,511	12	13,423	284	22,133	519	5,045	0	10,203	0
Duke U.	38	52,279	303	1,792	26,430	707	1,933	37	695	0	20,382	0
Arizona State U.	39	52,203	11,995	606	5,518	545	1,627	813	2,509	149	26,757	1,684
U.S. Air Force Academy	40	51,623	1,313	0	9,313	12	3,859	50	94	891	36,012	79
U. California, San Francisco	41	51,043	0	0	47,663	0	3,380	0	0	0	0	0
North Carolina State U.	42	49,387	2,344	457	1,967	447	2,809	55	351	9,011	31,530	416
SUNY, U. Albany	43	49,218	105	516	246	0	126	40	418	0	47,767	0
U. Nebraska, Lincoln and Medical Center	44	47,719	384	113	28,192	27	2,871	27	169	0	15,504	432
U. California, Berkeley	45	47,172	19	0	2,512	1,223	9,416	209	462	1,419	31,912	0
U. Colorado Boulder	46	46,717	3,884	2,709	1,530	1,549	14,610	28	151	0	22,043	213
U. California, Santa Barbara	47	46,574	4,367	489	144	425	8,624	414	182	151	31,778	0
U. Minnesota, Twin Cities	48	45,551	872	0	21,097	377	1,599	16	154	5	21,427	4
U. Arizona	49	43,955	2,052	602	10,474	1	5,055	123	112	29	25,487	20
Vanderbilt U. and Vanderbilt U. Medical Center	50	43,771	6,807	134	23,285	96	0	0	0	0	13,266	183
Stevens Institute of Technology	51	43,054	1,142	955	0	258	173	0	0	0	40,526	0
Air Force Institute of Technology	52	41,303	5,349	1,139	0	12,307	5,282	0	0	0	16,713	513
U. Central Florida	53	40,368	8,562	0	1,496	61	16,449	1,460	310	217	11,764	49
Yale U.	54	40,359	1,692	50	18,404	17	13,756	256	0	0	6,184	0
Woods Hole Oceanographic Institution	55	40,023	0	i12,771	0	0	0	0	0	0	27,252	0
U. Alaska, Fairbanks	56	38,347	0	26,820	617	0	3,140	0	0	1,784	5,958	28
U. Delaware	57	35,988	854	3,594	2,213	615	5,046	522	5	0	23,035	104
U. Virginia, Charlottesville	58	32,458	3,208	0	5,362	81	1,226	10	304	0	19,791	2,476
U. Notre Dame	59	32,397	1,639	0	4,886	164	2,066	0	0	1,923	21,719	0
California Institute of Technology	60	31,906	4,476	150	2,494	0	4,666	255	0	0	19,865	0
U. New Mexico	61	31,799	484	204	7,338	0	2,423	133	545	0	20,672	0
New Mexico Institute of Mining and Technology	62	30,862	20,770	0	0	0	4,214	0	0	0	5,878	0
U. North Carolina, Chapel Hill	63	29,969	2,221	913	20,604	97	4,960	34	336	0	727	77
U. Tennessee, Knoxville	64	29,363	0	163	6,354	141	818	0	0	637	20,968	282
U. California, Davis	65	29,362	1,244	74	13,829	152	1,831	0	790	0	11,424	18
U. Miami	66	28,872	0	13,195	14,129	0	366	801	0	0	381	0
U. Chicago	67	28,264	4,369	156	4,480	907	6,039	889	287	0	11,137	0
Auburn U., Auburn	68	27,861	163	0	2,696	60	163	29	3	68	24,058	621
Clemson U.	69	27,686	1,545	0	659	177	566	0	20	0	24,719	0
Rice U.	70	26,602	1,428	12	1,178	413	4,785	1,108	119	0	17,399	160
U. Arkansas, Fayetteville	71	26,201	978	93	443	0	3,671	555	0	0	18,712	1,749
Mercer U.	72	26,006	0	0	0	0	0	0	0	0	26,006	0

Table 24. Federally financed higher education R&D expenditures at institutions in the standard form survey population, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Maine	73	25,934	0	554	137	0	0	0	0	0	25,224	19
Indiana U., Bloomington	74	25,875	2,733	135	13,843	183	460	286	183	0	5,665	2,387
U. Utah	75	25,504	0	909	15,730	189	1,953	595	261	0	5,579	288
New York U.	76	25,400	5,038	0	10,023	1,149	3,509	1,088	0	0	4,108	485
New Mexico State U.	77	25,342	268	0	6,824	115	895	0	1	0	17,239	0
Princeton U.	78	25,152	2,084	243	1,184	1,003	2,983	306	1,029	0	16,320	0
Washington U., Saint Louis	79	24,734	575	19	18,092	0	1,285	1,096	9	0	3,658	0
Michigan State U.	80	24,202	1,593	219	3,822	248	9,579	322	184	108	7,208	919
Mississippi State U.	81	24,188	6,280	102	1,018	0	381	205	2,918	0	13,284	0
Icahn School of Medicine at Mount Sinai	82	24,094	0	0	24,094	0	0	0	0	0	0	0
U. Connecticut	83	24,074	182	7	3,446	3	1,793	0	0	0	18,643	0
U. South Florida	84	23,685	2,145	8,113	2,366	60	190	247	19	14	10,318	213
U. Oklahoma <sup>C</sup>	85	23,461	183	919	3,802	14	1,203	0	334	0	16,942	64
Florida State U.	86	23,343	134	1,647	856	408	388	354	332	0	19,224	0
Oregon State U.	87	22,891	0	3,886	3,136	0	303	38	78	0	15,442	8
Boston U.	88	22,813	3,198	0	6,875	168	479	820	0	0	11,219	54
Florida International U.	89	22,358	1,582	440	1,969	0	5,874	0	2,284	0	10,139	70
U. California, Irvine	90	22,162	2,830	0	6,370	667	430	343	0	0	11,522	0
U. South Carolina, Columbia	91	21,600	820	152	1,033	115	95	13	458	0	18,872	42
Rutgers, State U. New Jersey, New Brunswick	92	21,569	232	1,194	8,139	608	1,555	0	270	0	9,571	0
U. Texas M. D. Anderson Cancer Center	93	21,074	0	0	20,536	0	275	0	263	0	0	0
Michigan Technological U.	94	20,088	5,585	3,853	33	0	215	4	0	0	10,398	0
Brown U.	95	20,000	2,733	369	1,658	4,154	220	0	2	120	10,647	97
U. Texas, Dallas	96	19,997	2,243	0	1,849	30	2,602	664	0	0	12,609	0
U. Alabama, Birmingham	97	19,613	37	0	14,467	0	140	1,472	0	0	3,497	0
U. Massachusetts, Lowell	98	19,506	1,649	0	420	0	6,503	0	346	0	10,345	243
U. Cincinnati	99	19,480	0	157	13,132	0	8	0	162	0	5,803	218
U.S. Military Academy	100	19,294	2,344	285	539	2,281	1,696	81	2,824	0	9,139	105
U. North Dakota	101	19,128	1,656	317	100	0	243	190	0	0	16,016	606
U. Texas Medical Branch	102	19,080	0	0	19,080	0	0	0	0	0	0	0
Case Western Reserve U.	103	18,230	140	0	6,677	0	2,836	349	0	0	8,228	0
Emory U.	104	17,859	0	0	12,215	44	2,533	0	0	0	2,943	124
U. Texas, El Paso	105	17,331	213	227	307	0	259	0	0	0	16,325	0
Baylor C. of Medicine	106	16,982	0	0	16,982	0	0	0	0	0	0	0
U. Texas Southwestern Medical Center	107	16,470	0	0	16,470	0	0	0	0	0	0	0
Colorado State U., Fort Collins	108	16,285	996	2,430	4,858	782	1,516	131	0	564	5,008	0



Table 24. Federally financed higher education R&D expenditures at institutions in the standard form survey population, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Virginia Commonwealth U.	109	16,085	190	0	11,387	24	294	55	116	0	3,945	74
U. North Texas, Denton	110	15,827	3,812	0	35	94	327	0	0	0	11,450	109
Iowa State U.	111	15,530	764	0	687	169	715	0	0	0	13,043	152
U. Rochester	112	15,513	422	0	3,818	0	7,939	0	58	639	2,637	0
SUNY, Stony Brook U.	113	15,339	2,231	601	1,529	237	1,554	0	108	111	8,968	0
U. Illinois, Chicago	114	15,101	419	0	6,255	0	777	0	720	0	4,816	2,114
U. Colorado Anschutz Medical Campus	115	14,999	0	0	14,999	0	0	0	0	0	0	0
U. Kansas	116	14,968	1,246	821	3,552	51	53	1,129	43	0	7,407	666
U. Kentucky	117	14,728	81	17	6,826	0	175	0	0	0	7,032	597
U. Missouri, Columbia	118	14,563	4,115	235	2,572	223	2,712	343	0	0	4,285	78
Northern Arizona U.	119	14,525	5,892	0	5,682	0	0	108	107	0	2,736	0
U. Iowa	120	14,524	283	0	4,972	0	1,224	0	0	0	7,641	404
Drexel U.	121	14,506	1,457	0	1,480	43	0	13	0	0	11,163	350
Tufts U.	122	14,230	990	0	1,782	1,214	182	3,298	27	126	6,422	189
Georgetown U.	123	14,182	445	0	13,290	109	61	0	277	0	0	0
U. Hawaii, system office	124	13,910	295	13,615	0	0	0	0	0	0	0	0
U. Massachusetts, Amherst	125	13,862	2,971	0	906	252	421	0	0	0	9,306	6
George Washington U.	126	13,462	661	0	2,922	0	979	453	736	16	7,654	41
Temple U.	127	13,206	1,326	0	6,724	0	3,391	0	63	0	1,507	195
U. Texas, Arlington	128	12,603	280	0	0	82	346	396	0	0	11,499	0
U. Southern Mississippi	129	12,305	0	4,950	898	0	5,215	0	37	0	1,158	47
Worcester Polytechnic Institute	130	12,264	453	0	8	421	968	0	0	0	10,367	47
Rensselaer Polytechnic Institute	131	12,252	2,943	0	0	131	144	3,078	0	0	5,677	279
Dartmouth C. and Dartmouth Hitchcock Medical Center	132	12,111	1,127	13	2,772	2,856	1,233	415	0	0	3,695	0
Missouri State U.	133	12,033	0	0	29	0	0	0	0	0	12,004	0
U. Alabama, Tuscaloosa	134	11,900	149	190	48	0	1,099	52	497	0	9,769	96
U. California, Santa Cruz	135	11,749	654	3,238	569	354	957	0	0	941	5,036	0
U. California, Riverside	136	11,643	1,090	20	2,168	8	1,945	59	0	0	6,353	0
Colorado School of Mines	137	11,590	1,739	193	17	0	756	14	2	12	8,857	0
U. Rhode Island	138	11,540	4	1,447	402	0	908	0	0	0	8,175	604
New Jersey Institute of Technology	139	10,774	460	0	62	282	875	0	0	0	9,046	49
North Dakota State U.	140	10,649	886	21	660	0	5,185	0	0	0	3,705	192
Oklahoma State U., Stillwater	141	10,353	61	0	451	2	14	0	0	0	9,643	182
Montana Technological U.	142	10,268	0	2,338	0	0	0	0	0	0	7,930	0
Oregon Health and Science U.	143	10,174	0	0	9,962	0	0	0	0	0	212	0
U. Missouri, Kansas City	144	10,068	354	0	212	0	406	0	0	0	9,096	0
Washington State U.	145	10,033	959	498	1,997	0	2,201	157	114	0	4,107	0

Table 24. Federally financed higher education R&D expenditures at institutions in the standard form survey population, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. New Hampshire	146	9,958	0	7,162	623	0	0	100	0	0	1,972	101
U. Texas Health Science Center, Houston	146	9,958	0	0	9,958	0	0	0	0	0	0	0
Texas Tech U.	148	9,937	11	0	754	41	412	321	0	0	8,308	90
U. Texas Health Science Center, San Antonio	149	9,901	0	0	9,901	0	0	0	0	0	0	0
Albert Einstein C. of Medicine	150	9,821	0	0	9,821	0	0	0	0	0	0	0
U. Georgia	151	9,689	1,094	205	3,039	25	563	0	1,682	0	1,756	1,325
Lehigh U.	152	9,569	242	317	0	224	0	0	0	0	8,786	0
Wake Forest U.	153	9,520	0	0	9,308	0	212	0	0	0	0	0
Louisiana State U., Baton Rouge	154	9,184	754	2,366	1,493	374	366	0	0	0	2,893	938
California State U., Long Beach	155	9,173	0	0	9,032	0	0	0	0	0	141	0
Missouri U. of Science and Technology	156	9,135	180	0	205	0	186	0	0	0	8,564	0
U.S. Naval Academy	157	8,914	654	494	0	528	1,577	0	132	0	5,529	0
U. Nevada, Reno	158	8,307	696	34	3,975	0	676	157	0	0	2,769	0
U. Houston	159	8,082	671	0	461	1	907	840	0	0	5,202	0
U. Toledo	160	7,959	0	0	836	0	4,639	0	0	0	1,856	628
Boston C.	161	7,898	400	5,438	0	0	2,060	0	0	0	0	0
Old Dominion U.	162	7,783	532	0	323	137	0	49	40	0	6,511	191
Rochester Institute of Technology	163	7,648	649	0	0	0	2,039	0	0	0	4,950	10
Touro U., New York	164	7,571	0	0	7,571	0	0	0	0	0	0	0
San Diego State U.	165	7,449	251	638	2,789	376	629	253	39	0	2,442	32
Wayne State U.	166	7,441	285	0	4,738	0	590	225	0	0	1,441	162
Rowan U.	167	7,432	175	0	200	69	2	0	0	0	6,986	0
U. Maryland, Baltimore County	168	7,372	2,983	125	331	0	1,131	0	0	0	2,367	435
U. Mississippi	169	7,271	0	0	637	0	3,581	0	0	0	3,048	5
Medical C. Wisconsin	170	6,981	0	0	5,836	0	0	0	0	0	1,145	0
Wright State U.	171	6,969	3,440	0	649	0	435	362	0	56	2,027	0
U. Texas, San Antonio	172	6,866	1,479	1,061	825	0	765	202	4	0	2,445	85
U. Montana, Missoula	173	6,747	138	3	5,111	0	44	0	369	0	0	1,082
North Carolina A&T State U.	174	6,663	1,930	0	18	131	415	0	1,011	51	3,107	0
Florida Atlantic U.	175	6,589	5	40	1,382	236	183	21	0	0	4,718	4
U. Massachusetts, Medical School	176	6,472	0	0	6,472	0	0	0	0	0	0	0
U. Louisville	177	6,278	22	0	4,652	0	0	0	0	872	336	396
Morgan State U.	178	6,172	320	0	0	134	1,700	0	0	0	1,512	2,506
U. Tulsa	179	5,995	5,111	0	0	0	26	5	0	0	853	0
U. South Alabama	180	5,888	2,066	0	1,066	0	266	0	0	0	2,460	30
Naval War C.	181	5,868	0	0	0	0	0	0	820	0	0	5,048
CUNY, Advanced Science Research Center	182	5,858	0	0	0	0	5,767	0	0	0	91	0

Table 24. Federally financed higher education R&D expenditures at institutions in the standard form survey population, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Massachusetts, Dartmouth	183	5,714	269	3,437	68	107	12	0	0	0	1,821	0
U. Memphis	184	5,558	673	0	388	0	0	42	0	0	4,034	421
Marshall U.	185	5,482	461	0	741	0	0	0	0	0	3,410	870
SUNY, Binghamton U.	186	5,183	339	1	433	41	487	3	162	0	3,598	119
U. Vermont	187	5,110	591	0	2,172	0	1	0	0	0	2,202	144
Tulane U.	188	5,098	0	168	4,231	3	696	0	0	0	0	0
Thomas Jefferson U.	189	4,901	0	0	4,901	0	0	0	0	0	0	0
SUNY, Upstate Medical U.	190	4,747	0	0	4,747	0	0	0	0	0	0	0
South Dakota School of Mines and Technology	191	4,716	66	25	0	0	259	0	0	0	4,366	0
West Virginia U.	192	4,558	0	1,381	851	0	477	0	197	0	1,418	234
Boise State U.	193	4,499	308	508	0	215	182	0	117	0	2,948	221
Syracuse U.	194	4,451	235	0	487	0	1,519	0	15	0	1,200	995
Howard U.	195	4,406	1,590	0	93	53	287	96	0	0	2,125	162
U. West Florida	196	4,374	2,360	0	0	0	0	0	0	0	362	1,652
Nova Southeastern U.	197	4,344	191	1,606	2,547	0	0	0	0	0	0	0
Brigham Young U., Provo	198	4,254	261	0	108	0	959	0	0	0	2,707	219
Desert Research Institute	199	4,223	0	4,223	0	0	0	0	0	0	0	0
Texas State U.	200	3,982	0	83	1,690	75	596	0	980	0	519	39
Southern Methodist U.	201	3,900	0	3,083	0	41	0	0	174	0	602	0
U. North Carolina, Charlotte	202	3,886	504	0	967	0	1,154	145	423	0	634	59
Florida A&M U.	203	3,861	89	81	0	0	7	0	0	0	3,684	0
Indiana U.-Purdue U., Indianapolis	204	3,834	22	0	1,996	0	611	0	0	0	1,205	0
Baylor U.	205	3,801	2	100	210	0	63	42	0	0	3,384	0
Morehouse School of Medicine	206	3,792	0	0	3,792	0	0	0	0	0	0	0
Embry-Riddle Aeronautical U.	207	3,741	0	30	229	0	1,551	0	0	0	1,870	61
Cleveland State U.	208	3,624	0	0	803	0	0	0	131	0	2,690	0
Scripps Research Institute	209	3,621	0	0	3,621	0	0	0	0	0	0	0
National Defense U.	210	3,459	59	0	500	0	0	0	2,900	0	0	0
Georgia State U.	211	3,367	881	0	489	110	677	0	0	0	0	1,210
U. Guam	212	3,286	0	511	2,659	116	0	0	0	0	0	0
CUNY, City C.	213	3,179	186	49	103	0	1,248	0	0	0	1,593	0
U. Louisiana, Lafayette	214	3,175	564	113	2,475	0	0	0	0	0	0	23
U. Oregon	215	3,111	840	0	627	0	1,161	154	0	0	232	97
U. Arkansas for Medical Sciences	216	3,097	0	0	3,097	0	0	0	0	0	0	0
Jackson State U.	217	3,071	63	0	0	0	1,198	0	0	0	1,810	0
Marquette U.	218	2,981	0	0	1,186	0	0	0	0	0	1,700	95
East Carolina U.	219	2,974	998	155	1,015	0	95	0	45	0	434	232

Table 24. Federally financed higher education R&D expenditures at institutions in the standard form survey population, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Florida Institute of Technology	220	2,942	707	541	0	28	26	0	0	322	1,318	0
U. Nebraska, Omaha	221	2,844	2,379	0	418	0	0	47	0	0	0	0
Clarkson U.	222	2,829	0	0	192	37	6	0	0	0	2,490	104
U. California, Merced	223	2,738	113	0	577	168	727	0	9	27	734	383
William & Mary	224	2,730	2	1,233	109	101	295	0	990	0	0	0
Towson U.	225	2,704	1,968	347	180	0	209	0	0	0	0	0
Kansas State U.	226	2,686	341	0	713	0	287	373	245	0	727	0
Augusta U.	227	2,669	209	0	2,460	0	0	0	0	0	0	0
U. Tennessee, Health Science Center	228	2,647	0	0	2,647	0	0	0	0	0	0	0
U. Arkansas, Little Rock	229	2,599	187	0	2,002	0	48	0	0	0	362	0
Cold Spring Harbor Laboratory	230	2,543	i 0 i	0 i	2,543 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
California State U., San Marcos	231	2,481	0	42	0	0	0	0	0	2,393	46	0
Portland State U.	232	2,298	296	228	238	248	0	13	0	0	1,275	0
Louisiana State U., Health Sciences Center, New Orleans	233	2,281	0	0	2,281	0	0	0	0	0	0	0
Alfred U.	234	2,253	0	0	0	0	0	0	0	0	2,253	0
U. Akron	235	2,241	0	0	0	0	1,480	0	0	0	761	0
Oakland U.	236	2,200	591	0	14	0	477	0	0	0	965	153
Alabama A&M U.	237	2,145	i 205 i	0 i	462 i	20 i	129 i	15 i	24 i	0 i	1,255 i	35 i
U. Texas Rio Grande Valley	238	2,137	0	0	40	0	72	0	0	0	2,025	0
Citadel Military C. South Carolina	239	2,055	2,036	0	19	0	0	0	0	0	0	0
Saint Louis U.	240	2,053	187	359	476	0	232	0	0	0	799	0
Delaware State U.	241	2,028	28	0	46	0	1,425	0	0	0	505	24
Illinois Institute of Technology	242	1,842	137	0	261	0	94	0	0	0	1,350	0
CUNY, Queens C.	243	1,803	0	0	20	0	1,005	0	778	0	0	0
Louisiana Tech U.	244	1,758	302	0	1	39	106	0	0	0	888	422
Virginia Military Institute	245	1,743	1,743	0	0	0	0	0	0	0	0	0
American U.	246	1,719	0	0	0	204	38	0	0	1,475	0	2
Tuskegee U.	247	1,688	8	0	0	0	0	8	0	0	1,672	0
U. New Orleans	248	1,616	1,240	0	0	81	104	0	115	0	76	0
Chapman U.	249	1,571	0	0	468	0	707	0	310	0	86	0
SUNY, Downstate Health Sciences U.	250	1,521	0	0	1,521	0	0	0	0	0	0	0
Tennessee Technological U.	251	1,488	434	0	194	0	0	0	0	0	860	0
Texas A&M U.-Corpus Christi	251	1,488	0	236	32	0	172	0	0	212	836	0
U. Nevada, Las Vegas	253	1,410	0	39	219	0	884	114	0	0	154	0
Van Andel Research Institute	254	1,384	0	0	1,384	0	0	0	0	0	0	0
U. San Diego	255	1,356	0	0	0	1,319	37	0	0	0	0	0
Central Michigan U.	256	1,317	0	0	50	0	106	0	0	1,062	99	0

Table 24. Federally financed higher education R&D expenditures at institutions in the standard form survey population, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Rutgers, State U. New Jersey, Newark	257	1,292	527	342	104	0	0	0	0	0	0	319
U. Alaska, Anchorage	258	1,267	0	0	1,267	0	0	0	0	0	0	0
San Jose State U.	259	1,245	0	1,167	78	0	0	0	0	0	0	0
Medical U. South Carolina	260	1,232	i 0 i	0 i	1,232 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
U. Colorado Colorado Springs	261	1,226	885	56	0	132	0	0	0	0	123	30
Dakota State U.	262	1,211	1,211	0	0	0	0	0	0	0	0	0
Youngstown State U.	263	1,170	0	0	0	0	0	56	0	0	1,114	0
Creighton U.	264	1,132	i 360 i	0 i	335 i	93 i	309 i	13 i	16 i	0 i	0 i	6 i
U. Michigan, Dearborn	265	1,112	0	0	0	91	0	0	0	0	1,021	0
Brandeis U.	266	1,096	21	0	322	0	732	0	21	0	0	0
California Polytechnic State U., San Luis Obispo	266	1,096	0	165	0	0	196	0	0	0	612	123
Prairie View A&M U.	268	1,094	65	0	230	0	269	0	0	0	530	0
Duquesne U.	269	1,079	0	0	1,035	0	0	0	0	0	0	44
SUNY, C. of Environmental Science and Forestry	270	1,032	0	0	531	0	0	0	0	0	501	0
U. Puerto Rico, Mayaguez	271	986	0	116	0	0	0	0	0	0	870	0
U. Massachusetts, Boston	272	970	35	0	599	0	0	0	0	0	336	0
Ohio U.	273	943	0	0	172	54	98	0	143	0	476	0
Southern Illinois U., Carbondale	274	933	0	0	745	0	108	0	0	0	80	0
U. Denver	275	925	398	0	396	0	88	0	0	0	43	0
Rockefeller U.	276	917	0	0	917	0	0	0	0	0	0	0
U. of St. Thomas (MN)	277	897	0	0	0	0	0	0	0	0	897	0
Sam Houston State U.	278	890	110	0	0	0	147	0	633	0	0	0
U. of the District of Columbia	279	889	0	0	0	0	0	0	0	0	889	0
Virginia State U.	280	852	0	0	0	0	0	0	0	0	852	0
Loyola U., Chicago	281	829	578	0	251	0	0	0	0	0	0	0
U. Wisconsin-Milwaukee	281	829	0	0	2	0	0	124	0	0	703	0
East Tennessee State U.	283	815	0	0	216	0	100	0	29	0	0	470
CUNY, Hunter C.	284	792	72	0	183	0	264	0	0	0	273	0
Albany Medical C.	285	788	0	0	788	0	0	0	0	0	0	0
Western Illinois U.	286	781	i 0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	781 i	0 i
Purdue U., Northwest	287	779	614	0	0	0	0	0	0	0	162	3
California State U., Northridge	288	768	0	0	97	316	192	0	0	0	114	49
Tennessee State U.	289	725	251	0	19	0	45	0	0	0	398	12
U. Puerto Rico, Medical Sciences Campus	289	725	0	0	725	0	0	0	0	0	0	0
West Texas A&M U.	291	717	0	0	0	0	0	0	0	0	470	247
U. North Carolina, Wilmington	292	712	133	151	341	2	0	0	37	0	48	0
U. North Carolina, Greensboro	293	705	0	0	83	0	430	0	0	0	0	192

Table 24. Federally financed higher education R&D expenditures at institutions in the standard form survey population, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
New York Medical C.	294	673	0	0	673	0	0	0	0	0	0	0
U. Minnesota, Duluth	295	658	0	0	597	50	0	0	0	0	11	0
Northern Illinois U.	296	629	142	0	0	0	0	446	0	0	41	0
Georgia Southern U.	297	627	0	30	321	29	0	0	173	0	74	0
Western U. of Health Sciences	298	622	0	0	622	0	0	0	0	0	0	0
U. Colorado Denver	299	611	0	0	265	128	0	0	0	0	65	153
Toyota Technological Institute, Chicago	300	607	607	0	0	0	0	0	0	0	0	0
Miami U.	301	592	0	0	154	0	90	185	0	0	33	130
U.S. Army War C.	302	555	i 0 i	0 i	0 i	0 i	0 i	0 i	555 i	0 i	0 i	0 i
Monmouth U.	303	543	0	520	23	0	0	0	0	0	0	0
Rush U.	304	533	0	0	243	0	0	290	0	0	0	0
Oregon Institute of Technology	305	518	i 67 i	12 i	111 i	21 i	0 i	1 i	0 i	0 i	306 i	0 i
SUNY, Cobleskill	306	512	0	0	0	0	0	0	0	0	512	0
Robert Morris U.	307	504	9	0	0	0	0	0	0	0	495	0
Catholic U. of America	308	500	0	0	29	0	57	0	0	0	371	43
U. Wyoming	309	497	23	153	243	0	0	0	0	0	12	66
U. Idaho	310	495	44	0	225	0	0	0	0	0	116	110
U. Tennessee, Chattanooga	311	493	0	0	3	0	0	3	0	0	487	0
Fisk U.	312	486	0	0	0	0	486	0	0	0	0	0
SUNY, C. Brockport	313	477	0	0	76	0	0	0	401	0	0	0
Villanova U.	314	474	0	0	0	0	0	0	0	0	474	0
Savannah State U.	315	470	0	128	150	0	0	0	0	0	192	0
Bowie State U.	316	447	373	0	0	74	0	0	0	0	0	0
U. Northern Iowa	317	444	0	0	0	0	444	0	0	0	0	0
Texas Tech U., Health Sciences Center	318	442	0	0	442	0	0	0	0	0	0	0
Clark Atlanta U.	319	435	75	0	0	0	360	0	0	0	0	0
North Carolina Central U.	319	435	0	435	0	0	0	0	0	0	0	0
California State Polytechnic U., Pomona	321	412	76	0	0	0	0	0	0	0	336	0
Southern Illinois U., Edwardsville	322	406	0	0	47	0	197	0	0	0	162	0
Texas A&M U.-Kingsville	322	406	0	0	0	0	67	0	0	0	339	0
U. Washington, Bothell	324	401	0	375	0	0	0	0	0	0	26	0
Kent State U.	325	400	0	0	215	0	125	0	0	0	60	0
Saginaw Valley State U.	326	392	i 195 i	0 i	1 i	0 i	0 i	0 i	178 i	0 i	0 i	18 i
Seton Hall U.	327	386	0	0	0	0	386	0	0	0	0	0
U. Detroit Mercy	328	381	0	0	0	0	0	0	0	0	381	0
Western Michigan U. and Homer Stryker M.D. School of Medicine	329	374	0	0	86	0	0	0	23	0	254	11
Eastern Virginia Medical School	330	365	0	0	365	0	0	0	0	0	0	0

Table 24. Federally financed higher education R&D expenditures at institutions in the standard form survey population, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Arkansas, Pine Bluff	331	364	0	0	0	0	364	0	0	0	0	0
Rosalind Franklin U. of Medicine and Science	332	344	0	0	344	0	0	0	0	0	0	0
U. New Haven	333	342	206	0	0	0	0	0	0	0	136	0
Kennesaw State U.	334	340	152	0	17	0	0	1	0	0	159	11
Wesleyan U.	335	334	0	0	0	196	125	13	0	0	0	0
Southern U. and A&M C., Baton Rouge	336	324	0	0	0	0	239	0	0	0	85	0
South Dakota State U.	337	323	0	0	0	0	53	0	0	0	270	0
New York Institute of Technology	338	315	0	0	150	0	46	0	0	0	119	0
Indiana U. Pennsylvania	339	313	178	0	4	0	0	0	131	0	0	0
Northeast Ohio Medical U.	339	313	0	0	313	0	0	0	0	0	0	0
U. Hawaii, Hilo	341	310	0	73	237	0	0	0	0	0	0	0
Austin Peay State U.	342	309	0	60	246	0	0	0	0	0	3	0
U. Maryland, Eastern Shore	343	301	0	0	301	0	0	0	0	0	0	0
California State U., Bakersfield	344	276	0	0	276	0	0	0	0	0	0	0
U. Maryland Center for Environmental Science	345	262	0	158	104	0	0	0	0	0	0	0
U. South Dakota	345	262	0	0	125	0	0	0	0	0	0	137
Marymount U.	347	258	258	0	0	0	0	0	0	0	0	0
Dillard U.	348	256	20	0	0	0	236	0	0	0	0	0
Middlebury C.	349	254	74	0	0	0	0	0	0	0	0	180
Santa Clara U.	350	253	0	0	0	0	0	0	0	0	253	0
Morehouse C.	351	249	0	0	0	0	249	0	0	0	0	0
California State U., Fullerton	352	248	0	48	0	1	26	125	0	0	48	0
Lawrence Technological U.	353	244	0	0	0	0	0	0	0	0	208	36
Louisiana State U., Health Sciences Center, Shreveport	354	243	0	0	243	0	0	0	0	0	0	0
West Chester U. Pennsylvania	355	242	0	0	242	0	0	0	0	0	0	0
U. of the Incarnate Word	356	232	0	0	0	0	182	0	0	0	50	0
U. Puerto Rico, Rio Piedras	357	228	0	0	0	109	119	0	0	0	0	0
Liberty U.	358	217	209	0	0	0	0	0	0	0	8	0
Texas Southern U.	358	217	0	0	0	217	0	0	0	0	0	0
U. North Florida	360	213	84	0	0	0	0	0	0	0	0	129
U. Missouri, Saint Louis	361	210	0	0	129	0	81	0	0	0	0	0
Western Carolina U.	362	195	0	0	0	0	195	0	0	0	0	0
Christopher Newport U.	363	192	0	0	66	0	126	0	0	0	0	0
U. of Mary Washington	364	190	190	0	0	0	0	0	0	0	0	0
U. Wisconsin-Green Bay	365	188	i 17	i 5	i 42	i 2	i 11	i 1	i 0	i 0	i 106	i 4
Polytechnic U. Puerto Rico	366	181	181	0	0	0	0	0	0	0	0	0
Meharry Medical C.	367	171	i 0	i 0	i 171	i 0	i 0	i 0	i 0	i 0	i 0	i 0





Table 24. Federally financed higher education R&D expenditures at institutions in the standard form survey population, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Benedict C.	405	90	0	0	0	0	90	0	0	0	0	0
California State U., Dominguez Hills	405	90	0	0	4	0	86	0	0	0	0	0
Bentley U.	407	88	0	0	0	0	0	0	0	88	0	0
SUNY, Oswego	408	86	0	0	0	20	0	0	0	0	66	0
C. Wooster	409	84	0	0	0	0	84	0	0	0	0	0
Idaho State U.	409	84	0	0	0	0	0	0	0	0	84	0
Texas Christian U.	411	83	0	16	0	0	0	0	0	0	8	59
Appalachian State U.	412	81	2	0	40	0	39	0	0	0	0	0
St. John's U., New York	413	77	0	0	0	0	77	0	0	0	0	0
U. of the Pacific	414	74	0	0	74	0	0	0	0	0	0	0
Ursinus C.	415	72	0	0	22	0	50	0	0	0	0	0
James Madison U.	416	71	31	0	40	0	0	0	0	0	0	0
Montclair State U.	417	70	0	0	70	0	0	0	0	0	0	0
Manhattan C.	418	69	0	0	0	69	0	0	0	0	0	0
Texas A&M International U.	419	67	0	0	0	0	67	0	0	0	0	0
California State U., Los Angeles	420	65	0	0	0	0	0	0	0	0	65	0
Middle Tennessee State U.	421	64	0	0	0	0	0	0	64	0	0	0
Hawaii Pacific U.	422	61	61	0	0	0	0	0	0	0	0	0
Elon U.	423	59	0	0	0	0	0	0	0	0	0	59
California State U., Monterey Bay	424	58	0	58	0	0	0	0	0	0	0	0
Loma Linda U.	424	58	0	0	58	0	0	0	0	0	0	0
Troy U.	426	57	0	57	0	0	0	0	0	0	0	0
California State U., Channel Islands	427	55	0	0	0	0	55	0	0	0	0	0
SUNY, Polytechnic Institute	427	55	32	0	0	0	0	0	0	0	23	0
Providence C.	429	53	0	0	0	0	0	0	0	0	53	0
U. Texas Health Science Center, Tyler	430	50	0	0	50	0	0	0	0	0	0	0
CUNY, Lehman C.	431	49	0	0	0	0	49	0	0	0	0	0
Pennsylvania State U., Harrisburg	431	49	0	0	0	0	0	0	0	0	0	49
Hampton U.	433	48	0	0	0	0	0	0	0	0	48	0
California State U., Chico	434	47	0	0	0	0	0	0	0	0	47	0
Calvin U.	434	47	0	0	0	47	0	0	0	0	0	0
U. Baltimore	436	46	0	0	0	0	0	46	0	0	0	0
Winthrop U.	436	46	46	0	0	0	0	0	0	0	0	0
Texas A&M U.-San Antonio	438	44	44	0	0	0	0	0	0	0	0	0
U. Washington, Tacoma	438	44	0	0	44	0	0	0	0	0	0	0
Long Island U.	440	43	0	0	43	0	0	0	0	0	0	0
U. Wisconsin-Eau Claire	441	42	0	0	42	0	0	0	0	0	0	0

Table 24. Federally financed higher education R&D expenditures at institutions in the standard form survey population, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2024

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures		Computer and information sciences		Geosciences, atmospheric sciences, and ocean sciences		Life sciences		Mathematics and statistics		Physical sciences		Psychology		Social sciences		Sciences nec		Engineering		All non-S&E fields	
New C. Florida	442	39		0		39		0		0		0		0		0		0		0		0	
Edward Via C. of Osteopathic Medicine	443	38		0		0		38		0		0		0		0		0		0		0	
SUNY, Buffalo State U.	443	38		38		0		0		0		0		0		0		0		0		0	
U. Hartford	443	38		0		0		38		0		0		0		0		0		0		0	
California State U., Fresno	446	34		0		0		0		0		0		0		0		0		34		0	
Occidental C.	446	34		0		5		0		29		0		0		0		0		0		0	
CUNY, Graduate Center	448	32		0		0		0		0		32		0		0		0		0		0	
SUNY, C. of Optometry	448	32		0		0		32		0		0		0		0		0		0		0	
Swarthmore C.	450	31		0		0		0		0		0		0		0		0		31		0	
Seattle U.	451	30		0		0		0		0		0		0		0		0		30		0	
Lake Superior State U.	452	26		0		0		18		0		0		0		0		0		8		0	
Roger Williams U.	452	26		0		0		0		0		0		0		0		0		26		0	
Bucknell U.	454	25		0		0		0		3		0		0		0		0		22		0	
West Virginia State U.	455	24		0		0		24		0		0		0		0		0		0		0	
Florida Polytechnic U.	456	23		0		0		0		0		0		0		0		0		23		0	
U. North Georgia	456	23		0		0		0		0		23		0		0		0		0		0	
U. Wisconsin-La Crosse	458	21		0		0		0		0		0		0		21		0		0		0	
U. Wisconsin-River Falls	459	19		0		0		19		0		0		0		0		0		0		0	
Albany State U.	460	17		0		0		17		0		0		0		0		0		0		0	
CUNY, Brooklyn C.	460	17		0		0		0		17		0		0		0		0		0		0	
Rhode Island School of Design	462	16		0		0		0		0		0		0		0		0		16		0	
U. North Carolina, Asheville	463	15		15		0		0		0		0		0		0		0		0		0	
Claremont McKenna C.	464	13		0		0		0		0		13		0		0		0		0		0	
Drake U.	464	13		0		0		0		0		0		0		0		0		0		13	
Hofstra U.	466	12		12		0		0		0		0		0		0		0		0		0	
Denison U.	467	10	i	1	i	0	i	3	i	1	i	4	i	1	i	0	i	0	i	0	i	0	i
CUNY, Baruch C.	468	5		0		0		5		0		0		0		0		0		0		0	
San Francisco State U.	468	5		0		0		0		0		5		0		0		0		0		0	
Texas A&M U.-Commerce	470	3		0		0		0		0		0		3		0		0		0		0	
U. Houston-Clear Lake	470	3		0		0		0		0		0		0		0		3		0		0	
U. of Health Sciences and Pharmacy in St. Louis	470	3		0		0		3		0		0		0		0		0		0		0	
Stockton U.	473	2		0		0		2		0		0		0		0		0		0		0	
C. of Saint Benedict	474	1	i	1	i	0	i	0	i	0	i	0	i	0	i	0	i	0	i	0	i	0	i

i = imputed.

DOD = Department of Defense; nec = not elsewhere classified; S&E = science and engineering.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$1,735,681 thousand in R&D expenditures financed by DOD in FY 2024.

<sup>b</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>c</sup> The University of Oklahoma includes expenditures from the University of Oklahoma, Tulsa and University of Oklahoma, Norman and Health Science Center campuses. Due to a reorganization, the campuses began reporting as one unit in FY 2024.

**Note(s):**

Institutions reporting zero expenditures in ranked total for FY 2024 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see [table 5](#).

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2024.

Table 25. Higher education R&D expenditures at institutions in the standard form survey population, by state: FYs 2010–24

(Dollars in thousands)

State	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
United States	61,286,610	65,274,393	65,730,064	66,978,647	67,161,428	68,520,986	71,737,194	75,150,488	79,027,030	83,490,430	86,308,537	89,706,305	97,677,440	108,696,625	117,554,145
Alabama	847,072	898,422	830,538	837,871	812,803	898,010	944,506	994,210	1,052,494	1,123,491	1,186,697	1,272,604	1,431,393	1,579,469	1,759,204
Alaska	180,888	185,942	181,983	184,472	174,431	163,012	167,308	176,424	165,198	169,296	177,537	196,501	226,717	241,536	275,510
Arizona	944,795	997,700	1,039,424	1,065,136	1,047,329	1,099,837	1,162,283	1,213,469	1,358,920	1,434,177	1,499,135	1,516,463	1,690,904	1,939,790	2,116,384
Arkansas	267,405	282,628	289,364	294,572	285,691	293,494	298,497	312,533	343,066	364,781	370,782	387,674	416,507	457,800	489,996
California	7,832,767	8,225,420	8,401,638	8,357,891	8,403,770	8,656,350	8,888,492	9,226,580	10,170,328	10,478,948	10,903,554	11,221,457	12,113,681	13,477,453	14,368,425
Colorado	1,180,741	1,292,081	1,338,888	1,253,466	1,232,376	1,273,753	1,378,920	1,461,877	1,552,251	1,622,011	1,665,742	1,746,975	1,898,797	2,084,784	2,193,554
Connecticut	888,949	945,705	947,346	1,060,448	1,062,741	1,092,405	1,176,170	1,255,538	1,288,078	1,387,319	1,400,865	1,494,357	1,587,047	1,759,984	1,999,988
Delaware	168,511	188,765	185,842	197,262	193,242	191,704	197,615	204,221	207,569	229,287	243,550	254,725	397,123	461,627	509,504
District of Columbia	470,217	493,469	501,534	524,241	543,149	559,222	555,721	601,551	630,161	664,872	684,793	717,928	783,163	928,829	1,018,427
Florida	1,994,860	2,125,648	2,179,352	2,171,626	2,272,556	2,354,871	2,483,359	2,584,487	2,529,896	2,682,412	2,694,387	2,750,264	3,048,253	3,518,895	3,786,994
Georgia	1,691,603	1,808,679	1,882,308	1,956,245	1,950,990	2,046,068	2,168,071	2,340,410	2,473,503	2,650,343	2,782,005	2,949,654	3,260,128	3,663,637	4,068,118
Hawaii	317,942	330,838	335,704	343,802	335,189	332,233	318,134	301,204	297,975	301,419	298,285	294,913	301,272	339,716	403,976
Idaho	126,433	142,364	146,326	143,728	142,772	146,700	154,989	163,093	171,053	167,903	170,595	165,913	179,835	206,438	215,656
Illinois	2,224,414	2,352,326	2,362,224	2,501,413	2,327,098	2,382,947	2,400,990	2,503,276	2,570,270	2,709,733	2,764,233	2,914,398	3,160,587	3,476,127	3,827,168
Indiana	1,186,421	1,271,364	1,306,462	1,336,343	1,308,856	1,323,824	1,408,862	1,461,367	1,505,426	1,661,312	1,715,310	1,699,302	1,872,200	2,146,500	2,301,675
Iowa	706,667	724,608	718,281	714,366	773,760	758,796	814,031	830,587	885,861	880,424	917,407	931,113	1,005,800	1,102,499	1,183,337
Kansas	482,901	511,048	527,122	545,364	547,813	562,254	559,279	577,566	640,735	703,716	739,872	785,055	882,644	1,054,041	1,205,981
Kentucky	575,277	596,081	586,240	550,941	533,834	516,754	546,527	583,143	596,532	615,383	641,301	655,290	733,242	756,549	788,005
Louisiana	713,675	727,510	699,228	671,580	665,754	662,778	683,125	690,958	744,283	778,357	798,373	830,787	940,849	1,063,651	1,168,491
Maine	137,516	139,983	120,072	104,573	124,688	103,102	100,351	122,740	128,500	151,249	153,262	165,224	191,739	211,287	223,493
Maryland	3,139,254	3,416,687	3,359,741	3,433,145	3,573,167	3,741,687	3,799,639	4,017,092	4,167,470	4,629,161	4,745,030	4,914,256	5,168,958	5,987,528	6,566,825
Massachusetts	2,749,926	2,949,264	3,214,549	3,532,767	3,500,516	3,673,620	3,796,798	3,928,192	4,059,931	4,305,676	4,389,620	4,555,840	4,835,816	5,176,414	5,497,794
Michigan	2,031,479	2,161,520	2,219,505	2,267,080	2,242,864	2,334,031	2,468,498	2,662,045	2,781,359	2,891,267	2,868,417	2,844,482	3,082,760	3,368,889	3,719,667
Minnesota	831,754	898,741	864,938	901,404	919,257	928,999	961,040	968,784	999,660	1,060,927	1,086,730	1,115,363	1,241,862	1,365,645	1,466,601
Mississippi	443,625	460,962	476,078	416,772	410,543	408,232	454,983	479,122	479,431	535,774	506,660	491,522	565,725	608,614	668,784
Missouri	1,087,432	1,121,330	1,098,287	1,074,632	1,050,665	1,074,115	1,151,047	1,188,439	1,260,217	1,368,942	1,444,375	1,582,870	1,708,351	1,873,279	2,017,129
Montana	207,827	195,267	196,721	185,996	181,127	181,680	195,125	229,206	230,099	273,459	290,297	330,081	340,611	382,015	425,370
Nebraska	400,660	412,756	438,303	444,917	454,744	464,664	481,383	513,581	535,911	572,488	586,550	589,184	626,792	680,337	725,732
Nevada	174,247	165,437	153,325	153,427	153,571	157,528	191,155	205,761	260,074	282,740	296,470	308,745	312,714	325,781	352,617
New Hampshire	311,455	359,839	366,337	354,296	365,537	357,665	379,991	455,859	471,347	473,061	484,313	498,518	551,187	590,539	650,431
New Jersey	1,075,872	1,141,570	1,113,109	1,173,474	1,130,474	1,106,186	1,158,998	1,261,174	1,350,470	1,336,562	1,393,596	1,352,770	1,516,963	1,717,387	1,810,160
New Mexico	422,868	405,339	400,952	403,776	412,428	390,913	367,031	370,329	369,927	365,769	376,331	473,773	545,210	564,566	581,677
New York	4,948,442	5,288,932	5,352,978	5,519,542	5,638,584	5,700,230	6,075,419	6,388,367	6,633,634	7,075,350	7,171,446	7,577,235	8,280,323	9,061,191	9,629,117
North Carolina	2,465,260	2,668,842	2,681,840	2,739,920	2,814,943	2,814,924	2,937,671	3,081,568	3,204,297	3,388,360	3,385,735	3,504,060	3,870,874	4,358,896	4,654,395
North Dakota	204,049	211,057	215,642	219,115	222,032	217,926	226,572	255,942	255,534	263,217	267,308	307,556	322,621	373,912	399,113
Ohio	2,051,857	2,221,827	2,128,968	2,168,267	2,158,565	2,152,796	2,193,019	2,299,112	2,370,346	2,499,431	2,518,803	2,788,160	3,079,902	3,392,194	3,691,288
Oklahoma	400,731	444,722	437,180	420,067	419,653	419,602	488,559	505,940	517,283	533,785	604,784	622,655	654,291	722,571	794,504

Table 25. Higher education R&D expenditures at institutions in the standard form survey population, by state: FYs 2010–24

(Dollars in thousands)

State	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Oregon	696,272	739,733	722,421	704,764	705,688	719,881	759,243	780,741	820,988	863,844	894,789	929,378	1,000,261	1,093,574	1,170,311
Pennsylvania	3,128,420	3,315,363	3,239,240	3,361,374	3,328,851	3,356,723	3,950,517	4,178,978	4,406,037	4,649,772	4,819,394	4,933,707	5,379,806	5,954,796	6,447,014
Rhode Island	428,738	459,321	495,366	479,162	447,469	453,291	463,300	333,572	369,793	392,885	398,673	429,278	458,694	513,818	533,026
South Carolina	660,415	620,533	636,534	648,137	655,757	665,319	687,110	699,199	736,318	742,924	743,728	755,089	808,632	918,964	989,924
South Dakota	131,165	136,305	129,200	117,361	104,962	103,368	106,941	112,916	115,860	118,377	110,619	100,534	117,368	129,045	142,393
Tennessee	938,237	1,016,915	1,025,283	1,032,124	1,133,373	1,077,068	1,091,835	1,183,795	1,293,909	1,337,211	1,408,786	1,624,957	1,715,468	1,972,549	2,119,187
Texas	4,416,323	4,661,517	4,651,322	4,813,050	4,898,443	5,036,366	5,254,298	5,472,126	5,622,830	5,970,929	6,620,370	6,850,383	7,504,105	8,330,578	9,145,128
Utah	562,349	627,180	622,244	688,972	693,796	733,407	573,106	611,015	812,458	924,632	950,562	993,876	1,062,475	1,264,913	1,404,337
Vermont	132,792	137,303	120,226	121,110	114,549	119,663	120,306	122,003	131,670	138,716	193,824	198,247	218,910	238,418	251,691
Virginia	1,199,244	1,390,412	1,379,440	1,419,504	1,381,078	1,411,176	1,462,939	1,551,003	1,684,274	1,814,048	1,918,654	1,942,260	2,123,167	2,283,323	2,553,813
Washington	1,358,061	1,502,284	1,475,365	1,526,001	1,499,528	1,518,660	1,613,401	1,715,069	1,779,849	1,805,214	1,829,724	1,887,462	1,975,938	2,165,719	2,156,193
West Virginia	194,834	210,899	202,118	196,492	195,675	199,167	199,164	210,259	211,695	212,963	217,788	231,347	248,022	286,502	305,800
Wisconsin	1,335,621	1,442,933	1,483,983	1,419,426	1,412,594	1,372,168	1,458,791	1,504,025	1,542,080	1,659,741	1,746,640	1,771,499	1,954,004	2,215,597	2,440,956
Wyoming	55,319	57,549	65,611	65,490	51,422	56,996	112,056	125,032	113,063	80,353	93,061	93,202	139,764	150,124	167,306
American Samoa	ne	ne	ne	ne	ne	1,337	793	ne	ne	860	ne	815	ne	ne	ne
Guam	5,555	5,626	6,131	6,043	7,075	6,062	7,402	8,842	11,225	12,249	13,043	17,666	20,481	22,388	25,306
Puerto Rico	125,123	163,853	151,532	135,659	123,285	126,792	120,619	113,868	103,935	121,074	111,101	123,707	103,245	115,688	131,908
Virgin Islands	32,350	21,994	25,719	20,041	20,371	20,630	21,215	12,298	11,957	12,236	13,631	15,231	20,259	20,259	14,762

ne = not eligible; no institutions within the state met the criteria for inclusion.

**Source(s):**  
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

Table 26. Headcount and FTEs of R&D personnel at higher education institutions in the standard form survey population, by personnel function and sex: FYs 2020–24

(Number)

Personnel functions	2020		2021		2022		2023		2024	
	Headcount	FTEs	Headcount	FTEs	Headcount	FTEs	Headcount	FTEs	Headcount	FTEs
All personnel functions	962,282	450,766	969,159	469,576	1,032,569	497,012	1,058,388	513,860	1,086,850	525,960
Female	NA	na	NA	na	516,401	na	533,416	na	549,658	na
Male	NA	na	NA	na	491,842	na	501,300	na	509,973	na
Sex unknown or not stated	NA	na	NA	na	24,326	na	23,672	na	27,219	na
Researchers	343,757	176,546	357,455	187,661	367,976	195,597	378,402	198,745	394,534	209,336
Female	NA	na	NA	na	153,571	na	161,976	na	171,237	na
Male	NA	na	NA	na	206,128	na	209,064	na	214,779	na
Sex unknown or not stated	NA	na	NA	na	8,277	na	7,362	na	8,518	na
R&D technicians	356,105	176,620	370,077	182,317	389,693	180,377	402,286	193,848	414,120	204,708
Female	NA	na	NA	na	200,004	na	207,195	na	214,737	na
Male	NA	na	NA	na	181,295	na	187,551	na	190,659	na
Sex unknown or not stated	NA	na	NA	na	8,394	na	7,540	na	8,724	na
R&D support staff	262,420	97,600	241,627	99,599	274,900	121,038	277,700	121,267	278,196	111,916
Female	NA	na	NA	na	162,826	na	164,245	na	163,684	na
Male	NA	na	NA	na	104,419	na	104,685	na	104,535	na
Sex unknown or not stated	NA	na	NA	na	7,655	na	8,770	na	9,977	na

NA = not available; headcount demographic subfields are not available for FYs 2020 and 2021. na = not applicable; FTEs by sex are not collected.

FTE = full-time equivalent.

**Note(s):**  
FTE R&D personnel are calculated as the total working effort spent on R&D during a specific period divided by the total effort representing a full-time schedule within the same period. This table includes only institutions reporting \$1 million or more in total R&D expenditures in FY 2023. Institutions reporting less than \$1 million in total R&D expenditures in FY 2023 completed a shorter version of the survey form in FY 2024 that did not include this question.

**Source(s):**  
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.



Table 27. Headcount and FTEs of R&D personnel at higher education institutions in the standard form survey population, by state, institutional control, institution, and personnel function: FY 2024

(Number)

State, institutional control, and institution	All personnel functions				Researchers				R&D technicians				R&D support staff			
	Headcount		FTEs		Headcount		FTEs		Headcount		FTEs		Headcount		FTEs	
United States	1,086,850		525,960		394,534		209,336		414,120		204,708		278,196		111,916	
Alabama																
Public																
Alabama A&M U.	359		154.1		77		20.6		153		66.4		129		67.1	
Alabama State U.	170	i	70.0	i	105	i	46.8	i	27	i	12.1	i	38	i	11.1	i
Auburn U., Auburn	2,080		516.5		1,303		350.6		753		159.2		24		6.7	
Auburn U., Montgomery	91		7.3		13		0.2		0		0.0		78		7.1	
Troy U.	161		71.6		125		62.5		23		5.8		13		3.3	
U. Alabama, Birmingham	5,872	i	2,359.9	i	2,092	i	932.6	i	2,255	i	987.9	i	1,525	i	439.4	i
U. Alabama, Huntsville	1,433		629.8	i	863		384.7	i	501		225.2	i	69		19.9	i
U. Alabama, Tuscaloosa	3,303		1,337.8		1,295		514.1		1,837		737.1		171		86.6	
U. South Alabama	774		243.9		185		69.3		149		69.3		440		105.3	
Private																
Tuskegee U.	20		10.0		20		10.0		NA		NA		NA		NA	
Alaska																
Public																
U. Alaska, Anchorage	220		90.0		55		30.0		30		15.0		135		45.0	
U. Alaska, Fairbanks	1,529		1,189.0		189		176.0		1,340		1,013.0		NA		NA	
U. Alaska, Southeast	1,529		1,189.0		9		8.0		1,520		1,181.0		NA		NA	
Private																
Alaska Pacific U.	58		12.3		40		8.0		16		4.0		2		0.3	
Arizona																
Public																
Arizona State U.	11,268		1,493.0		5,442		770.0		2,926		166.0		2,900		557.0	
Dine C.	114		51.4		14		7.6		14		11.9		86		31.9	
Northern Arizona U.	1,456		605.5		405		382.1		272		158.8		779		64.6	
U. Arizona	9,725		3,446.0		1,345		570.0		2,882		1,509.0		5,498		1,367.0	
Arkansas																
Public																
Arkansas State U., Jonesboro	398		71.4		76		18.3		287		36.7		35		16.4	
U. Arkansas for Medical Sciences	1,610	i	656.1	i	695	i	310.1	i	548	i	240.2	i	367	i	105.8	i
U. Arkansas, Fayetteville	2,690		1,595.3		921		781.4		1,174		488.3		595		325.6	
U. Arkansas, Little Rock	316	i	117.8	i	66	i	29.3	i	100	i	45.2	i	150	i	43.3	i
U. Arkansas, Pine Bluff	163		70.0	i	64		28.5	i	80		36.0	i	19		5.5	i
U. Central Arkansas	85		34.0	i	58		25.9	i	2		0.9	i	25		7.2	i
California																
Public																

Table 27. Headcount and FTEs of R&D personnel at higher education institutions in the standard form survey population, by state, institutional control, institution, and personnel function: FY 2024

State, institutional control, and institution	All personnel functions			Researchers			R&D technicians			R&D support staff		
	Headcount	FTEs		Headcount	FTEs		Headcount	FTEs		Headcount	FTEs	
California Polytechnic State U., San Luis Obispo	1,031	536.1	i	192	85.6	i	839	450.5	i	0	0.0	
California State Polytechnic U., Humboldt	657	132.4		78	13.5		189	52.5		390	66.4	
California State Polytechnic U., Pomona	712	224.4	i	187	77.0		76	18.0		449	129.4	i
California State U., Bakersfield	41	15.8		21	5.0		20	10.8		0	0.0	
California State U., Channel Islands	111	16.0		70	8.4		38	6.3		3	1.3	
California State U., Chico	309	128.2	i	108	48.0	i	136	61.3	i	65	18.9	i
California State U., Dominguez Hills	154	74.8		30	12.5		89	44.8		35	17.5	
California State U., East Bay	394	166.0	i	236	105.2	i	94	42.3	i	64	18.5	i
California State U., Fresno	468	192.0	i	171	76.1	i	188	84.5	i	109	31.4	i
California State U., Fullerton	875	142.4		566	121.5		287	18.1		22	2.8	
California State U., Long Beach	688	100.7		129	21.4		413	49.4		146	29.9	
California State U., Los Angeles	617	55.0		495	25.0		62	15.0		60	15.0	
California State U., Monterey Bay	202	49.4		64	15.9		93	25.1		45	8.4	
California State U., Northridge	578	252.7	i	162	72.2	i	376	169.0	i	40	11.5	i
California State U., Sacramento	663	295.0	i	659	293.8	i	NA	NA		4	1.2	i
California State U., San Bernardino	247	41.1		39	5.1		14	3.2		194	32.8	
California State U., San Marcos	327	149.1		131	41.5		168	87.8		28	19.8	
California State U., Stanislaus	139	12.8		35	4.1		102	8.7		2	0.0	
Naval Postgraduate School	539	236.8	i	382	170.3	i	132	59.3	i	25	7.2	i
San Diego State U.	3,333	1,455.9	i	1,720	766.8	i	1,390	624.8	i	223	64.3	i
San Francisco State U.	944	479.3		296	151.3		622	318.0		26	10.0	
San Jose State U.	1,114	203.5		302	96.5		154	17.6		658	89.4	
Sonoma State U.	194	85.7	i	57	25.4	i	129	58.0	i	8	2.3	i
U. California, Berkeley	9,902	3,641.3		5,738	2,384.9		858	468.6		3,306	787.8	
U. California, Davis	10,323	4,179.7		5,193	2,207.5		1,938	1,211.2		3,192	761.0	
U. California, Irvine	4,899	1,685.6		3,573	1,243.9		683	298.0		643	143.7	
U. California, Los Angeles	12,189	4,854.9		6,209	2,229.9		3,079	1,532.4		2,901	1,092.6	
U. California, Merced	1,156	310.0		798	248.4		29	12.7		329	48.9	
U. California, Office of the President	479	175.0		79	14.7		90	28.3		310	132.0	
U. California, Riverside	2,764	958.4		1,722	659.9		277	143.6		765	154.9	
U. California, San Diego	14,805	5,956.0		6,759	2,908.0		3,644	2,058.0		4,402	990.0	
U. California, San Francisco	8,811	3,969.6		4,807	2,034.1		2,827	1,540.5		1,177	395.0	
U. California, Santa Barbara	3,374	1,178.4		2,017	796.9		334	154.0		1,023	227.5	
U. California, Santa Cruz	2,503	793.7		1,481	576.2		190	81.9		832	135.6	
Private												
Azusa Pacific U.	126	30.0		119	26.0		0	0.0		7	4.0	
Biola U.	269	186.3	i	172	126.7	i	69	41.1	i	28	18.5	i

Table 27. Headcount and FTEs of R&D personnel at higher education institutions in the standard form survey population, by state, institutional control, institution, and personnel function: FY 2024

State, institutional control, and institution	All personnel functions			Researchers			R&D technicians			R&D support staff		
	Headcount	FTEs		Headcount	FTEs		Headcount	FTEs		Headcount	FTEs	
California Institute of Technology	3,150	2,281.4	i	2,831	2,080.9	i	136	81.5	i	183	119.0	i
California Lutheran U.	74	25.2		70	23.7		1	0.3		3	1.2	
Chapman U.	477	86.2		113	29.4		30	7.1		334	49.7	
Charles R. Drew U. of Medicine and Science	105	73.1	i	68	50.0	i	15	8.8	i	22	14.3	i
Claremont Graduate U.	208	132.7		21	8.6		112	78.8		75	45.3	
Claremont McKenna C.	603	70.0		115	24.6		368	21.3		120	24.1	
Harvey Mudd C.	81	14.0		39	4.9		42	9.1		0	0.0	
High Tech High Graduate School of Ed.	26	19.0		17	13.0		0	0.0		9	6.0	
Keck Graduate Institute	86	51.0		69	46.0		12	1.0		5	4.0	
La Sierra U.	144	96.6	i	63	46.3	i	52	31.2	i	29	19.1	i
Loma Linda U.	341	67.0		261	38.0		73	26.0		7	3.0	
Loyola Marymount U.	720	95.1		296	39.1		186	42.1		238	13.9	
National U.	169	49.8		9	2.9		156	44.4		4	2.5	
Occidental C.	124	25.0		40	11.6		67	10.4		17	3.0	
Pepperdine U.	310	227.9	i	310	227.9	i	NA	NA		NA	NA	
Pomona C.	196	13.2		55	3.0		141	10.2		0	0.0	
Santa Clara U.	287	194.0	i	134	98.7	i	84	50.2	i	69	45.1	i
Scripps Research Institute	1,587	1,507.8		181	158.6		1,210	1,182.6		196	166.6	
Stanford U.	11,712	7,692.9	i	4,519	3,321.6	i	4,904	2,882.7	i	2,289	1,488.6	i
Touro U., California	22	13.2		5	1.0		17	12.2		0	0.0	
U. of the Pacific	76	30.0		13	3.0		28	12.0		35	15.0	
U. San Diego	357	49.0		161	30.1		163	15.6		33	3.3	
U. San Francisco	308	198.7	i	84	61.7	i	169	101.0	i	55	36.0	i
U. Southern California	10,052	4,283.2		1,627	690.6		4,832	2,370.6		3,593	1,222.0	
Western U. of Health Sciences	108	46.7		24	7.9		84	38.8		0	0.0	
Colorado												
Public												
Colorado School of Mines	1,944	1,228.0		379	288.0		1,179	722.0		386	218.0	
Colorado State U., Fort Collins	2,377	957.6		2,186	893.7		34	18.7		157	45.2	
Colorado State U., Pueblo	131	54.5	i	57	25.5	i	47	21.3	i	27	7.7	i
Fort Lewis C.	346	141.6	i	51	8.0		286	128.6	i	9	5.0	
U. Colorado Anschutz Medical Campus	6,687	4,166.0		2,428	1,615.0		2,791	1,889.0		1,468	662.0	
U. Colorado Boulder	5,421	4,285.6		1,954	1,859.6		3,054	2,173.9		413	252.1	
U. Colorado Colorado Springs	63	45.0		10	7.0		14	3.0		39	35.0	
U. Colorado Denver	835	238.1		252	77.8		338	135.9		245	24.4	
U. Northern Colorado	315	132.1	i	169	75.3	i	91	40.9	i	55	15.9	i
U.S. Air Force Academy	300	59.0		300	59.0		NA	NA		NA	NA	

Table 27. Headcount and FTEs of R&D personnel at higher education institutions in the standard form survey population, by state, institutional control, institution, and personnel function: FY 2024

(Number)

State, institutional control, and institution	All personnel functions			Researchers			R&D technicians			R&D support staff		
	Headcount	FTEs		Headcount	FTEs		Headcount	FTEs		Headcount	FTEs	
Private												
Colorado C.	54	35.5	i	23	16.9	i	31	18.6	i	0	0.0	i
U. Denver	1,064	907.4		271	227.5		770	659.4		23	20.5	
Connecticut												
Public												
Eastern Connecticut State U.	71	6.1		37	5.0		34	1.1		0	0.0	
Southern Connecticut State U.	209	54.0		107	41.0		85	8.0		17	5.0	
U. Connecticut	4,346	1,288.3		1,137	272.5		2,966	923.5		243	92.3	
Private												
Connecticut C.	34	5.2		14	1.7		1	1.0		19	2.5	
Fairfield U.	244	160.5	i	102	75.0	i	135	80.9	i	7	4.6	i
Hartford International U. for Religion and Peace	277	188.7	i	148	109.1	i	80	48.0	i	49	31.6	i
Sacred Heart U.	165	20.0		165	20.0		NA	NA		NA	NA	
Trinity C., Hartford	206	52.4		44	25.3		162	27.1		0	0.0	
U. Hartford	87	14.2		78	12.0		0	0.0		9	2.2	
U. New Haven	206	41.0		97	16.0		87	8.0		22	17.0	
Wesleyan U.	296	193.5	i	67	49.2	i	89	53.3	i	140	91.0	i
Yale U.	7,606	2,899.6		4,222	2,115.5		2,129	564.1		1,255	220.0	
Delaware												
Public												
Delaware State U.	171	88.9		156	74.7		8	7.4		7	6.8	
U. Delaware	4,310	2,434.0		799	678.0		2,147	1,074.0		1,364	682.0	
District of Columbia												
Public												
National Defense U.	28	24.0		24	22.0		0	0.0		4	2.0	
U. of the District of Columbia	30	5.0		30	5.0		NA	NA		NA	NA	
Private												
American U.	1,341	924.0		149	30.0		929	697.0		263	197.0	
Catholic U. of America	352	246.4		166	115.6		170	117.2		16	13.6	
Gallaudet U.	117	37.4		89	26.0		20	5.3		8	6.1	
George Washington U.	3,119	1,199.4		831	431.2		605	418.4		1,683	349.8	
Georgetown U.	3,505	1,417.8		679	358.7		1,401	622.5		1,425	436.6	
Howard U.	1,163	629.5		339	196.4		418	233.0		406	200.1	
Florida												
Public												
Florida A&M U.	3,797	629.3		105	39.5		218	40.7		3,474	549.1	
Florida Atlantic U.	1,395	721.3		342	270.3		846	433.9		207	17.1	

Table 27. Headcount and FTEs of R&D personnel at higher education institutions in the standard form survey population, by state, institutional control, institution, and personnel function: FY 2024

(Number)

[illegible]

Table 27. Headcount and FTEs of R&D personnel at higher education institutions in the standard form survey population, by state, institutional control, institution, and personnel function: FY 2024

(Number)

State, institutional control, and institution	All personnel functions				Researchers				R&D technicians				R&D support staff			
	Headcount		FTEs		Headcount		FTEs		Headcount		FTEs		Headcount		FTEs	
Public																
U. Hawaii, Hilo	153		72.0		17		7.5		65		24.8		71		39.7	
U. Hawaii, Manoa	3,596		1,977.1		735		484.8		2,309		1,146.2		552		346.1	
U. Hawaii, Maui C.	48		11.3		39		6.2		4		2.3		5		2.8	
U. Hawaii, system office	45		37.3		9		9.0		14		7.9		22		20.4	
Private																
Hawaii Pacific U.	75		28.8		50		12.5		15		11.3		10		5.0	
Idaho																
Public																
Boise State U.	843	i	346.0	i	308	i	137.2	i	339	i	152.3	i	196	i	56.5	i
Idaho State U.	877	i	360.0	i	320	i	142.7	i	353	i	158.5	i	204	i	58.8	i
U. Idaho	2,603		1,793.7		664		597.6		982		689.3		957		506.8	
Illinois																
Public																
Chicago State U.	150	i	60.4	i	56	i	24.8	i	53	i	23.8	i	41	i	11.8	i
Illinois State U.	791	i	349.1	i	473	i	210.7	i	189	i	101.3	i	129	i	37.1	i
Northeastern Illinois U.	33		9.8		23		4.8		1		0.5		9		4.5	
Northern Illinois U.	946		210.2		653		110.1		19		16.8		274		83.3	
Southern Illinois U., Carbondale	1,026	i	425.4	i	440	i	196.1	i	403	i	176.6	i	183	i	52.7	i
Southern Illinois U., Edwardsville	83		16.5		29		3.6		41		8.8		13		4.1	
U. Illinois, Chicago	6,862		2,214.5		2,316		729.7		2,979		962.6		1,567		522.2	
U. Illinois, Springfield	83		31.4		16		4.0		36		16.7		31		10.7	
U. Illinois, Urbana-Champaign	20,171		8,337.0		1,775		1,394.0		13,576		6,274.0		4,820		669.0	
Western Illinois U.	175	i	70.8	i	65	i	29.0	i	62	i	28.0	i	48	i	13.8	i
Private																
DePaul U.	191		63.2		107		26.0		26		8.3		58		28.9	
Erikson Institute	33		14.0		9		4.0		19		7.0		5		3.0	
Illinois C. of Optometry	9		6.8		7		5.0		0		0.0		2		1.8	
Illinois Institute of Technology	662		464.6	i	227		166.9	i	407		279.5	i	28		18.2	i
Loyola U., Chicago	1,110		720.9	i	279		205.1	i	393		231.0	i	438		284.8	i
Midwestern U.	521		131.1		31		3.3		490		127.8		0		0.0	
National Louis U.	149		29.0		149		29.0		0		0.0		0		0.0	
Northwestern U.	9,652		4,367.0		3,692		2,483.5		2,589		997.3		3,371		886.2	
Roosevelt U.	28		20.6	i	28		20.6	i	0		0.0	i	0		0.0	i
Rosalind Franklin U. of Medicine and Science	150		87.0		120		65.0		22		16.0		8		6.0	
Rush U.	1,058		629.6		315		112.4		637		454.1		106		63.1	
Toyota Technological Institute, Chicago	68		28.9		68		28.9		0		0.0		0		0.0	

Table 27. Headcount and FTEs of R&D personnel at higher education institutions in the standard form survey population, by state, institutional control, institution, and personnel function: FY 2024

State, institutional control, and institution	All personnel functions			Researchers			R&D technicians		R&D support staff	
	Headcount	FTEs		Headcount	FTEs		Headcount	FTEs	Headcount	FTEs
U. Chicago	5,848	2,728.0		4,333	1,959.0		786	545.0	729	224.0
Wheaton C., Wheaton	97	16.3		92	15.0		3	0.5	2	0.8
Indiana										
Public										
Ball State U.	597	114.3		149	10.1		407	93.3	41	10.9
Indiana State U.	182	57.1	i	10	4.5	i	19	8.5	153	44.1
Indiana U., Bloomington	8,825	3,565.0		2,548	1,215.5		6,158	2,291.0	119	58.5
Indiana U., South Bend	324	28.8		31	2.5		131	11.9	162	14.4
Indiana U.-Purdue U., Indianapolis	1,779	445.2		485	137.9		1,284	303.5	10	3.8
Purdue U., Fort Wayne	130	22.5		63	14.5		0	0.0	67	8.0
Purdue U., Northwest	311	45.6		136	21.3		7	2.4	168	21.9
Purdue U., West Lafayette	13,397	3,532.0		9,155	2,735.5		671	317.2	3,571	479.3
Private										
Butler U.	104	18.0		37	6.0		67	12.0	0	0.0
Marian U., Indianapolis	274	34.1		211	25.2		58	4.5	5	4.4
U. Notre Dame	4,191	2,599.7	i	490	360.2	i	3,279	1,965.1	422	274.4
Valparaiso U.	63	7.1		21	2.6		22	2.3	20	2.2
Iowa										
Public										
Iowa State U.	5,098	1,625.3		923	384.0		2,548	1,010.8	1,627	230.5
U. Iowa	7,115	2,648.6	i	1,216	542.1	i	2,713	1,188.3	3,186	918.2
U. Northern Iowa	240	32.0		39	6.5		52	15.4	149	10.1
Private										
Des Moines U.	177	31.3		90	17.5		7	7.0	80	6.8
Drake U.	97	62.6	i	20	14.7	i	43	25.8	34	22.1
Grinnell C.	369	54.0		68	27.0		301	27.0	0	0.0
Palmer C. of Chiropractic, Davenport	12	11.3		6	5.8		0	0.0	6	5.5
Kansas										
Public										
Kansas State U.	3,112	2,178.0		1,313	757.0		1,733	1,383.0	66	38.0
Pittsburg State U.	204	82.5	i	76	33.8	i	72	32.6	56	16.1
U. Kansas	5,595	2,120.8		1,598	703.5		3,022	958.0	975	459.3
Wichita State U.	2,705	1,287.5		270	89.3		2,435	1,198.2	NA	NA
Kentucky										
Public										
Eastern Kentucky U.	107	79.0		60	50.0		7	5.0	40	24.0
Kentucky State U.	223	145.0		73	51.0		54	37.0	96	57.0



Table 27. Headcount and FTEs of R&D personnel at higher education institutions in the standard form survey population, by state, institutional control, institution, and personnel function: FY 2024

State, institutional control, and institution	All personnel functions			Researchers			R&D technicians			R&D support staff		
	Headcount		FTEs	Headcount		FTEs	Headcount		FTEs	Headcount		FTEs
Morehead State U.	23		6.7	13		3.0	7		2.7	3		1.0
Murray State U.	117		20.7	16		2.9	98		16.0	3		1.8
Northern Kentucky U.	200		85.8	i 59		26.3	i 117		52.6	i 24		6.9
U. Kentucky	5,670	i	2,278.5	i 2,020		900.4	i 2,178		953.8	i 1,472		424.3
U. Louisville	2,435		1,681.0	951		494.0	1,277		1,047.0	207		140.0
Western Kentucky U.	248		152.0	64		58.0	2		1.5	182		92.5
Louisiana												
Public												
Louisiana State U., Baton Rouge	5,033		2,250.5	1,127		370.0	603		518.0	3,303		1,362.5
Louisiana State U., Health Sciences Center, New Orleans	649		562.0	238		222.0	311		268.0	100		72.0
Louisiana State U., Health Sciences Center, Shreveport	386		177.6	182		86.3	68		39.1	136		52.2
Louisiana Tech U.	466		225.5	424		196.3	26		17.2	16		12.0
Nicholls State U.	35		30.3	16		14.0	18		16.0	1		0.3
Northwestern State U. Louisiana	131	i	54.1	i 57		25.4	i 47		21.1	i 27		7.6
Southeastern Louisiana U.	116		42.7	17		6.5	28		11.8	71		24.4
Southern U. and A&M C., Agricultural Research and Extension Center	97		64.5	31		21.4	43		27.6	23		15.5
Southern U. and A&M C., Baton Rouge	165		69.3	i 84		37.4	i 53		23.8	i 28		8.1
U. Louisiana, Lafayette	1,734		1,412.0	289		246.0	1,100		954.0	345		212.0
U. Louisiana, Monroe	65		10.4	15		4.2	50		6.2	0		0.0
U. New Orleans	328		270.5	191		189.4	110		57.1	27		24.0
Private												
Dillard U.	20		11.0	12		4.0	0		0.0	8		7.0
Tulane U.	1,455		1,098.9	442		219.1	1,013		879.8	NA		NA
Xavier U. Louisiana	301		107.7	80		36.0	185		52.9	36		18.8
Maine												
Public												
U. Maine	2,402		1,099.8	1,261		578.2	606		293.5	535		228.1
U. Southern Maine	385	i	160.3	i 152		67.8	i 157		70.7	i 76		21.8
Private												
Bates C.	58		39.2	i 32		23.5	i 25		15.0	i 1		0.7
Bowdoin C.	84		10.5	28		3.1	11		6.2	45		1.2
Colby C.	120		28.0	41		9.0	2		1.0	77		18.0
U. New England	84		54.3	i 33		24.3	i 51		30.0	i 0		0.0
Maryland												
Public												
Bowie State U.	147		37.0	53		13.0	0		0.0	94		24.0
Morgan State U.	748		229.7	221		77.6	42		18.2	485		133.9

Table 27. Headcount and FTEs of R&D personnel at higher education institutions in the standard form survey population, by state, institutional control, institution, and personnel function: FY 2024

(Number)

State, institutional control, and institution	All personnel functions			Researchers			R&D technicians			R&D support staff		
	Headcount		FTEs	Headcount		FTEs	Headcount		FTEs	Headcount		FTEs
Salisbury U.	327		93.7	40		10.4	0		0.0	287		83.3
Towson U.	805		360.6	i 357		159.2	i 448		201.4	i 0		0.0
U. Baltimore	57		18.2	i 11		4.9	i 0		0.0	i 46		13.3
U. Maryland <sup>a</sup>	15,543		8,037.4			2,763			1,716.7	8,053		4,412.1
U. Maryland Center for Environmental Science	427		328.9			64			58.7	192		135.1
U. Maryland, Baltimore County	1,888		847.7	i 258		115.0	i 1,630		732.7	i NA		NA
U. Maryland, Eastern Shore	75		51.0			38			20.0	13		13.0
U.S. Naval Academy	115		40.3			115			40.3	0		0.0
Uniformed Services U. of the Health Sciences	439	i	160.9	i 207	i	92.1	i 31	i	10.8	i 201	i	58.0
Private												
Johns Hopkins U. <sup>b</sup>	20,176		13,813.4			10,255			8,246.0	7,764		3,822.0
Loyola U., Maryland	274	i	187.3	i 147	i	108.3	i 79	i	47.6	i 48	i	31.4
Massachusetts												
Public												
U. Massachusetts, Amherst	3,338	i	1,356.5	i 1,189	i	530.3	i 1,282	i	576.4	i 867	i	249.8
U. Massachusetts, Boston	1,333		363.9			365			129.4	763		183.1
U. Massachusetts, Dartmouth	585		347.3			176			162.1	17		17.0
U. Massachusetts, Lowell	1,349		803.2			273			251.7	922		472.0
U. Massachusetts, Medical School	3,118		2,577.8			1,477			1,102.5	1,066		962.0
Private												
Amherst C.	417	i	278.3	i 163	i	120.0	i 131	i	78.5	i 123	i	79.8
Babson C.	191	i	127.7	i 83	i	61.2	i 69	i	41.3	i 39	i	25.2
Bentley U.	191		18.8			159			15.0	30		2.7
Boston C.	992		684.0	i 187		137.4	i 631		433.4	i 174		113.2
Boston U.	5,155		4,711.2			1,935			1,791.5	2,022		1,768.4
Brandeis U.	1,476		1,073.0			367			169.0	176		138.0
Clark U.	117		29.2			44			12.0	57		11.1
Franklin W. Olin C. of Engineering	83		5.2			22			2.1	61		3.1
Harvard U.	7,231		2,897.2			3,421			1,827.2	1,502		580.0
Massachusetts Institute of Technology	9,120		6,466.3	i 7,078		5,202.5	i 1,258		753.9	i 784		509.9
Merrimack C.	87		16.4			46			6.5	38		7.5
MGH Institute of Health Professions	67		43.0			55			38.0	0		0.0
Mount Holyoke C.	65		16.0			56			11.2	3		2.5
New England C. of Optometry	139	i	97.0	i 67	i	49.2	i 29	i	20.1	i 43	i	27.7
Northeastern U.	3,229		2,078.4			590			555.3	1,108		389.3
Smith C.	369		42.9			117			19.4	252		23.5
Suffolk U.	30		9.5			8			2.3	4		0.5

Table 27. Headcount and FTEs of R&D personnel at higher education institutions in the standard form survey population, by state, institutional control, institution, and personnel function: FY 2024

(Number)

State, institutional control, and institution	All personnel functions				Researchers				R&D technicians				R&D support staff			
	Headcount		FTEs		Headcount		FTEs		Headcount		FTEs		Headcount		FTEs	
Tufts U.	3,700		1,132.8		855		477.8		268		177.2		2,577		477.8	
Wellesley C.	304		50.0		67		13.8		21		11.5		216		24.7	
Western New England U.	279	i	184.0	i	109	i	80.1	i	129	i	77.1	i	41	i	26.8	i
Williams C.	201	i	140.0	i	124	i	91.4	i	32	i	19.1	i	45	i	29.5	i
Woods Hole Oceanographic Institution	847		467.1		306		189.6		415		244.3		126		33.2	
Worcester Polytechnic Institute	1,007		314.0		307		139.0		654		156.0		46		19.0	
Michigan																
Public																
Central Michigan U.	579		255.6	i	253		112.8	i	326		142.8	i	0		0.0	i
Eastern Michigan U.	186		81.0		32		4.0		0		0.0		154		77.0	
Ferris State U.	106		10.5		106		10.5		0		0.0		0		0.0	
Grand Valley State U.	314	i	141.6	i	171	i	76.4	i	96	i	51.8	i	47	i	13.4	i
Lake Superior State U.	102		25.2		12		3.8		80		18.1		10		3.3	
Michigan State U.	8,644		3,474.2		2,421		987.2		3,146		1,394.1		3,077		1,092.9	
Michigan Technological U.	1,409		628.1	i	297		132.4	i	1,086		488.2	i	26		7.5	i
Northern Michigan U.	76		16.0		45		12.0		31		4.0		0		0.0	
Oakland U.	501		142.7		189		39.5		302		93.2		10		10.0	
Saginaw Valley State U.	237	i	96.0	i	137	i	60.9	i	39	i	17.5	i	61	i	17.6	i
U. Michigan, Ann Arbor	24,590		9,284.4		8,532		4,733.9		11,201		2,731.0		4,857		1,819.5	
U. Michigan, Dearborn	431		75.9		99		20.4		312		50.3		20		5.2	
U. Michigan, Flint	202		16.0		32		3.3		161		12.4		9		0.3	
Wayne State U.	3,614		2,931.4		899		822.8		1,606		1,459.3		1,109		649.3	
Western Michigan U. and Homer Stryker M.D. School of Medicine	789	i	223.0	i	179	i	67.0	i	130	i	66.7	i	480	i	89.3	i
Private																
Andrews U.	104		13.6		15		5.6		85		6.4		4		1.6	
Calvin U.	113		18.5		56		11.0		51		6.0		6		1.5	
Hope C.	336		211.6	i	63		46.3	i	239		143.2	i	34		22.1	i
Lawrence Technological U.	73		8.6		38		7.6		0		0.0		35		1.0	
U. Detroit Mercy	101		18.9		39		5.7		45		4.5		17		8.7	
Van Andel Research Institute	327		327.0		78		78.0		122		122.0		127		127.0	
Minnesota																
Public																
Minnesota State U., Mankato	367	i	160.2	i	140	i	62.2	i	201	i	90.6	i	26	i	7.4	i
St. Cloud State U.	239		27.1		134		18.8		18		4.4		87		3.9	
U. Minnesota, Duluth	437		74.9		169		36.9		16		0.9		252		37.1	
U. Minnesota, Rochester	22		2.5		12		1.1		0		0.0		10		1.4	
U. Minnesota, Twin Cities	12,224		1,529.9		4,622		779.1		840		71.8		6,762		679.0	

Table 27. Headcount and FTEs of R&D personnel at higher education institutions in the standard form survey population, by state, institutional control, institution, and personnel function: FY 2024

(Number)

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Table 27. Headcount and FTEs of R&D personnel at higher education institutions in the standard form survey population, by state, institutional control, institution, and personnel function: FY 2024

(Number)

	All personnel functions						Researchers						R&D technicians						R&D support staff					
State, institutional control, and institution	Headcount			FTEs			Headcount			FTEs			Headcount			FTEs			Headcount			FTEs		
U. Nebraska, Kearney	183			80.4		i	134			59.7		i	41			18.4		i	8			2.3		
U. Nebraska, Lincoln and Medical Center	9,477			5,418.1			2,581			1,856.9			6,013			3,029.6			883			531.6		
U. Nebraska, Omaha	532	i		237.1	i		194	i		86.6	i		214	i		114.8	i		124	i		35.7		
Private																								
Creighton U.	460	i		307.3	i		198	i		145.2	i		131	i		77.1	i		131	i		85.0		
Nevada																								
Public																								
Desert Research Institute	322			193.8			103			92.7			192			76.8			27			24.3		
Nevada State U.	35			7.9			21			5.0			3			1.5			11			1.4		
U. Nevada, Las Vegas	1,903			872.5			1,009			467.5			396			235.5			498			169.5		
U. Nevada, Reno	3,188			1,227.4			868			415.3			1,176			530.0			1,144			282.1		
Private																								
Roseman U. of Health Sciences	236			70.0			230			66.0			2			1.0			4			3.0		
New Hampshire																								
Public																								
Keene State C.	77			57.8			14			8.2			35			28.7			28			20.9		
Plymouth State U.	61			39.6			18			9.3			15			12.5			28			17.8		
U. New Hampshire	1,222			1,118.0			367			332.0			797			737.0			58			49.0		
Private																								
Dartmouth C. and Dartmouth Hitchcock Medical Center	1,818			1,208.0			1,223			897.0			344			135.0			251			176.0		
New Jersey																								
Public																								
C. New Jersey	86			14.6			46			5.2			31			7.2			9			2.2		
Kean U.	442			87.9			420			74.6			6			1.3			16			12.0		
Montclair State U.	915			297.0			552			149.0			8			4.0			355			144.0		
New Jersey Institute of Technology	1,140			845.0			560			450.0			230			120.0			350			275.0		
Rowan U.	1,189			197.0			295			26.0			823			163.0			71			8.0		
Rutgers, State U. New Jersey, Camden	48			48.0			48			48.0			NA			NA			NA			NA		
Rutgers, State U. New Jersey, New Brunswick	1,408			1,408.0			1,408			1,408.0			NA			NA			NA			NA		
Rutgers, State U. New Jersey, Newark	118			118.0			118			118.0			NA			NA			NA			NA		
Stockton U.	167			9.1			32			1.5			135			7.6			0			0.0		
Private																								
Monmouth U.	48			12.5			16			4.5			32			8.0			0			0.0		
Princeton U.	2,619			1,602.9			1,527			865.6			551			381.5			541			355.8		
Seton Hall U.	110			85.0			35			20.0			13			10.0			62			55.0		
Stevens Institute of Technology	618			293.2			579			281.1			9			2.2			30			9.9		
New Mexico																								

Table 27. Headcount and FTEs of R&D personnel at higher education institutions in the standard form survey population, by state, institutional control, institution, and personnel function: FY 2024

(Number)

State, institutional control, and institution	All personnel functions			Researchers			R&D technicians			R&D support staff		
	Headcount	FTEs		Headcount	FTEs		Headcount	FTEs		Headcount	FTEs	
Public												
New Mexico Highlands U.	89	28.1	i	16	7.1	i	0	0.0		73	21.0	i
New Mexico Institute of Mining and Technology	1,206	445.8	i	292	130.2	i	324	145.6	i	590	170.0	i
New Mexico State U.	2,213	994.0		463	346.0		50	39.0		1,700	609.0	
U. New Mexico	4,316	2,566.1		1,509	630.7		2,034	1,473.9		773	461.5	
New York												
Public												
CUNY, Advanced Science Research Center	171	65.8		158	59.4		1	0.9		12	5.5	
CUNY, Baruch C.	95	14.8		76	9.6		2	1.2		17	4.0	
CUNY, Brooklyn C.	210	43.5		119	22.9		9	4.2		82	16.4	
CUNY, C. Staten Island	121	22.8		88	18.4		1	0.4		32	4.0	
CUNY, City C.	669	237.4		430	147.4		9	3.5		230	86.5	
CUNY, Graduate Center	124	26.5		74	12.5		0	0.0		50	14.0	
CUNY, Graduate School of Public Health and Health Policy	169	74.5		149	65.6		0	0.0		20	8.9	
CUNY, Hunter C.	463	143.9		298	86.1		13	7.3		152	50.5	
CUNY, John Jay C. of Criminal Justice	211	62.3		116	21.9		2	0.3		93	40.1	
CUNY, Lehman C.	108	21.3		55	11.7		6	0.7		47	8.9	
CUNY, New York City C. of Technology	61	6.6		34	5.1		6	0.2		21	1.3	
CUNY, Queens C.	302	95.1		139	43.7		9	4.3		154	47.1	
CUNY, system office	40	10.5		29	4.5		0	0.0		11	6.0	
CUNY, York C.	52	8.6		6	3.1		11	2.0		35	3.5	
SUNY, Binghamton U.	1,906	696.3		978	188.0		803	392.5		125	115.8	
SUNY, Buffalo State U.	71	37.6		19	5.1		8	7.5		44	25.0	
SUNY, C. Brockport	76	32.0		12	7.0		26	7.0		38	18.0	
SUNY, C. of Environmental Science and Forestry	590	211.9		81	22.2		209	108.2		300	81.5	
SUNY, C. of Optometry	21	6.9		18	6.0		1	0.3		2	0.6	
SUNY, C. Plattsburgh	33	8.8		6	2.0		11	5.0		16	1.8	
SUNY, Cobleskill	21	7.1		3	2.0		17	5.0		1	0.1	
SUNY, Downstate Health Sciences U.	203	65.6	i	110	32.0		46	20.1	i	47	13.5	i
SUNY, Geneseo	54	7.4		53	6.9		0	0.0		1	0.5	
SUNY, Oswego	68	9.5		19	3.5		6	1.6		43	4.4	
SUNY, Polytechnic Institute	48	21.1	i	25	11.1	i	21	9.4	i	2	0.6	i
SUNY, Stony Brook U.	3,059	1,477.7		672	319.0		1,730	854.6		657	304.1	
SUNY, U. Albany	1,606	985.6		905	530.6		146	109.2		555	345.8	
SUNY, U. Buffalo	2,773	1,008.0	i	594	264.8	i	769	336.8	i	1,410	406.4	i
SUNY, Upstate Medical U.	428	254.3		206	124.0		204	121.8		18	8.5	
U.S. Military Academy	340	218.9		281	189.2		22	16.3		37	13.4	

Table 27. Headcount and FTEs of R&D personnel at higher education institutions in the standard form survey population, by state, institutional control, institution, and personnel function: FY 2024

(Number)

State, institutional control, and institution	All personnel functions				Researchers				R&D technicians				R&D support staff			
	Headcount		FTEs		Headcount		FTEs		Headcount		FTEs		Headcount		FTEs	
Private																
Albany C. of Pharmacy and Health Sciences	34		4.2		7		0.9		27		3.3		0		0.0	
Albany Medical C.	392	i	257.6	i	143	i	105.4	i	158	i	92.8	i	91	i	59.4	i
Albert Einstein C. of Medicine	1,705		852.0		489		239.0		694		365.0		522		248.0	
Alfred U.	50		16.9		44		13.5		6		3.4		0		0.0	
Barnard C.	114		28.3		23		1.9		24		18.0		67		8.4	
Clarkson U.	581		362.9		121		118.6		403		190.0		57		54.3	
Cold Spring Harbor Laboratory	1,163	i	778.1	i	502	i	368.8	i	396	i	237.1	i	265	i	172.2	i
Colgate U.	298		38.0		28		5.0		270		33.0		0		0.0	
Columbia U. in the City of New York	10,145		8,500.0		5,648		4,901.0		828		785.0		3,669		2,814.0	
Cornell U.	13,733		10,425.5		3,352		2,723.3		5,071		4,143.2		5,310		3,559.0	
Fordham U.	406		266.4	i	28		20.6	i	0		0.0	i	378		245.8	i
Hamilton C.	141		25.6		62		15.1		63		9.1		16		1.4	
Hobart and William Smith Colleges	91		3.9		62		2.0		29		1.9		0		0.0	
Hofstra U.	295		203.1	i	225		165.4	i	52		26.0	i	18		11.7	i
Icahn School of Medicine at Mount Sinai	3,613		2,616.0		1,212		678.0		1,847		1,568.0		554		370.0	
Long Island U.	392		122.0		274		80.8		96		30.6		22		10.6	
Manhattan C.	239	i	162.1	i	128	i	93.7	i	69	i	41.2	i	42	i	27.2	i
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	69		57.0		69		57.0		0		0.0		0		0.0	
New School	602		403.7	i	116		85.3	i	64		44.0	i	422		274.4	i
New York Institute of Technology	181		108.0		50		25.0		43		39.0		88		44.0	
New York Medical C.	168		118.3	i	121		88.9	i	19		11.2	i	28		18.2	i
New York U.	8,798		7,432.3		4,929		4,842.9		721		258.0		3,148		2,331.4	
Pace U.	163		42.7		95		12.2		10		4.0		58		26.5	
Pratt Institute	281	i	192.0	i	151	i	111.0	i	81	i	48.8	i	49	i	32.2	i
Rensselaer Polytechnic Institute	1,252		744.9		398		314.0		765		343.6		89		87.3	
Rochester Institute of Technology	1,252		292.0		593		214.0		635		72.0		24		6.0	
Rockefeller U.	1,002		839.9		506		439.1		404		322.9		92		77.9	
Skidmore C.	53		13.3		25		6.9		28		6.4		0		0.0	
St. Bonaventure U.	55		9.4		10		5.9		26		2.5		19		1.0	
St. John Fisher U.	141		29.5		139		28.7		NA		NA		2		0.8	
St. John's U., New York	177	i	122.7	i	109	i	80.4	i	45	i	27.2	i	23	i	15.1	i
Syracuse U.	2,903		1,080.1		2,333		965.3		42		9.2		528		105.6	
Teachers C., Columbia U.	74		54.4	i	74		54.4	i	NA		NA		NA		NA	
Touro U., New York	397		273.3		79		49.6		171		112.7		147		111.0	
U. Rochester	4,490		2,828.1	i	1,132		832.0	i	3,002		1,764.6	i	356		231.5	i
Union C., Schenectady	284		193.1	i	168		123.5	i	115		68.9	i	1		0.7	i



Table 27. Headcount and FTEs of R&D personnel at higher education institutions in the standard form survey population, by state, institutional control, institution, and personnel function: FY 2024

(Number)

State, institutional control, and institution	All personnel functions			Researchers			R&D technicians			R&D support staff		
	Headcount	FTEs		Headcount	FTEs		Headcount	FTEs		Headcount	FTEs	
Vassar C.	95	64.9	i	57	41.9	i	34	20.4	i	4	2.6	i
Yeshiva U.	71	45.3	i	20	14.7	i	51	30.6	i	0	0.0	i
North Carolina												
Public												
Appalachian State U.	158	127.0		155	125.0		3	2.0		0	0.0	
East Carolina U.	1,983	439.0		810	183.3		856	188.1		317	67.6	
Elizabeth City State U.	9	4.0		9	4.0		NA	NA		NA	NA	
Fayetteville State U.	3	1.9		0	0.0		1	0.8		2	1.1	
North Carolina A&T State U.	869	378.1	i	791	352.6	i	19	8.5	i	59	17.0	i
North Carolina Central U.	318	140.2	i	120	53.5	i	184	82.7	i	14	4.0	i
North Carolina State U.	6,797	6,026.7		3,619	3,319.0		687	615.8		2,491	2,091.9	
U. North Carolina, Asheville	128	62.0		50	24.0		51	25.0		27	13.0	
U. North Carolina, Chapel Hill	11,917	4,789.4	i	4,246	1,892.7	i	4,577	2,004.9	i	3,094	891.8	i
U. North Carolina, Charlotte	1,371	292.8		332	41.2		820	221.1		219	30.5	
U. North Carolina, general administration	31	1.7		18	1.1		0	0.0		13	0.6	
U. North Carolina, Greensboro	1,495	677.7	i	771	343.7	i	504	270.6	i	220	63.4	i
U. North Carolina, Wilmington	842	398.7		337	83.3		187	163.1		318	152.3	
Western Carolina U.	121	73.2		23	4.1		87	62.8		11	6.3	
Winston-Salem State U.	46	20.5	i	44	19.6	i	2	0.9	i	0	0.0	i
Private												
Davidson C.	355	260.3	i	350	257.3	i	5	3.0	i	0	0.0	i
Duke U.	9,877	6,372.1		4,704	2,780.6		3,877	2,844.5		1,296	747.0	
Elon U.	324	223.0	i	158	116.1	i	21	12.6	i	145	94.3	i
High Point U.	271	184.9	i	145	106.9	i	78	47.0	i	48	31.0	i
Johnson C. Smith U.	46	13.0		30	3.5		0	0.0		16	9.5	
Wake Forest U.	2,444	1,610.7	i	789	579.9	i	728	427.9	i	927	602.9	i
North Dakota												
Public												
North Dakota State U.	2,875	1,670.5		362	222.5		1,253	726.0		1,260	722.0	
U. North Dakota	1,591	655.3	i	1,134	505.5	i	290	101.7	i	167	48.1	i
Private												
United Tribes Technical C.	15	10.0		10	7.0		0	0.0		5	3.0	
Ohio												
Public												
Air Force Institute of Technology	408	249.2		197	83.7		154	137.0		57	28.5	
Bowling Green State U.	796	206.5		83	26.0		713	180.5		0	0.0	
Central State U.	158	52.5		29	17.1		5	3.5		124	31.9	

Table 27. Headcount and FTEs of R&D personnel at higher education institutions in the standard form survey population, by state, institutional control, institution, and personnel function: FY 2024

(Number)

State, institutional control, and institution	All personnel functions				Researchers				R&D technicians				R&D support staff			
	Headcount		FTEs		Headcount		FTEs		Headcount		FTEs		Headcount		FTEs	
Cleveland State U.	1,079	i	443.2	i	394	i	175.7	i	434	i	195.1	i	251	i	72.4	i
Kent State U.	1,231		602.1	i	606		270.2	i	610		327.6	i	15		4.3	i
Miami U.	607		270.6	i	607		270.6	i	NA		NA		NA		NA	
Northeast Ohio Medical U.	148		106.6		99		66.7		39		32.8		10		7.1	
Ohio State U.	14,365		6,672.1		3,650		1,584.1		9,950		4,705.8		765		382.2	
Ohio U.	706		148.1		218		51.1		487		96.2		1		0.8	
U. Akron	509		228.3	i	142		63.3	i	367		165.0	i	0		0.0	i
U. Cincinnati	4,890		2,340.0		1,817		914.0		2,626		1,168.0		447		258.0	
U. Toledo	1,216		711.0		525		445.2		501		193.7		190		72.1	
Wright State U.	313		150.0		91		56.3		208		81.5		14		12.2	
Youngstown State U.	111		16.5		20		2.8		91		13.7		0		0.0	
Private																
C. Wooster	56		37.6	i	17		12.5	i	5		3.0	i	34		22.1	i
Case Western Reserve U.	3,455	i	2,268.3	i	1,231	i	904.8	i	1,327	i	780.1	i	897	i	583.4	i
Denison U.	274	i	186.4	i	147	i	107.8	i	79	i	47.4	i	48	i	31.2	i
Heidelberg U.	9		7.5		4		3.2		4		3.5		1		0.8	
John Carroll U.	26		18.5	i	18		13.2	i	1		0.7	i	7		4.6	i
Kenyon C.	42		6.7		18		4.7		24		2.0		0		0.0	
Oberlin C.	106		7.8		18		2.2		88		5.6		0		0.0	
U. Dayton	1,246		954.0		884		620.0		136		131.0		226		203.0	
Oklahoma																
Public																
Langston U.	121		57.2		50		12.3		12		5.6		59		39.3	
Oklahoma State U., Center for Health Sciences	120		63.2		50		13.0		12		8.1		58		42.1	
Oklahoma State U., Stillwater	2,463		1,086.2		1,582		684.1		186		112.3		695		289.8	
U. Central Oklahoma	406		54.0		44		16.5		362		37.5		0		0.0	
U. Oklahoma <sup>C</sup>	3,756		1,478.8	i	862		384.3	i	1,738		761.3	i	1,156		333.2	i
Private																
U. Tulsa	473		210.7		264		110.2		20		10.2		189		90.3	
Oregon																
Public																
Oregon Health and Science U.	4,063		1,614.3	i	1,386		617.9	i	1,501		657.5	i	1,176		338.9	i
Oregon Institute of Technology	164	i	67.5	i	101	i	45.1	i	26	i	11.7	i	37	i	10.7	i
Oregon State U.	5,235		1,581.7		919		288.6		3,353		1,047.3		963		245.8	
Portland State U.	884		527.0		751		447.0		16		14.0		117		66.0	
Southern Oregon U.	270	i	113.0	i	145	i	64.4	i	78	i	35.0	i	47	i	13.6	i
U. Oregon	1,779		610.4		297		70.5		1,378		494.5		104		45.4	

Table 27. Headcount and FTEs of R&D personnel at higher education institutions in the standard form survey population, by state, institutional control, institution, and personnel function: FY 2024

(Number)

State, institutional control, and institution	All personnel functions				Researchers				R&D technicians				R&D support staff			
	Headcount		FTEs		Headcount		FTEs		Headcount		FTEs		Headcount		FTEs	
Private																
Lewis and Clark C.	270		35.8		59		17.5		204		14.3		7		4.0	
National U. of Natural Medicine	128	i	89.1	i	56	i	40.8	i	46	i	31.5	i	26	i	16.8	i
Pacific U.	208	i	148.3	i	128	i	94.1	i	53	i	36.5	i	27	i	17.7	i
Reed C.	153	i	104.6	i	74	i	54.5	i	32	i	19.4	i	47	i	30.7	i
Willamette U.	101		11.1		44		6.3		41		3.3		16		1.5	
Pennsylvania																
Public																
East Stroudsburg U. Pennsylvania	71		24.5		35		8.0		35		16.0		1		0.5	
Indiana U. Pennsylvania	174		52.3		97		14.1		64		27.4		13		10.8	
Pennsylvania State U., Altoona	20		5.0		20		5.0		0		0.0		0		0.0	
Pennsylvania State U., Behrend	64		12.0		64		12.0		0		0.0		0		0.0	
Pennsylvania State U., Harrisburg	56		11.0		56		11.0		0		0.0		0		0.0	
Pennsylvania State U., University Park and Hershey Medical Center	4,677		2,085.0	i	4,677		2,085.0	i	NA		NA		NA		NA	
Temple U.	3,282		2,269.8		625		335.2		991		741.3		1,666		1,193.3	
U. Pittsburgh, Pittsburgh	12,488		7,195.2		2,851		1,658.9		6,590		4,153.7		3,047		1,382.6	
U.S. Army War C.	322	i	127.8	i	155	i	69.0	i	68	i	30.4	i	99	i	28.4	i
West Chester U. Pennsylvania	475		180.7	i	270		120.4	i	5		2.7	i	200		57.6	i
Private																
Arcadia U.	114		20.7		16		4.2		98		16.5		0		0.0	
Bryn Mawr C.	156		33.0		139		30.6		5		0.7		12		1.7	
Bucknell U.	519		354.6	i	221		162.4	i	31		18.6	i	267		173.6	i
Carnegie Mellon U.	4,440		3,164.0	i	2,527		1,857.4	i	1,714		1,177.2	i	199		129.4	i
Dickinson C.	67		14.6		59		10.8		6		3.3		2		0.5	
Drexel U.	2,529		2,209.1		1,463		1,325.9		456		304.4		610		578.8	
Duquesne U.	433		233.5		65		51.5		145		37.0		223		145.0	
Franklin and Marshall C.	273		49.0		20		11.0		253		38.0		0		0.0	
Gettysburg C.	39		3.0		14		2.0		25		1.0		0		0.0	
Haverford C.	49		17.5		30		1.9		19		15.6		0		0.0	
Juniata C.	34		4.8		13		1.9		20		2.8		1		0.1	
Lafayette C.	261		179.9	i	173		127.2	i	88		52.7	i	0		0.0	i
Lehigh U.	1,109		443.9		214		49.7		845		346.6		50		47.6	
Philadelphia C. of Osteopathic Medicine	32		25.9		7		3.0		21		19.4		4		3.5	
Robert Morris U.	137		20.5		133		16.5		0		0.0		4		4.0	
Saint Joseph's U.	179		36.5		79		9.6		56		23.8		44		3.1	
Swarthmore C.	387		37.7		44		7.5		51		9.4		292		20.8	
Thomas Jefferson U.	1,686		709.0		695		209.0		879		475.0		112		25.0	

Table 27. Headcount and FTEs of R&D personnel at higher education institutions in the standard form survey population, by state, institutional control, institution, and personnel function: FY 2024

State, institutional control, and institution	All personnel functions				Researchers				R&D technicians				R&D support staff			
	Headcount		FTEs		Headcount		FTEs		Headcount		FTEs		Headcount		FTEs	
U. Pennsylvania	16,534		12,107.4		1,486		548.2		2,623		2,375.0		12,425		9,184.2	
U. Scranton	274	i	186.4	i	147	i	107.8	i	79	i	47.4	i	48	i	31.2	i
Ursinus C.	22		10.0		15		6.0		4		3.0		3		1.0	
Villanova U.	457		109.3		149		38.7		287		62.0		21		8.6	
Rhode Island																
Public																
Naval War C.	0		0.0		0		0.0		0		0.0		0		0.0	
U. Rhode Island	1,898		575.9		1,593		457.9		19		14.1		286		103.9	
Private																
Brown U.	819		608.0		219		129.0		575		464.0		25		15.0	
Bryant U.	57		7.3		49		4.4		8		2.9		0		0.0	
Providence C.	106		15.0		32		8.0		10		2.0		64		5.0	
Rhode Island School of Design	5		4.5		NA		NA		0		0.0		5		4.5	
Roger Williams U.	143		28.7		49		14.3		88		13.0		6		1.4	
South Carolina																
Public																
C. Charleston	332	i	138.0	i	143	i	63.9	i	121	i	54.4	i	68	i	19.7	i
Citadel Military C. South Carolina	101		17.0		29		6.6		71		10.2		1		0.2	
Clemson U.	2,844		548.5		1,284		8.5		1,400		490.0		160		50.0	
Coastal Carolina U.	178		36.1		56		15.7		122		20.4		0		0.0	
Medical U. South Carolina	2,279	i	862.5	i	1,118	i	498.6	i	195	i	85.4	i	966	i	278.5	i
South Carolina State U.	230		56.0		65		17.0		134		27.0		31		12.0	
U. South Carolina Upstate	119		96.1		62		49.6		1		0.3		56		46.2	
U. South Carolina, Aiken	108		57.7		31		26.3		19		7.9		58		23.5	
U. South Carolina, Beaufort	55		34.1		16		12.4		6		5.0		33		16.7	
U. South Carolina, Columbia	4,234		2,671.7		882		776.7		1,978		1,140.7		1,374		754.3	
Winthrop U.	316		40.0		54		13.0		251		25.0		11		2.0	
Private																
Benedict C.	67		17.0		27		9.0		25		5.0		15		3.0	
Claflin U.	45		19.1		14		2.8		3		0.4		28		15.9	
Furman U.	63		9.3		33		3.6		12		1.5		18		4.2	
South Dakota																
Public																
Black Hills State U.	15		5.6		8		4.0		5		1.0		2		0.6	
Dakota State U.	69		14.3		37		13.0		2		0.3		30		1.0	
South Dakota School of Mines and Technology	269		85.0		73		14.0		193		69.0		3		2.0	
South Dakota State U.	1,299		367.6		285		105.8		979		248.5		35		13.3	

Table 27. Headcount and FTEs of R&D personnel at higher education institutions in the standard form survey population, by state, institutional control, institution, and personnel function: FY 2024

State, institutional control, and institution	All personnel functions				Researchers				R&D technicians				R&D support staff			
	Headcount		FTEs		Headcount		FTEs		Headcount		FTEs		Headcount		FTEs	
U. South Dakota	423		137.5		225		57.4		150		73.1		48		7.0	
Tennessee																
Public																
Austin Peay State U.	149		50.0		77		24.0		50		15.0		22		11.0	
East Tennessee State U.	383		249.0		98		64.0		188		122.0		97		63.0	
Middle Tennessee State U.	258	i	105.6	i	121	i	53.8	i	75	i	33.8	i	62	i	18.0	i
Tennessee State U.	199		40.0		199		40.0		0		0.0		NA		0.0	
Tennessee Technological U.	509		88.2		81		16.0		428		72.2		0		0.0	
U. Memphis	2,299		199.4		150		35.5		NA		NA		2,149		163.9	
U. Tennessee, Chattanooga	339		108.0		139		34.0		175		54.0		25		20.0	
U. Tennessee, Health Science Center	1,237		712.0		576		372.0		564		278.0		97		62.0	
U. Tennessee, Knoxville	5,960		2,939.7		1,893		1,221.0		3,494		1,329.0		573		389.7	
Private																
Fisk U.	144		21.0		144		21.0		0		0.0		0		0.0	
Lincoln Memorial U.	8		1.0		8		1.0		0		0.0		0		0.0	
Lipscomb U.	35		7.0		35		7.0		0		0.0		0		0.0	
Meharry Medical C.	349	i	226.6	i	86	i	63.1	i	113	i	66.3	i	150	i	97.2	i
Vanderbilt U. and Vanderbilt U. Medical Center	8,835	i	5,950.8	i	3,147	i	2,313.4	i	3,394	i	2,145.7	i	2,294	i	1,491.7	i
Texas																
Public																
Lamar U.	356		156.0	i	336		149.8	i	3		1.3	i	17		4.9	i
Midwestern State U.	71		36.0		11		1.4		0		0.0		60		34.6	
Prairie View A&M U.	792		438.6		224		175.6		319		146.6		249		116.4	
Sam Houston State U.	431		179.3	i	344		153.4	i	14		4.9	i	73		21.0	i
Stephen F. Austin State U.	247		105.9	i	110		49.0	i	108		48.5	i	29		8.4	i
Sul Ross State U.	189	i	76.6	i	70	i	31.4	i	67	i	30.3	i	52	i	14.9	i
Tarleton State U.	440		209.0		87		35.0		75		47.0		278		127.0	
Texas A&M International U.	191	i	77.0	i	71	i	31.6	i	68	i	30.4	i	52	i	15.0	i
Texas A&M U., College Station and Health Science Center	15,857		5,443.0		2,601		1,497.0		7,899		3,016.0		5,357		930.0	
Texas A&M U.-Commerce	266		112.6	i	44		19.6	i	180		80.9	i	42		12.1	i
Texas A&M U.-Corpus Christi	862		245.0		231		78.0		133		34.0		498		133.0	
Texas A&M U.-Kingsville	562		438.0		166		136.0		163		89.0		233		213.0	
Texas A&M U.-San Antonio	129		38.9		33		10.0		38		10.2		58		18.7	
Texas Southern U.	149		86.3		67		48.0		45		14.0		37		24.3	
Texas State U.	1,816		909.0		335		168.0		0		0.0		1,481		741.0	
Texas Tech U.	4,254		1,474.7		1,388		643.3		1,878		561.4		988		270.0	
Texas Tech U., Health Sciences Center	537		252.3		193		72.7		232		94.7		112		84.9	

Table 27. Headcount and FTEs of R&D personnel at higher education institutions in the standard form survey population, by state, institutional control, institution, and personnel function: FY 2024

(Number)

State, institutional control, and institution	All personnel functions			Researchers			R&D technicians			R&D support staff		
	Headcount	FTEs		Headcount	FTEs		Headcount	FTEs		Headcount	FTEs	
Texas Tech U., Health Sciences Center, El Paso	194	123.7		42	11.2		101	78.2		51	34.3	
Texas Woman's U.	295	99.1	i	89	39.7	i	0	0.0	i	206	59.4	i
U. Houston	1,310	1,044.8		878	736.7		33	32.5		399	275.6	
U. Houston-Clear Lake	137	33.0		30	18.0		83	7.0		24	8.0	
U. Houston-Downtown	156	45.4		70	15.5		0	0.0		86	29.9	
U. North Texas, Dallas	272	113.9	i	146	64.9	i	78	35.3	i	48	13.7	i
U. North Texas, Denton	2,407	1,007.0		1,035	397.6		1,174	441.1		198	168.3	
U. North Texas, Health Science Center	207	193.0		207	193.0		0	0.0		0	0.0	
U. Texas Health Science Center, Houston	5,888	3,397.3		1,243	683.6		3,379	1,878.8		1,266	834.9	
U. Texas Health Science Center, San Antonio	2,517	1,644.0		651	327.0		1,341	997.0		525	320.0	
U. Texas Health Science Center, Tyler	394	160.2	i	123	54.6	i	110	59.2	i	161	46.4	i
U. Texas M. D. Anderson Cancer Center	8,074	5,612.0		2,076	1,249.0		4,927	3,595.0		1,071	768.0	
U. Texas Medical Branch	1,524	697.7		254	107.8		963	485.7		307	104.2	
U. Texas of the Permian Basin	284	119.2	i	152	67.9	i	82	36.9	i	50	14.4	i
U. Texas Rio Grande Valley	1,997	1,485.1		857	851.2		855	410.3		285	223.6	
U. Texas Southwestern Medical Center	5,826	3,557.9		1,869	1,387.6		2,058	1,192.1		1,899	978.2	
U. Texas, Arlington	2,525	1,433.8		657	640.8		1,058	395.6		810	397.4	
U. Texas, Austin	12,126	4,619.0		2,602	1,134.0		6,279	1,927.0		3,245	1,558.0	
U. Texas, Dallas	2,554	862.1		758	319.9		1,718	487.3		78	54.9	
U. Texas, El Paso	2,287	934.2		853	332.2		690	311.6		744	290.4	
U. Texas, San Antonio	2,001	1,301.0		554	516.5		1,265	620.0		182	164.5	
U. Texas, Tyler	192	28.9		38	6.3		136	18.4		18	4.2	
West Texas A&M U.	267	80.7		72	56.4		63	10.9		132	13.4	
Private												
Abilene Christian U.	167	52.2		62	33.4		4	0.3		101	18.5	
Baylor C. of Medicine	5,139	3,373.5	i	1,831	1,345.6	i	1,974	1,160.2	i	1,334	867.7	i
Baylor U.	1,875	1,061.5		1,260	691.2		24	21.1		591	349.2	
Rice U.	2,831	1,296.1		308	89.6		1,769	1,042.8		754	163.7	
Southern Methodist U.	1,413	338.0		276	77.0		1,097	253.0		40	8.0	
St. Edward's U.	28	16.0		8	6.0		20	10.0		0	0.0	
Texas Christian U.	513	144.5		75	41.0		391	71.5		47	32.0	
Trinity U.	417	91.0		26	4.0		15	10.0		376	77.0	
U. of the Incarnate Word	54	22.3		23	5.4		29	15.6		2	1.3	
Utah												
Public												
Southern Utah U.	111	17.5		35	10.0		76	7.5		0	0.0	
U. Utah	8,461	3,767.0		3,900	2,373.0		4,136	1,172.7		425	221.3	

Table 27. Headcount and FTEs of R&D personnel at higher education institutions in the standard form survey population, by state, institutional control, institution, and personnel function: FY 2024

(Number)

State, institutional control, and institution	All personnel functions				Researchers				R&D technicians				R&D support staff			
	Headcount		FTEs		Headcount		FTEs		Headcount		FTEs		Headcount		FTEs	
Utah State U.	4,760	i	1,934.0	i	1,696	i	756.0	i	1,828	i	821.8	i	1,236	i	356.2	i
Utah Valley U.	106		10.0		106		10.0		NA		NA		NA		NA	
Weber State U.	273	i	114.5	i	146	i	65.2	i	79	i	35.5	i	48	i	13.8	i
Private																
Brigham Young U., Provo	7,610		4,721.2	i	1,183		869.5	i	6,427		3,851.7	i	0		0.0	i
Vermont																
Public																
U. Vermont	2,730		945.6		972		413.6		982		406.7		776		125.3	
Private																
Middlebury C.	120		27.6		35		7.0		12		6.0		73		14.6	
Norwich U.	50		8.9		14		4.6		35		4.1		1		0.2	
Virginia																
Public																
Christopher Newport U.	154		37.0		154		37.0		0		0.0		0		0.0	
Eastern Virginia Medical School	192		108.4		77		24.0		107		79.2		8		5.2	
George Mason U.	3,110		1,391.2		754		673.3		1,312		575.9		1,044		142.0	
James Madison U.	487	i	208.2	i	242	i	107.8	i	184	i	82.9	i	61	i	17.5	i
Norfolk State U.	119		86.5		52		33.5		43		40.5		24		12.5	
Old Dominion U.	1,010		366.0		317		41.0		686		322.9		7		2.1	
Radford U.	65		57.0		65		57.0		0		0.0		0		0.0	
U. of Mary Washington	40		12.9		34		11.9		6		1.0		0		0.0	
U. Virginia's C. Wise	37		14.1	i	15		6.7	i	7		3.1	i	15		4.3	i
U. Virginia, Charlottesville	8,232		3,176.8	i	2,023		901.9	i	3,240		1,419.2	i	2,969		855.7	i
Virginia Commonwealth U.	4,277		1,299.7	i	425		189.5	i	NA		NA		3,852		1,110.2	i
Virginia Military Institute	66		14.0		15		5.0		48		7.0		3		2.0	
Virginia Polytechnic Institute and State U.	8,000	i	3,215.4	i	2,850	i	1,270.7	i	3,073	i	1,346.0	i	2,077	i	598.7	i
Virginia State U.	278	i	110.9	i	170	i	75.7	i	25	i	11.4	i	83	i	23.8	i
William & Mary	1,695	i	731.4	i	333	i	148.4	i	1,181	i	530.7	i	181	i	52.3	i
Private																
Edward Via C. of Osteopathic Medicine	79		41.0		57		25.0		12		8.0		10		8.0	
Hampton U.	106		78.0		51		44.0		0		0.0		55		34.0	
Liberty U.	184	i	123.4	i	123	i	90.5	i	44	i	22.1	i	17	i	10.8	i
Marymount U.	168		22.5		96		14.0		68		7.7		4		0.8	
U. Richmond	152		22.4		43		7.3		93		12.1		16		3.0	
Washington																
Public																
Central Washington U.	120		13.0		43		5.0		71		6.0		6		2.0	



Table 27. Headcount and FTEs of R&D personnel at higher education institutions in the standard form survey population, by state, institutional control, institution, and personnel function: FY 2024

State, institutional control, and institution	All personnel functions				Researchers				R&D technicians				R&D support staff			
	Headcount		FTEs		Headcount		FTEs		Headcount		FTEs		Headcount		FTEs	
Eastern Washington U.	204	i	82.5	i	76	i	33.8	i	72	i	32.6	i	56	i	16.1	i
Northwest Indian C.	174	i	69.1	i	84	i	37.3	i	37	i	16.4	i	53	i	15.4	i
U. Washington, Bothell	79		26.4	i	11		4.9	i	12		5.4	i	56		16.1	i
U. Washington, Seattle	16,458		6,561.4	i	10,189		4,542.3	i	1,417		620.7	i	4,852		1,398.4	i
U. Washington, Tacoma	197		78.9	i	132		58.8	i	9		4.0	i	56		16.1	i
Washington State U.	4,521		1,746.2	i	1,218		543.0	i	1,677		734.6	i	1,626		468.6	i
Western Washington U.	572		91.7		212		27.6		305		60.8		55		3.3	
Private																
Seattle Pacific U.	285	i	194.2	i	153	i	112.3	i	82	i	49.4	i	50	i	32.5	i
Seattle U.	102		75.0	i	102		75.0	i	NA		NA		NA		NA	
U. Puget Sound	270	i	183.8	i	145	i	106.3	i	78	i	46.7	i	47	i	30.8	i
Whitman C.	283		48.7		282		48.4		1		0.3		0		0.0	
West Virginia																
Public																
Marshall U.	475		294.0		94		72.0		324		187.0		57		35.0	
West Virginia School of Osteopathic Medicine	286	i	119.7	i	112	i	49.8	i	132	i	57.7	i	42	i	12.2	i
West Virginia State U.	43		36.0		19		15.0		10		9.0		14		12.0	
West Virginia U.	3,554		1,992.1		1,183		472.5		1,404		895.4		967		624.2	
Wisconsin																
Public																
U. Wisconsin-Eau Claire	417		186.6	i	173		77.1	i	243		109.2	i	1		0.3	i
U. Wisconsin-Green Bay	347	i	150.4	i	191	i	85.1	i	126	i	56.6	i	30	i	8.7	i
U. Wisconsin-La Crosse	211		30.5		71		18.8		135		6.9		5		4.8	
U. Wisconsin-Madison	18,788		7,261.2		4,725		2,321.1		7,047		2,961.2		7,016		1,978.9	
U. Wisconsin-Milwaukee	1,861		1,028.3		273		242.5		1,588		785.8		0		0.0	
U. Wisconsin-Oshkosh	147		27.1		123		19.7		19		5.7		5		1.7	
U. Wisconsin-River Falls	117		52.2	i	26		11.6	i	89		40.0	i	2		0.6	i
U. Wisconsin-Stevens Point	188		63.3	i	22		9.8	i	35		15.7	i	131		37.8	i
U. Wisconsin-Superior	38		18.6		5		4.8		12		9.6		21		4.2	
Private																
Carthage C.	4		1.1		2		0.5		1		0.3		1		0.3	
Marquette U.	1,240		601.0		307		158.0		682		322.0		251		121.0	
Medical C. Wisconsin	2,562		1,275.2		800		334.1		1,536		850.1		226		91.0	
Milwaukee School of Engineering	102		34.3		30		9.1		34		20.9		38		4.3	
Wyoming																
Public																
U. Wyoming	1,673		594.1	i	244		119.5		389		174.9	i	1,040		299.7	i

Table 27. Headcount and FTEs of R&D personnel at higher education institutions in the standard form survey population, by state, institutional control, institution, and personnel function: FY 2024

(Number)

State, institutional control, and institution	All personnel functions				Researchers				R&D technicians				R&D support staff			
	Headcount		FTEs		Headcount		FTEs		Headcount		FTEs		Headcount		FTEs	
Guam																
Public																
U. Guam	346		194.9		36		24.5		214		104.8		96		65.6	
Puerto Rico																
Public																
U. Puerto Rico, Cayey	76		25.0		18		8.0		0		0.0		58		17.0	
U. Puerto Rico, Humacao	42		8.1		20		3.7		12		1.8		10		2.6	
U. Puerto Rico, Mayaguez	295		104.0		218		40.0		0		0.0		77		64.0	
U. Puerto Rico, Medical Sciences Campus	411		158.0		130		56.0		113		49.0		168		53.0	
U. Puerto Rico, Rio Piedras	465		250.0		140		75.0		25		25.0		300		150.0	
Private																
Polytechnic U. Puerto Rico	5		2.5		5		2.5		0		0.0		0		0.0	
U. Ana G. Mendez, Gurabo	9		6.4	i	6		4.4	i	0		0.0	i	3		2.0	i
U. Central del Caribe	103		78.7		23		21.4		52		36.3		28		21.0	
Virgin Islands																
Public																
U. of the Virgin Islands	337	i	125.6	i	70	i	31.2	i	107	i	48.2	i	160	i	46.2	i

i = imputed. NA = not available; data were not provided by institution.

FTE = full-time equivalent.

<sup>a</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>b</sup> Johns Hopkins University includes the Applied Physics Laboratory, with 8,849 personnel and 8,718 FTEs in FY 2024.

<sup>c</sup> The University of Oklahoma includes expenditures from the University of Oklahoma, Tulsa and University of Oklahoma, Norman and Health Science Center campuses. Due to a reorganization, the campuses began reporting as one unit in FY 2024.

**Note(s):**  
FTE R&D personnel are calculated as the total working effort spent on R&D during a specific period divided by the total effort representing a full-time schedule within the same period. This table includes only institutions reporting \$1 million or more in total R&D expenditures in FY 2023. Institutions reporting less than \$1 million in total R&D expenditures in FY 2023 completed a shorter version of the survey form in FY 2024 that did not include this question.

**Source(s):**  
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2024.

## Supplemental Tables

Some tables historically released in the HERD Data Tables Report are now made available only in the Web-based NCSES Table Builder tool. See [table A-23](#) for a list of the reorganized tables. To access the individual tables directly in the Table Builder tool, please use the links below.

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**Higher education R&D expenditures in engineering fields, ranked by FY 2024 total**

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# Technical Notes

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## Survey Overview (FY 2024 Survey Cycle)

*Purpose.* The Higher Education Research and Development (HERD) Survey is the primary source of information on separately accounted-for R&D expenditures within higher education institutions in the United States and outlying areas.

*Data collection authority.* The information is solicited under the authority of the National Science Foundation Act of 1950, as amended, and the America COMPETES Reauthorization Act of 2010. The Office of Management and Budget control number is 3145-0100, with an expiration date of 31 July 2025. NCSES has reviewed this product for unauthorized disclosure of confidential information and approved its release (NCSES-DRN25-060).

*Survey contractor.* ICF.

*Survey sponsor.* The HERD Survey is sponsored by the National Center for Science and Engineering Statistics (NCSES) within the U.S. National Science Foundation.

## Key Survey Information

*Frequency.* Annual.

*Initial survey year.* In 2010, the HERD Survey replaced a previous annual collection, the Survey of Research and Development Expenditures at Universities and Colleges (Academic R&D Expenditures Survey), which was conducted from FY 1972 through FY 2009.

*Reference period.* The academic fiscal year ending in 2024; for most institutions, this was 1 July 2023 to 30 June 2024.

*Response unit.* Establishment; U.S. academic institutions reporting at least \$150,000 in R&D expenditures in FY 2023.

*Sample or census.* Census.

*Population size.* A total of 925 institutions.

*Sample size.* The survey was a census of all known eligible universities and colleges.

## Survey Design

*Target population.* Public and private nonprofit postsecondary institutions in the United States, Guam, Puerto Rico, and the U.S. Virgin Islands that granted a bachelor's degree or higher in any field; expended at least \$150,000 in separately accounted-for R&D in FY 2024; and were geographically separate campuses headed by a president, chancellor, or equivalent. A list of all accredited, degree-granting institutions in the United States (the *Higher Education Directory*) was obtained from Higher Education Publications (HEP). More information about HEP and its sources can be found at <https://hepinc.com/about/>.

The survey population was reviewed before data collection began to ensure that each institutional classification was accurate. Characteristics of the schools were reviewed before and during the survey to determine whether changes had occurred (e.g., name; highest degree granted; school openings, closings, or mergers). [Table A-1](#) shows all institution name changes or mergers between the FY 2023 and FY 2024 surveys.

After data collection closed, institutions were reviewed to verify that only those reporting at least \$150,000 in separately accounted-for R&D were included in reporting for the target population.

*Sampling frame.* The frame for the FY 2024 HERD Survey included (1) all institutions considered in scope for the FY 2023 survey, (2) institutions that granted a bachelor's degree or higher and reported an amount greater than \$0 for research on the Integrated Postsecondary Education Data System (IPEDS) 2022 Finance Survey, (3) all U.S. service institutions that granted a bachelor's degree or higher and were not already part of the HERD Survey population, and (4) institutions that granted doctoral degrees but did not report to IPEDS and were not already part of the HERD Survey population. The information in the Higher Education Directory was used to locate institutions meeting the conditions listed in 3 and 4. When FY 2023 R&D expenditures for the institutions were not known or confirmation was needed to ensure the reported IPEDS R&D total met HERD guidance, institutions in the frame were sent a brief questionnaire asking whether the institution had R&D expenditures during FY 2023 and FY 2024 and whether those expenditures were less than \$150,000, were \$150,000 to \$999,999, or were \$1 million or more.

The population review screener was sent to 133 institutions. A total of 31 institutions were added to the survey population during the population review. Two other institutions were added when representatives of university systems contacted data collection staff about a campus that newly qualified for the survey. During data collection, 19 institutions were removed from the population after they indicated that their R&D expenditures were less than \$150,000 for FY 2024, or that they did not qualify for the survey for another reason. Of the 925 institutions surveyed, 18 completed the survey but reported total R&D expenditures of less than \$150,000. These institutions were excluded from the population, and their data are not included in the FY 2024 survey totals. The total and federally funded R&D expenditures for these 18 institutions are listed in [table A-2](#). After accounting for these additions and subtractions, the number of academic institutions in the final population increased from 911 in FY 2023 to 925 in FY 2024 ([table A-3](#)).

*Sample design.* The FY 1997 survey was the last one conducted as a sample survey. Since FY 1998, the survey has been a census of all known eligible universities and colleges.

## Data Collection and Processing Methods

*Data collection.* The FY 2024 questionnaires were sent by e-mail in November 2024. Respondents could choose to download the questionnaire and submit it via e-mail to the HERD support desk or use a Web-based data collection system. Every effort was made to maintain close contact with respondents to preserve both the consistency and continuity of the resulting data. Survey data reports for each institution were available in two formats on the survey website throughout the data collection to help respondents identify their data trends and anomalies. The first format showed comparisons between the current and 2 prior years of data and noted any substantive disparities and narratives provided by respondents to explain those disparities. The second format was a data file including all data reported in the previous 5 years. Questionnaires were carefully examined for completeness upon receipt. Respondents were sent personalized e-mail messages asking them to provide any necessary revisions before the final processing and tabulation of data. These e-mail messages included a link to the HERD Survey Web-based data collection system, allowing respondents to view and correct their data online.

Respondents were asked to explain significant differences between current year reporting and established patterns of reporting verified for prior years. They were encouraged to correct prior year data, if necessary. When respondents updated or amended figures from past years, NCSSES made corresponding changes to trend data included in the products released from the FY 2024 survey. For accurate historical data, use only the most recently released data.

*Mode.* Respondents could choose to submit a questionnaire downloaded from the Web or use the Web-based questionnaire. Almost all institutions submitted data using the Web-based questionnaire; 8 institutions e-mailed their data as an attachment to the survey contractor.



*Response rates.* By the survey's closing date in July 2025, forms had been received from 881 universities and colleges out of a population of 925—a response rate of 95.2%. Responses were received from 97.0% of all doctorate-granting institutions. The R&D expenditures reported by these doctoral institutions constituted 99.1% of the estimated national R&D expenditures for FY 2024. [Table A-4](#) displays a detailed breakdown of response rates by survey form and highest degree granted, and [table A-5](#) displays a breakdown of response rates for each survey question.

*Data editing.* The HERD Survey was subject to very little editing. Respondents were contacted and asked to resolve possible self-reporting issues themselves. Questionnaires were carefully examined by survey staff upon receipt. Reviews focused on unexplained missing data, expenditures that were outliers compared to those of peer institutions, and explanations provided for changes in reporting patterns. If additional explanations or data revisions were needed, respondents were sent personalized e-mail messages asking them to provide any necessary revisions before the final processing and tabulation of data.

*Imputation.* Missing values were imputed based on the previous year's data and the reported data of peer institutions in the current cycle. For the 40 institutions that had not responded by the closing date of the survey and had been included in the FY 2023 HERD Survey population, R&D expenditures were imputed by applying inflator and deflator factors to the prior year's key totals. The key totals for FY 2024 included total R&D expenditures, federal R&D expenditures, expenditures received as a subrecipient from higher education sources, expenditures received as a subrecipient from non-higher education sources, expenditures passed through to higher education entities, and expenditures passed through to non-higher education entities. Imputation factors were ratios derived from the 2-year trend data of responding institutions with similar characteristics, including highest degree granted, type of institutional control (public or private), and level of total R&D expenditures. Other values that were not identified as key totals were imputed by applying ratios derived from the institution's previous year data.

For four institutions that were new to the survey population, no previous year data were available. For this institution, total R&D expenditures were estimated based on the institution's responses to the population review screener. Other values were then imputed as a proportion of total R&D expenditures based on the data of institutions with similar characteristics. Data for partial nonresponse were imputed using similar techniques.

[Table A-6](#) through [table A-20](#) present imputed amounts for each applicable survey variable. The dollar amount imputed is displayed, along with the percentage it represents of the national estimate for universities and colleges for a variable. The imputed total R&D was \$460.1 million, or 0.4%, of the \$117.7 billion in total R&D expenditures ([table A-6](#)).

Several surveyed institutions have responded intermittently in past years. For years in which no response was received, data have been imputed as previously described. Although the imputation algorithm accurately reflects national trends, it cannot account for specific trends at individual institutions. For this reason, a re-imputation of institutional data for prior years is also performed. For each institution, previously imputed values from the HERD Survey (FYs 2010–23) were recomputed to ensure that the imputed data are consistent with reporting patterns from the FY 2024 survey. These procedures result in much more consistent reporting trends for individual institutions but have little effect on aggregate figures reflecting national totals. In the data tables, the letter "i" is used to identify imputed data.

R&D expenditures from unspecified federal agencies (Question 10) and capitalization thresholds for software and equipment (Question 13) were not imputed. Response summaries for these questions can be found in [table A-21](#) and [table A-22](#).

*Weighting.* Survey data were not weighted.

*Variance estimation.* No variance estimation techniques were used.

## Survey Quality Measures

*Sampling error.* Because the FY 2024 survey was distributed to all institutions in the universe, there was no sampling error.

*Coverage error.* Coverage error of large research institutions is minimal because of comprehensive lists. These institutions are easily identified using the NCSES Survey of Federal Science and Engineering Support to Universities, Colleges, and Nonprofit Institutions. However, institutions with smaller amounts of R&D expenditures have been more difficult to identify because they often do not receive federal funding for science and engineering (S&E) R&D.

*Nonresponse error.* Forty-four universities and colleges did not respond in FY 2024, out of a total of 925 eligible institutions, for a nonresponse rate of 4.8%. [Table A-4](#) displays a detailed breakdown of response rates by survey population and highest degree granted.

Nonresponse rates were less than 5.0% for all but three questions. Question 6, R&D expenditures by type of R&D (basic research, applied research, and experimental development); Question 15, R&D personnel headcount; and Question 16, R&D full-time equivalents (FTEs) had nonresponse rates of 6.5%, 10.2%, and 22.9%, respectively. [Table A-5](#) displays a breakdown of response rates for each question in each of the two surveys. See section “Imputation” for mitigation of item nonresponses. [Table A-6](#) through [table A-20](#) present imputed amounts for each applicable survey variable.

*Measurement error.* The most likely source of measurement error is institutional records containing categories different from those on the survey. For example, institutions were asked to report all R&D expenditures by field. The NCSES-designed fields do not always translate to an institution’s departmental structure, and adjustments must be made by the institution to complete the survey. Fields were revised for the FY 2016 survey to better reflect the R&D currently being conducted at universities and colleges and make HERD Survey fields more consistent with those used by other NCSES surveys as well as with the National Center for Education Statistics Classification of Instructional Programs (CIP) codes. Details of this change are included in the methodology report and technical notes for the FY 2016 survey. Minor revisions were also made in FY 2020.

Another source of error is the survey’s category of institutionally funded research. The survey requests that institutions report discretionary internal funds used for research. NCSES discovered through debriefings conducted at the conclusion of the FY 2010 survey that there were varying definitions of what should be included on the HERD Survey as institutionally funded research. Some institutions included all expenditures from separate accounts designated for research; others included only internal R&D projects that are competitively awarded and have detailed budgets. A workshop was held in summer 2012 to discuss these differences in definitional interpretation. Based on the findings from the workshop, the FY 2012 survey was modified to clarify that all expenditures designated for research can be included in this category. This includes expenditures for organized research and expenditures of other funds designated for research but not categorized as organized research. A checklist question (Question 1.1) was also added to encourage the inclusion of all eligible expenditures and to determine the full extent of the variations in reporting across institutions. This question has been on the survey since FY 2012. An analysis of Question 1.1 responses from FY 2024 indicated that some institutions still could not report institutionally funded research that was not organized research (6.2% could not report startup packages, bridge funding, or seed funding and 7.0% were unable to identify other departmental funds designated for research). Therefore, survey totals are missing expenditures for R&D that come from multipurpose accounts, and as such, they represent an undercount of the total amount of internal discretionary funding that institutions make available to conduct R&D.

The reporting of unrecovered indirect costs is another known source of error. The survey requests that the total amount of indirect costs associated with a research grant or contract be calculated and reported, including costs that were not reimbursed by the external funding source. The unrecovered indirect cost is calculated by multiplying the institution’s negotiated indirect cost rate by the corresponding base and then subtracting the actual indirect cost recovery, preferably on a project-by-project basis. In FY 2024, 5.2% of respondents reported unrecovered indirect costs as unavailable. Respondents who were unable to provide values were asked to provide information on their nonresponse. Based on the collected information, survey guidance is revised to encourage response.

The reporting of expenditures from projects that are not R&D is another possible source of error. The R&D in the HERD Survey excludes public service grants, outreach programs, curriculum development, or training grants that do not support work on research projects. As part of a federal government effort to reduce administrative burdens associated with research grants and contracts, agencies began adopting Research Terms and Conditions (RTC) to be consistent with Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards issued by the U.S. Office of Management and Budget (OMB) in the Federal Register [80 FR 61849, October 14, 2015]. In these RTCs, agencies employed a broader definition of research, resulting in many institutions reporting projects as research that do not match HERD Survey definitions. Additionally, in recent years R&D expenditure data has been used more frequently in university and college benchmarking, which may encourage institutions to employ broader definitions of research than those provided on the survey.

It should also be noted that because institutions were asked to include funds passed through to higher education institutions as well as subrecipient funding from higher education institutions, there is double counting included in national and group totals. For example, Institution A's survey included the \$2 million passed through to Institution B, and Institution B's survey also included the \$2 million in subrecipient funding that it received from Institution A. Overall, institutions reported \$6.0 billion in expenditures from subrecipient funding received from other universities in FY 2024 and \$5.8 billion in funds passed through to higher education subrecipients in FY 2024. Adjustments are made accordingly to R&D totals presented in the NCSSES [National Patterns of R&D Resources](#).

## Data Comparability

Annual data are available for FYs 1972–2024. When the review for consistency between each year's data and submissions in prior years reveals discrepancies, it is sometimes necessary to modify prior years' unreported data. This is especially likely to affect trends for certain institutions that fail to report every year because current year data are used to impute prior year data. For accurate historical data, use only the most recently released data tables. Individuals wishing to analyze trends other than those in the most recent data tables are encouraged to contact NCSSES for more information about comparability of data over time.

*Changes in survey coverage and population.* Before FY 2010, the population included only institutions with R&D expenditures and degree programs in S&E fields. Institutions that performed R&D in only non-S&E fields were excluded from the population. Although not a change in the coverage or population, each campus headed by a campus-level president, chancellor, or equivalent began completing a separate survey in 2010 rather than combining its response with the responses of other campuses in the university system. As a result, the overall number of academic institutions in the population increased from 711 in FY 2009 to 742 in FY 2010.

To compare HERD Survey data across university systems by aggregating member campuses, [table 5](#) shows all institutions in the FY 2024 population by state, institutional control, and system.

Universities and colleges can merge or separate, possibly resulting in large changes in data from previous years.

- For FY 2015, the Indiana University School of Medicine (IUSM) reporting line was changed from the Chancellor of the Indiana University–Purdue University, Indianapolis (IUPUI) campus to the President of Indiana University. As such, the research expenditures for IUSM are now included in the Indiana University–Bloomington figures, resulting in an increase in total R&D expenditures of approximately \$280 million for this campus. IUPUI total R&D expenditures decreased from \$324 million in FY 2014 to \$56 million in FY 2015.
- In September 2015, Yeshiva University relinquished control of Albert Einstein College of Medicine to Montefiore Health System. As a result, FY 2016 data for Yeshiva University included only 2 months (July–August 2015) of R&D expenditures from the college of medicine. Albert Einstein College of Medicine reported separately for its entire FY 2016 (January–December 2016). Because of this change, FY 2016 research expenditures for Yeshiva University decreased by \$260 million. For FY 2017, Yeshiva University included no expenditures from the college of medicine, and total research expenditures decreased by \$43 million.

- In 2016, the Maryland General Assembly approved legislation to create a strategic partnership between University of Maryland (UMD) College Park and UMD Baltimore. The two schools began reporting as one unit, University of Maryland, in FY 2019. In FY 2018, UMD Baltimore reported over \$475 million in total R&D expenditures, and UMD College Park reported over \$540 million in total R&D expenditures. In FY 2019, the new combined institution reported \$1,096 million in total R&D expenditures.
- In 2019, University of Tennessee reorganized University of Tennessee, Knoxville, Institute of Agriculture, and University of Tennessee, Knoxville. The two schools began reporting as one unit, University of Tennessee, Knoxville, in FY 2020. In FY 2019, University of Tennessee, Institute of Agriculture reported over \$71 million in total R&D expenditures, and University of Tennessee, Knoxville reported over \$240 million in total R&D expenditures. In FY 2020, the new combined institution reported \$320 million in total R&D expenditures.
- In 2021, the University of South Florida consolidated its three separate institutions, University of South Florida, Tampa; University of South Florida, St. Petersburg; and University of South Florida, Sarasota-Manatee, into one, singularly accredited university. The three schools began reporting as one unit, University of South Florida, in FY 2021. In FY 2020, University of South Florida, Tampa reported over \$333 million in total R&D expenditures; University of South Florida, St. Petersburg reported over \$18 million in total R&D expenditures; and University of South Florida, Sarasota-Manatee reported over \$2 million in total R&D expenditures. In FY 2021, the new combined institution reported over \$405 million in total R&D expenditures.
- In FY 2021, the University of Colorado Denver and Anschutz Medical Campus began reporting to the survey separately. Prior to FY 2021, the two campuses reported as one unit. In FY 2020, the combined unit reported over \$554 million in total R&D expenditures. In FY 2021, University of Colorado Anschutz Medical Campus reported over \$562 million in total R&D expenditures, and University of Colorado Denver reported over \$18 million in total R&D expenditures.
- In FY 2023, the University of Nebraska Lincoln, Medical Center, and central administration began reporting as one unit, University of Nebraska, Lincoln and Medical Center. In FY 2022, the University of Nebraska, Lincoln reported over \$340 million in total R&D expenditures, University of Nebraska, Medical Center reported over \$205 million in total R&D expenditures, and the University of Nebraska central administration reported over \$25 million in total R&D expenditures. In FY 2023, the new combined institution reported over \$617 million in total R&D expenditures.
- In FY 2024, the University of Oklahoma, Tulsa and the University of Oklahoma, Norman and Health Science Center began reporting as one unit, the University of Oklahoma. In FY 2023, the University of Oklahoma, Tulsa reported over \$5.8 million in total R&D expenditures, and the University of Oklahoma, Norman and Health Science Center reported over \$436 million in total R&D expenditures. In FY 2024, the new combined institution reported over \$474 million in total R&D expenditures.

*Changes in questionnaire.* Tables include data from the Academic R&D Expenditures Survey (FYs 1972–2009) and the HERD Survey (FYs 2010–20). Analysts should be cautious when examining trend data. Although many variables are similar across the two surveys because of clarification of which funds are to be included in the definition of R&D and the inclusion of non-S&E expenditures, exact comparisons may be misleading. In prior years, the Academic R&D Expenditures Survey collected expenditures for S&E and non-S&E fields separately. Institutions were not always able to provide non-S&E expenditures, and those data were not imputed previously. Also, revisions to the instructions on what types of activities are included as R&D in 2010 may have influenced reported values to varying degrees, depending on the number of clinical trials and training grants at an institution. Specific changes are described below:

- For the FY 2012 data collection, NCSSES modified the survey instructions to clarify what types of institutionally funded activities should be included in reported data. The instructions explained that all expenditures for R&D from an institution's current operating funds that are separately accounted-for should be reported. This includes expenditures separately budgeted for organized research and expenditures of other funds designated for research but not categorized as organized research. The instructions also specified that funds from an institution's 501(c)3 foundation should be reported under institutionally financed research.

- For the FY 2013 collection, the instructions were revised to clarify that funds from foreign and U.S. universities and colleges should be reported under All other sources (Question 1, row f). The instructions also specified that gifts designated by donors for research should be included in Question 1, row f.
- Several changes were made to the FY 2016 questionnaire:
  - Question 16 on the FY 2015 questionnaire, regarding the number of postdocs paid from R&D expenditures, was removed from the survey. Question 2, regarding foreign funding of R&D, was expanded to identify sources of foreign funding. The question now collects R&D expenditures funded by foreign governments, businesses, nonprofit organizations, and higher education (see *foreign sources* in the “Definitions” section for additional information).
  - Questions 9, 11, and 14 include revisions to the fields of R&D that better reflect the R&D currently being conducted at universities and colleges. The revisions make the HERD Survey fields more consistent with those used by other NCSSES surveys as well as with the CIP codes.
- For the FY 2017 collection, the instructions were revised to clarify that funding from federally funded R&D centers (FFRDCs) should be reported as direct federal funding from the FFRDC’s sponsoring agency.
- For the FY 2018 collection, the instructions were revised to clarify that expenditures for institution research administration and support (e.g., office of sponsored programs) should be excluded from the institutionally financed research totals.
- Several changes were made to the FY 2020 questionnaire:
  - Question 15, which asked for a headcount of research personnel, was revised to ask for a headcount by three R&D functions (see “Definitions” for more information), as well as sex, citizenship status, and education level, for those functioning as researchers.
  - Question 16, which asked for the full-time equivalents (FTEs) by three R&D functions, was added to the survey.
  - Institutions were given guidance to include throughout the survey equipment-only R&D awards, such as Major Research Instrumentation grants.
  - Questions 9, 11, and 14 include revisions to the fields of R&D that better reflect the R&D currently being conducted at universities and colleges. The revisions make the HERD Survey fields more consistent with those used by other NCSSES surveys.

*Changes in reporting procedures or classification.* To reduce the burden for institutions with minimal amounts of R&D expenditures, NCSSES introduced a shorter version of the HERD Survey, beginning with the FY 2012 collection. The short-form survey includes four core questions. For the FY 2024 cycle, the short-form population included 244 institutions that reported R&D expenditures between \$150,000 and \$1 million during FY 2023. The remainder of the institutions (681) received the full version of the survey.

Short-form survey data for FYs 2012–24 appear only in those tables that specify in their title that the data presented include data from the short-form version of the survey. Data from the short-form survey population are included in the year totals prior to FY 2012, aggregated under “all other surveyed institutions.” The total FY 2024 R&D expenditures reported by institutions in the short-form survey population (\$164.5 million) represent 0.1% of the expenditures reported by all institutions (\$117.7 billion).

## Definitions

*Clinical trials.* Research studies designed to answer specific questions about the effects of drugs, vaccines, medical devices, tests, treatments, or other therapies for patients. Clinical trials are used to determine safety and effectiveness. Includes Phase I, Phase II, and Phase III clinical trials with human patients but excludes Phase IV clinical trials.

*Contracts.* Legal commitments in which a good or service was provided by the reporting institution and benefited the sponsor. The sponsor specified the deliverables and gained the rights to the results.

*Federal agency.* Any agency of the U.S. government. Expenditures were reported by six specific agency funding sources (the Department of Agriculture; Department of Defense; Department of Energy; Department of Health and Human Services, including the National Institutes of Health; National Aeronautics and Space Administration; and National Science Foundation). Any expenditures funded by other federal agencies were reported under Other. The names of agencies included in the Other category are also requested.

*Fields of R&D.* A list of the 40 fields of R&D reported on can be found on the survey questionnaire. In the data tables, the fields are grouped into 10 major areas: computer and information sciences; engineering; geosciences, atmospheric sciences, and ocean sciences; life sciences; mathematics and statistics; physical sciences; psychology; social sciences; other sciences; and non-science and engineering.

*Fiscal year.* Institution's financial year.

*Foreign sources:*

- *Foreign government.* All levels of foreign government, including national, regional, municipal, or other local government.
- *Business.* Foreign for-profit organizations. Projects sponsored by a U.S. location of a foreign company were not considered foreign. Funds from a company's nonprofit foundation were not reported here; they were reported under Nonprofit organizations.
- *Nonprofit organizations.* Foreign nonprofit foundations and organizations, except higher education institutions. Funds from foreign universities were reported under Higher education.
- *Higher education.* Foreign colleges and universities and units owned, operated, and controlled by such institutions.
- *All other sources.* International governmental organizations located in the United States, such as the United Nations, the World Bank, and the International Monetary Fund, and all other entities sending funds to the United States from a location outside the United States and its territories.

*Full-time equivalents (FTEs).* Calculated as the total working effort spent on research during a specific period divided by the total effort representing a full-time schedule within the same period.

*Medical schools.* A medical school awards MD or DO degrees. Expenditures from projects assigned to the medical school or to research centers that were organizationally part of the medical school were included.

*Pass-through entity.* Organizations that pass through grant or contract funds to subrecipient organizations. Vendor relationships were not included.

*Research and development (R&D).* R&D activity is creative and systematic work undertaken to increase the stock of knowledge—including knowledge of humankind, culture, and society—and to devise new applications of available knowledge. R&D covers three activities: basic research, applied research, and experimental development. R&D does not include public service or outreach programs, curriculum development (unless included as part of an overall research project), or non-research training grants. R&D as measured on this survey does not include capital projects (i.e., construction or renovation of research facilities).

*R&D expenditures.* Expenditures for R&D activities from the institution's current operating funds that were separately accounted-for. For the purposes of the survey, R&D includes expenditures for organized research as defined by 2 CFR 220 Part 200 Appendix III and expenditures from funds designated for research. Expenditures came from internal or external funding and included recovered and unrecovered indirect costs. Funds passed through to subrecipient organizations were also included. R&D was excluded if it was conducted by university faculty or staff at outside institutions and was not accounted-for in the reporting institution's financial records.

*R&D functions:*

- *Researchers.* Professionals engaged in the conception or creation of new knowledge, products, processes, methods, and systems and also in the management of the projects concerned. Researchers contribute more to the creative aspects of R&D, whereas technicians provide technical support.
- *R&D technicians.* Persons whose main tasks require technical knowledge and experience in one or more fields of science or engineering, but who contribute to R&D by performing technical tasks such as computer programming, data analysis, ensuring accurate testing, operating lab equipment, and preparing and processing samples under the supervision of researchers.
- *R&D support staff.* Employees not directly involved with the conduct of a research project but support the researchers and technicians. These employees might include clerical staff, financial and personnel administrators, report writers, patent agents, safety trainers, equipment specialists, and other related employees.

*Sources of funds:*

- *U.S. federal government.* Any agency of the U.S. government. Federal funds that were passed through to the reporting institution from another institution were included.
- *State and local government.* Any state, county, municipality, or other local government entity in the United States, including state health agencies. State funds that supported R&D at agricultural and other experiment stations were included. Public institutions reported state appropriations restricted for R&D activities in this category.
- *Business.* Domestic or foreign for-profit organizations. Funds from a company's nonprofit foundation were not reported here; they were reported under Nonprofit organizations.
- *Nonprofit organizations.* Domestic or foreign nonprofit foundations and organizations, except universities and colleges. Funds from the reporting institution's 501(c)3 foundation were reported under Institutional funds. Funds from other universities and colleges were reported under All other sources.
- *Institutional funds.* Includes institutionally financed research (all R&D funded by the institution from accounts that are only used for research, excluding institution research administration and support), cost sharing (committed), and unrecovered indirect costs (the portion of indirect costs associated with a sponsored project that was not reimbursed by the sponsor in accordance with the institution's negotiated indirect cost rate).
- *All other sources.* Sources not reported in other categories, such as funds from foreign governments, foreign or U.S. universities, and gifts designated by the donors for research.

*Subrecipient.* The subrecipient for an award carries out the work but receives the funds from a pass-through entity rather than directly from the original funding source. Subrecipients tend to be the coauthors of publications, writers of technical reports discussing findings, inventors, and similar. Vendor relationships were not included.

*Type of cost.* R&D expenditures were reported in the following categories:

- *Salaries, wages, and fringe benefits.* Includes compensation for all R&D personnel whether full time or part time; temporary or permanent; including salaries, wages, and fringe benefits paid from institution funds and from external support.



- *Software purchases, noncapitalized and capitalized.* Includes payments for all software—both purchases of software packages and license fees for systems.
- *Capitalized equipment.* Includes payments for movable equipment exceeding the institution's capitalization threshold, including ancillary costs such as delivery and setup.
- *Pass-throughs to other organizations.* See the definition for subrecipient.
- *Other direct costs.* Other costs that do not fit into one of the above categories, including (but not limited to) travel, tuition waivers, services such as consulting, computer usage fees, and supplies.
- *Indirect costs.* Includes both recovered and unrecovered indirect costs.

*Type of R&D.* R&D expenditures were reported in the following categories:

- *Basic research.* Experimental or theoretical work undertaken primarily to acquire new knowledge of the underlying foundations of phenomena and observable facts, without any particular application or use in view.
- *Applied research.* Original investigation undertaken to acquire new knowledge. It is directed primarily toward a specific, practical aim or objective.
- *Experimental development.* Systematic work, drawing on knowledge gained from research and practical experience and producing additional knowledge, which is directed toward producing new products or processes or toward improving existing products or processes.

## Technical Tables

Table	Title
A-1	Institution name changes between FY 2023 and FY 2024 Higher Education Research and Development Survey
A-2	Total and federally financed higher education R&D expenditures at surveyed institutions reporting less than \$150,000 in separately accounted-for R&D expenditures: FY 2024
A-3	Institutions surveyed for the Higher Education Research and Development Survey, by highest degree granted and survey population: FYs 2019–24

### Response rates: FY 2024

Table	Title
A-4	Response rates for the Higher Education Research and Development Survey, by survey population, highest degree granted, and institutional control: FY 2024
A-5	Response rates for the Higher Education Research and Development Survey, by survey form and question: FY 2024

### Imputed amounts for higher education R&D expenditures: FY 2024

Table	Title
A-6	Imputed amounts for total higher education R&D expenditures, by survey population and highest degree granted: FY 2024
A-7	Imputed amounts for total higher education R&D expenditures, by survey population and source of funds: FY 2024
A-8	Imputed amounts for higher education R&D expenditures from foreign sources, by source of funds: FY 2024
A-9	Imputed amounts for externally financed higher education R&D expenditures, by type of agreement: FY 2024
A-10	Imputed amounts for higher education R&D expenditures in a medical school, by institutional control: FY 2024
A-11	Imputed amounts for higher education R&D expenditures in clinical trials, by source of funds: FY 2024

### Imputed amounts for federally funded higher education R&D expenditures: FY 2024

Table	Title
A-12	Imputed amounts for total and federally financed higher education R&D expenditures, by type of R&D: FY 2024
A-13	Imputed amounts for total and federally financed higher education R&D expenditures received as a subrecipient, by survey population and type of pass-through entity: FY 2024
A-14	Imputed amounts for total and federally financed higher education R&D expenditures passed through, by survey population and type of subrecipient: FY 2024
A-15	Imputed amounts for total and federally financed higher education R&D expenditures at institutions in the standard form population, by R&D field: FY 2024
A-16	Imputed amounts for total and federally financed higher education R&D expenditures at institutions in the short form population, by R&D field: FY 2024
A-17	Imputed amounts for higher education R&D expenditures, by type of cost: FY 2024

A-18	Imputed amounts for total and federally financed higher education R&D equipment expenditures, by R&D field: FY 2024
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Imputed amounts for headcount and full-time equivalents (FTEs) of R&D personnel: FY 2024

Table	Title
A-19	Imputed amounts for headcount of R&D personnel, by sex and personnel function: FY 2024
A-20	Imputed amounts for FTEs, by personnel function: FY 2024

Response details: FY 2024

Table	Title
A-21	Federally financed higher education R&D expenditures from federal agencies not specified in Question 9: FY 2024
A-22	Response summary for Question 13, capitalization thresholds, by highest degree granted, institutional control, and capitalization threshold: FY 2024

Crosswalk

Table	Title
A-23	Higher Education Research and Development Survey data table crosswalk: FY 2023 vs. FY 2024

Table A-1. Institution name changes between FY 2023 and FY 2024 Higher Education Research and Development Survey

(Institution name)

FY 2023 survey	FY 2024 survey
Nevada State C.	Nevada State U.
Multiple campuses	U. Oklahoma
U. Oklahoma, Norman and Health Science Center	
U. Oklahoma, Tulsa	

Source(s):  
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

**Table A-2. Total and federally financed higher education R&D expenditures at surveyed institutions reporting less than \$150,000 in separately accounted-for R&D expenditures: FY 2024**

(Dollars in thousands)

Institution	Total	Federally financed
All institutions	1,336	496
Albion C.	92	9
Delaware Valley U.	119	25
Eastern Oregon U.	59	41
Framingham State U.	127	0
Le Moyne C.	126	0
Linfield U.	36	3
Maine Maritime Academy	44	30
McMurry U.	144	94
Mississippi U. for Women	0	0
Parker U.	89	23
Saint Martin's U.	44	31
Southern U., New Orleans	125	119
SUNY, system office	92	14
Texas A&M U.-Texarkana	101	37
U. Dallas	82	14
U. North Carolina, Pembroke	55	55
U. Wisconsin, system office	0	0
Western Colorado U.	1	1

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2024.

Table A-3. Institutions surveyed for the Higher Education Research and Development Survey, by highest degree granted and survey population: FYs 2019–24

(Number)

Highest degree granted	2019		2020		2021		2022		2023		2024	
	Short form population	Standard form population	Short form population	Standard form population	Short form population	Standard form population	Short form population	Standard form population	Short form population	Standard form population	Short form population	Standard form population
All respondents	267	647	261	655	260	648	263	637	246	665	244	681
Doctorate	73	473	77	474	81	478	83	473	80	484	77	497
Professional	45	32	44	37	42	37	41	37	46	35	45	41
Master's	104	95	96	98	92	93	97	85	86	101	83	98
Bachelor's	45	47	44	46	45	40	42	42	34	45	39	45

**Note(s):**  
Institutions reporting less than \$1 million received a shorter version of the questionnaire.

**Source(s):**  
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

**Table A-4. Response rates for the Higher Education Research and Development Survey, by survey population, highest degree granted, and institutional control: FY 2024**

(Number)

Survey population, highest degree granted, and institutional control	Number in survey universe	Complete responses	Partial responses	Total responses	Response rate (%)
All respondents	925	548	333	881	95.2
Standard form institutions	681	337	323	660	96.9
Doctorate	497	234	255	489	98.4
Professional	41	21	14	35	85.4
Master's	98	56	37	93	94.9
Bachelor's	45	26	17	43	95.6
Public	422	202	211	413	97.9
Private	259	135	112	247	95.4
Short form institutions	244	211	10	221	90.6
Doctorate	77	64	4	68	88.3
Professional	45	39	3	42	93.3
Master's	83	73	2	75	90.4
Bachelor's	39	35	1	36	92.3
Public	103	92	5	97	94.2
Private	141	119	5	124	87.9

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2024.



**Table A-5. Response rates for the Higher Education Research and Development Survey, by survey form and question: FY 2024**

(Number)

Survey form and question	All respondents	Complete question responses	Partial question responses	Total question responses	Question nonresponses	Response rate (%)
Standard form						
Question 1	660	599	61	660	0	100.0
Question 2	660	645	5	650	10	98.5
Question 3	660	641	0	641	19	97.1
Question 4	660	658	0	658	2	99.7
Question 5	660	655	0	655	5	99.2
Question 6	660	607	10	617	43	93.5
Question 7	660	617	34	651	9	98.6
Question 8	660	623	28	651	9	98.6
Question 9	660	654	6	660	0	100.0
Question 10	660	653	0	653	7	98.9
Question 11	660	637	21	658	2	99.7
Question 12	660	522	134	656	4	99.4
Question 13	660	648	3	651	9	98.6
Question 14	660	643	2	645	15	97.7
Question 15	660	494	99	593	67	89.8
Question 16	660	475	34	509	151	77.1
Short form						
Question 1	221	212	9	221	0	100.0
Question 2	221	220	1	221	0	100.0
Question 3	221	219	2	221	0	100.0
Question 4	221	220	1	221	0	100.0

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2024.

**Table A-6. Imputed amounts for total higher education R&D expenditures, by survey population and highest degree granted: FY 2024**  
(Dollars in thousands)

Survey population and highest degree granted	All R&D expenditures	Imputed amount	Imputed amount as % of total
All universities and colleges	117,718,608	460,097	0.4
Standard form institutions	117,554,145	443,990	0.4
Doctorate-granting institutions	116,581,952	387,665	0.3
Nondoctorate-granting institutions	972,193	56,325	5.8
Short form institutions	164,463	16,107	9.8
Doctorate-granting institutions	52,852	4,052	7.7
Nondoctorate-granting institutions	111,611	12,055	10.8

**Source(s):**  
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2024.

**Table A-7. Imputed amounts for total higher education R&D expenditures, by survey population and source of funds: FY 2024**

(Dollars in thousands)

Survey population and source of funds	All R&D expenditures	Imputed amount	Imputed amount as % of total
Standard form institutions			
All sources	117,554,145	443,990	0.4
Federal government	64,639,941	214,612	0.3
State and local government	6,076,128	25,578	0.4
Institution funds	30,150,641	146,924	0.5
Institutionally financed research	21,238,271	97,828	0.5
Cost sharing	1,848,294	9,675	0.5
Unrecovered indirect costs	7,064,076	39,421	0.6
Business	6,355,526	10,709	0.2
Nonprofit organizations	6,685,726	36,826	0.6
All other sources	3,646,183	9,341	0.3
Short form institutions			
All sources	164,463	16,107	9.8
Federal government	77,691	6,677	8.6
State and local government	7,893	1,217	15.4
Institution funds	50,997	5,194	10.2
Institutionally financed research	46,239	4,608	10.0
Cost sharing	1,825	155	8.5
Unrecovered indirect costs	2,933	431	14.7
Business	5,940	1,012	17.0
Nonprofit organizations	13,553	1,208	8.9
All other sources	8,389	799	9.5

**Note(s):**

Imputation rate at total level is lower than imputation rates at detail levels because some institutions could provide totals but not details.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2024.

Table A-8. Imputed amounts for higher education R&D expenditures from foreign sources, by source of funds: FY 2024

(Dollars in thousands)

Source of foreign funding	All R&D expenditures	Imputed amount	Imputed amount as % of total
All foreign funds	1,750,996	46,330	2.6
Foreign government	374,684	3,033	0.8
Business	834,915	34,527	4.1
Nonprofit organizations	423,075	13,179	3.1
Higher education institutions	87,965	2,874	3.3
All other sources	30,357	2,316	7.6

**Note(s):**

This table includes only institutions reporting \$1 million or more in total R&D expenditures in FY 2023. Institutions reporting less than \$1 million in total R&D expenditures in FY 2023 completed a shorter version of the survey form in FY 2024 that did not include this question.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2024.

Table A-9. Imputed amounts for externally financed higher education R&D expenditures, by type of agreement: FY 2024

(Dollars in thousands)

Type of agreement	All R&D expenditures	Imputed amount	Imputed amount as % of total
All agreements	87,403,504	297,066	0.3
Contracts	20,673,800	688,897	3.3
Grants, reimbursements, and all other agreements	66,729,704	2,672,655	4.0

**Note(s):**

Imputation rate at total level is lower than imputation rates at detail levels because some institutions could provide totals but not details. This table includes only institutions reporting \$1 million or more in total R&D expenditures in FY 2023. Institutions reporting less than \$1 million in total R&D expenditures in FY 2023 completed a shorter version of the survey form in FY 2024 that did not include this question.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2024.

Table A-10. Imputed amounts for higher education R&D expenditures in a medical school, by institutional control: FY 2024

(Dollars in thousands)

Institutional control	All R&D expenditures	Imputed amount	Imputed amount as % of total
All institutions	41,492,293	265,492	0.6
Public	22,466,334	228,333	1.0
Private	19,025,959	37,159	0.2

**Note(s):**  
This table includes only institutions reporting \$1 million or more in total R&D expenditures in FY 2023. Institutions reporting less than \$1 million in total R&D expenditures in FY 2023 completed a shorter version of the survey form in FY 2024 that did not include this question.

**Source(s):**  
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2024.

Table A-11. Imputed amounts for higher education R&D expenditures in clinical trials, by source of funds: FY 2024

(Dollars in thousands)

Source of funds	All R&D expenditures	Imputed amount	Imputed amount as % of total
All sources	5,553,236	47,666	0.9
Federally financed	2,673,232	19,860	0.7
Nonfederally financed	2,880,004	27,806	1.0

**Note(s):**

Imputation rate at total level is lower than imputation rates at detail levels because some institutions could provide totals but not details. This table includes only institutions reporting \$1 million or more in total R&D expenditures in FY 2023. Institutions reporting less than \$1 million in total R&D expenditures in FY 2023 completed a shorter version of the survey form in FY 2024 that did not include this question.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2024.



Table A-12. Imputed amounts for total and federally financed higher education R&D expenditures, by type of R&D: FY 2024

(Dollars in thousands)

Type of R&D	Total			Federally financed		
	All R&D expenditures	Imputed amount	Imputed amount as % of total	All R&D expenditures	Imputed amount	Imputed amount as % of total
All types of R&D	117,554,145	443,990	0.4	64,639,941	214,612	0.3
Basic research	73,766,372	8,920,358	12.1	41,180,431	6,006,241	14.6
Applied research	32,043,227	4,156,349	13.0	17,884,960	2,429,710	13.6
Experimental development	11,744,546	1,321,636	11.3	5,574,550	697,092	12.5

**Note(s):**  
Imputation rate at total level is lower than imputation rates at detail levels because some institutions could provide totals but not details. This table includes only institutions reporting \$1 million or more in total R&D expenditures in FY 2023. Institutions reporting less than \$1 million in total R&D expenditures in FY 2023 completed a shorter version of the survey form in FY 2024 that did not include this question.

**Source(s):**  
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2024.

**Table A-13. Imputed amounts for total and federally financed higher education R&D expenditures received as a subrecipient, by survey population and type of pass-through entity: FY 2024**

(Dollars in thousands)

Survey population and type of pass-through entity	Total			Federally financed		
	All R&D expenditures	Imputed amount	Imputed amount as % of total	All R&D expenditures	Imputed amount	Imputed amount as % of total
Standard form institutions						
All pass-through entities <sup>a</sup>	11,966,851	1,194,756	10.0	10,433,528	89,787	0.9
From educational pass-through entities	5,962,874	460,168	7.7	5,425,649	33,796	0.6
From business	1,683,458	178,403	10.6	1,387,157	10,996	0.8
From nonprofit organizations	2,402,213	249,467	10.4	1,958,562	12,786	0.7
From other pass-through entities	1,918,306	198,126	10.3	1,662,160	15,077	0.9
Short form institutions <sup>b</sup>						
From educational pass-through entities	21,290	2,068	9.7	19,500	1,781	9.1

<sup>a</sup> Imputation rate at total level is lower than imputation rates at detail levels because some institutions could provide totals but not details.<sup>b</sup> Institutions in the short form population were asked to provide R&D expenditures received as a subrecipient from educational pass-through entities only.**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2024.

**Table A-14. Imputed amounts for total and federally financed higher education R&D expenditures passed through, by survey population and type of subrecipient: FY 2024**

(Dollars in thousands)

Survey population and type of subrecipient	Total			Federally financed		
	All R&D expenditures	Imputed amount	Imputed amount as % of total	All R&D expenditures	Imputed amount	Imputed amount as % of total
Standard form institutions						
All subrecipients <sup>a</sup>	10,460,284	32,779	0.3	9,025,007	31,066	0.3
To educational subrecipients	5,804,764	665,529	11.5	5,209,464	562,552	10.8
To businesses	1,845,580	230,419	12.5	1,516,332	190,831	12.6
To nonprofit organizations	1,894,986	168,661	8.9	1,605,325	142,063	8.8
To other pass-through entities	914,954	163,300	17.8	693,886	129,102	18.6
Short form institutions <sup>b</sup>						
To educational subrecipients	3,187	305	9.6	2,331	195	8.4

<sup>a</sup> Imputation rate at total level is lower than imputation rates at detail levels because some institutions could provide totals but not details.<sup>b</sup> Institutions in the short form population were asked to provide R&D expenditures passed through to educational subrecipients only.**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2024.

**Table A-15. Imputed amounts for total and federally financed higher education R&D expenditures at institutions in the standard form population, by R&D field: FY 2024**

(Dollars in thousands)

R&D field	Total			Federally financed		
	All R&D expenditures	Imputed amount	Imputed amount as % of total	All R&D expenditures	Imputed amount	Imputed amount as % of total
All R&D fields	117,554,145	443,990	0.4	64,639,941	214,612	0.3
All science and engineering	109,984,909	1,816,640	1.7	62,709,350	660,990	1.1
Computer and information sciences	3,955,529	21,954	0.6	2,597,399	2,774	0.1
Geosciences, atmospheric sciences, and ocean sciences	4,407,449	32,508	0.7	2,904,063	3,417	0.1
Atmospheric science and meteorology	737,245	39,818	5.4	587,101	34,919	5.9
Geological and earth sciences	1,688,053	116,290	6.9	1,028,127	69,966	6.8
Ocean sciences and marine sciences	1,497,079	59,438	4.0	954,889	49,927	5.2
Geosciences, atmospheric sciences, and ocean sciences nec	485,072	28,857	5.9	333,946	16,005	4.8
Life sciences	66,821,053	1,179,686	1.8	36,573,922	386,003	1.1
Agricultural sciences	4,802,906	14,477	0.3	1,707,617	10,730	0.6
Biological and biomedical sciences	20,769,747	439,340	2.1	12,589,402	181,615	1.4
Health sciences	38,512,622	578,981	1.5	20,969,007	126,196	0.6
Natural resources and conservation	1,127,157	1,354	0.1	503,439	289	0.1
Life sciences nec	1,608,621	145,534	9.0	804,457	67,173	8.4
Mathematics and statistics	1,164,507	9,782	0.8	727,271	664	0.1
Physical sciences	7,456,024	84,850	1.1	4,899,902	3,651	0.1
Astronomy and astrophysics	1,078,915	11,786	1.1	722,929	66	0.0
Chemistry	2,517,853	18,715	0.7	1,524,637	1,810	0.1
Materials science	348,922	344	0.1	229,274	0	0.0
Physics	3,107,027	30,924	1.0	2,207,764	1,775	0.1
Physical sciences nec	403,307	23,081	5.7	215,298	0	0.0
Psychology	1,730,944	9,374	0.5	1,027,212	995	0.1
Social sciences	3,909,953	23,756	0.6	1,295,442	8,056	0.6
Anthropology	178,236	663	0.4	56,158	131	0.2
Economics	780,462	2,186	0.3	212,947	100	0.0
Political science and government	601,465	1,681	0.3	124,004	242	0.2
Sociology, demography, and population studies	768,731	5,072	0.7	337,323	468	0.1
Social sciences nec	1,581,059	14,154	0.9	565,010	7,115	1.3
Sciences nec	1,268,044	22,671	1.8	498,894	377	0.1
Engineering	19,271,406	123,819	0.6	12,185,245	4,913	0.0
Aerospace, aeronautical, and astronautical engineering	2,054,095	20,327	1.0	1,579,997	8,475	0.5
Bioengineering and biomedical engineering	2,081,887	18,398	0.9	1,324,949	44	0.0
Chemical engineering	1,409,387	3,975	0.3	828,980	0	0.0
Civil engineering	2,096,724	24,717	1.2	1,023,417	10,421	1.0
Electrical, electronic, and communications engineering	4,415,693	79,647	1.8	3,231,304	45,369	1.4
Industrial and manufacturing engineering	747,870	2,571	0.3	524,338	88	0.0
Mechanical engineering	2,572,680	44,196	1.7	1,753,617	22,223	1.3
Metallurgical and materials engineering	1,141,081	20,837	1.8	747,553	990	0.1
Engineering nec	2,751,989	5,496	0.2	1,171,090	43	0.0
All non-science and engineering	7,569,236	45,399	0.6	1,930,591	6,955	0.4
Business management and business administration	1,349,055	2,790	0.2	120,973	69	0.1

**Table A-15. Imputed amounts for total and federally financed higher education R&D expenditures at institutions in the standard form population, by R&D field: FY 2024**

(Dollars in thousands)

R&D field	Total			Federally financed		
	All R&D expenditures	Imputed amount	Imputed amount as % of total	All R&D expenditures	Imputed amount	Imputed amount as % of total
Communication and communications technologies	263,204	354	0.1	65,394	125	0.2
Education	2,218,025	12,910	0.6	974,858	6,101	0.6
Humanities	926,242	17,913	1.9	69,567	132	0.2
Law	443,674	1,206	0.3	43,441	62	0.1
Social work	461,284	999	0.2	224,358	110	0.0
Visual and performing arts	302,978	2,346	0.8	25,590	92	0.4
Non-science and engineering nec	1,604,774	6,881	0.4	406,410	264	0.1

nec = not elsewhere classified.

**Note(s):**

Imputation rate at total level is lower than imputation rates at detail levels because some institutions could provide totals but not details. This table includes only institutions reporting \$1 million or more in total R&D expenditures in FY 2023. Institutions reporting less than \$1 million in total R&D expenditures in FY 2023 completed a shorter version of the survey form in FY 2024 that did not include this question.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2024.

**Table A-16. Imputed amounts for total and federally financed higher education R&D expenditures at institutions in the short form population, by R&D field: FY 2024**

(Dollars in thousands)

R&D field	Total			Federally financed		
	All R&D expenditures	Imputed amount	Imputed amount as % of total	All R&D expenditures	Imputed amount	Imputed amount as % of total
All R&D fields	164,463	16,107	9.8	77,691	6,677	8.6
All science and engineering	132,864	14,377	10.8	68,895	5,798	8.4
Computer and information sciences	8,262	494	6.0	6,107	321	5.3
Geosciences, atmospheric sciences, and ocean sciences	6,541	589	9.0	3,819	287	7.5
Life sciences	57,779	7,887	13.7	30,750	3,054	9.9
Mathematics and statistics	4,581	512	11.2	2,292	126	5.5
Physical sciences	22,675	1,540	6.8	13,969	756	5.4
Psychology	6,358	1,145	18.0	2,091	667	31.9
Social sciences	12,982	1,379	10.6	5,082	360	7.1
Sciences nec	5,139	324	6.3	1,343	39	2.9
Engineering	8,547	507	5.9	3,442	188	5.5
All non-science and engineering	31,599	4,391	13.9	8,796	879	10.0

nec = not elsewhere classified.

**Note(s):**

Imputation rate at total level is lower than imputation rates at detail levels because some institutions could provide totals but not details.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2024.

**Table A-17. Imputed amounts for higher education R&D expenditures, by type of cost: FY 2024**

(Dollars in thousands)

Type of cost	All R&D expenditures	Imputed amount	Imputed amount as % of total
All costs	117,554,145	443,990	0.4
Direct costs	91,317,926	3,552,800	3.9
Salaries, wages, and fringe benefits	51,514,640	331,985	0.6
Software purchases	249,255	9,729	3.9
Noncapitalized	225,588	9,090	4.0
Capitalized	23,667	639	2.7
Capitalized equipment	3,603,337	13,446	0.4
Passed through to subrecipients	10,460,284	32,779	0.3
Other direct costs	25,490,410	916,393	3.6
Indirect costs	26,236,219	206,855	0.8

**Note(s):**

Imputation rate at total level is lower than imputation rates at detail levels because some institutions could provide totals but not details. This table includes only institutions reporting \$1 million or more in total R&D expenditures in FY 2023. Institutions reporting less than \$1 million in total R&D expenditures in FY 2023 completed a shorter version of the survey form in FY 2024 that did not include this question.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2024.



**Table A-18. Imputed amounts for total and federally financed higher education R&D equipment expenditures, by R&D field: FY 2024**

(Dollars in thousands)

R&D field	Total			Federally financed		
	All R&D expenditures	Imputed amount	Imputed amount as % of total	All R&D expenditures	Imputed amount	Imputed amount as % of total
All R&D fields	3,603,337	13,446	0.4	1,792,904	7,949	0.4
All science and engineering	3,512,875	141,949	4.0	1,772,027	59,654	3.4
Computer and information sciences	162,407	12,851	7.9	87,271	4,135	4.7
Geosciences, atmospheric sciences, and ocean sciences	140,385	4,261	3.0	81,949	855	1.0
Atmospheric science and meteorology	20,226	599	3.0	14,856	93	0.6
Geological and earth sciences	56,744	2,881	5.1	24,937	603	2.4
Ocean sciences and marine sciences	52,127	577	1.1	33,295	91	0.3
Geosciences, atmospheric sciences, and ocean sciences nec	11,288	204	1.8	8,861	68	0.8
Life sciences	1,443,952	26,539	1.8	628,974	16,361	2.6
Agricultural sciences	195,527	1,639	0.8	68,921	1,134	1.6
Biological and biomedical sciences	652,514	14,606	2.2	310,571	9,259	3.0
Health sciences	519,405	10,191	2.0	217,379	5,898	2.7
Natural resources and conservation	30,369	84	0.3	17,006	54	0.3
Life sciences nec	46,137	19	0.0	15,097	16	0.1
Mathematics and statistics	20,492	10,033	49.0	6,312	3,587	56.8
Physical sciences	555,564	16,518	3.0	322,049	6,071	1.9
Astronomy and astrophysics	47,636	1,407	3.0	28,851	492	1.7
Chemistry	208,766	1,664	0.8	102,423	815	0.8
Materials science	24,602	0	0.0	13,600	0	0.0
Physics	238,282	11,023	4.6	153,201	4,343	2.8
Physical sciences nec	36,278	2,424	6.7	23,974	421	1.8
Psychology	16,232	157	1.0	7,450	102	1.4
Social sciences	27,612	1,178	4.3	10,380	573	5.5
Anthropology	3,793	24	0.6	1,028	6	0.6
Economics	3,559	342	9.6	764	144	18.8
Political science and government	3,037	33	1.1	1,722	9	0.5
Sociology, demography, and population studies	2,775	329	11.9	418	93	22.2
Social sciences nec	14,448	450	3.1	6,448	321	5.0
Sciences nec	60,564	1,556	2.6	14,336	687	4.8
Engineering	1,085,667	68,856	6.3	613,306	27,283	4.4
Aerospace, aeronautical, and astronautical engineering	111,295	10,005	9.0	75,079	3,501	4.7
Bioengineering and biomedical engineering	109,468	3,879	3.5	52,326	1,632	3.1
Chemical engineering	89,832	1,331	1.5	50,901	533	1.0
Civil engineering	58,584	608	1.0	24,931	319	1.3
Electrical, electronic, and communications engineering	267,133	34,541	12.9	171,451	14,046	8.2
Industrial and manufacturing engineering	42,186	3,648	8.6	28,593	1,276	4.5
Mechanical engineering	144,205	12,074	8.4	85,957	4,478	5.2
Metallurgical and materials engineering	99,026	1,145	1.2	61,877	933	1.5
Engineering nec	163,938	1,625	1.0	62,191	565	0.9
All non-science and engineering	90,462	580	0.6	20,877	207	1.0
Business management and business administration	14,997	36	0.2	2,800	3	0.1

**Table A-18. Imputed amounts for total and federally financed higher education R&D equipment expenditures, by R&D field: FY 2024**

(Dollars in thousands)

R&D field	Total			Federally financed		
	All R&D expenditures	Imputed amount	Imputed amount as % of total	All R&D expenditures	Imputed amount	Imputed amount as % of total
Communication and communications technologies	4,596	8	0.2	925	4	0.4
Education	9,143	276	3.0	3,136	173	5.5
Humanities	17,776	124	0.7	995	6	0.6
Law	566	5	0.9	43	2	4.7
Social work	635	11	1.7	178	6	3.4
Visual and performing arts	3,949	57	1.4	652	3	0.5
Non-science and engineering nec	38,800	63	0.2	12,148	10	0.1

nec = not elsewhere classified.

**Note(s):**

Imputation rate at total level is lower than imputation rates at detail levels because some institutions could provide totals but not details. This table includes only institutions reporting \$1 million or more in total R&D expenditures in FY 2023. Institutions reporting less than \$1 million in total R&D expenditures in FY 2023 completed a shorter version of the survey form in FY 2024 that did not include this question.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2024.

Table A-19. Imputed amounts for headcount of R&D personnel, by sex and personnel function: FY 2024

(Number)

Type of personnel	All personnel functions			Researchers			R&D technicians			R&D support staff		
	All R&D personnel	Imputed amount	Imputed amount as % of total	All R&D personnel	Imputed amount	Imputed amount as % of total	All R&D personnel	Imputed amount	Imputed amount as % of total	All R&D personnel	Imputed amount	Imputed amount as % of total
All personnel	1,086,850	88,622	8.2	394,534	34,184	8.7	414,120	32,088	7.7	278,196	22,350	8.0
Sex												
Female	549,658	109,423	19.9	171,237	37,836	22.1	214,737	39,884	18.6	163,684	30,421	18.6
Male	509,973	100,872	19.8	214,779	44,963	20.9	190,659	34,530	18.1	104,535	20,314	19.4
Sex unknown or not stated	27,219	5,567	20.5	8,518	2,562	30.1	8,724	1,700	19.5	9,977	1,244	12.5

**Note(s):**  
This table includes only institutions reporting \$1 million or more in total R&D expenditures in FY 2023. Institutions reporting less than \$1 million in total R&D expenditures in FY 2023 completed a shorter version of the survey form in FY 2024 that did not include this question.

**Source(s):**  
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2024.

Table A-20. Imputed amounts for FTEs, by personnel function: FY 2024

(Number)

Personnel functions	All R&D personnel	Imputed amount	Imputed amount as % of total
All personnel	525,960	120,854	23.0
Researchers	209,336	54,076	25.8
R&D technicians	204,708	43,874	21.4
R&D support staff	111,916	22,645	20.2

FTE = full-time equivalent.

**Note(s):**

This table includes only institutions reporting \$1 million or more in total R&D expenditures in FY 2023. Institutions reporting less than \$1 million in total R&D expenditures in FY 2023 completed a shorter version of the survey form in FY 2024 that did not include this question. FTE R&D personnel are calculated as the total working effort spent on R&D during a specific period divided by the total effort representing a full-time schedule within the same period.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2024.

**Table A-21. Federally financed higher education R&D expenditures from federal agencies not specified in Question 9: FY 2024**

(Dollars in thousands)

Federal agency	R&D expenditures
All other federal agencies	4,505,710
Agency for International Development	217,260
Appalachian Regional Commission	3,668
Architect of the Capitol	76
Central Intelligence Agency	7,704
Consumer Product Safety Commission	371
Corporation for National and Community Service	12,617
Delta Regional Authority	433
Denali Commission	10
Department of Commerce	1,066,543
Department of Education	810,457
Department of Homeland Security	180,695
Department of Housing and Urban Development	24,577
Department of Justice	129,338
Department of Labor	29,336
Department of State	78,308
Department of the Interior	393,636
Department of the Treasury	125,772
Department of Transportation	569,147
Department of Veterans Affairs	119,601
Election Assistance Commission	383
Environmental Protection Agency	128,677
Executive Office of the President	6,421
Federal Communications Commission	361
Federal Deposit Insurance Corporation	1,130
General Services Administration	4,550
Institute of Museum and Library Services	5,799
Institute of Peace	724
Japan-United States Friendship Commission	5
Medicare Payment Advisory Commission	82
Millennium Challenge Corporation	1,914
National Archives and Records Administration	1,711
National Endowment for the Arts	3,989
National Endowment for the Humanities	16,145
Northern Border Regional Commission	185
Nuclear Regulatory Commission	11,367
Office of Personnel Management	2,704
Office of the Director of National Intelligence	35,457
Small Business Administration	28,193
Smithsonian Institution	3,545
Social Security Administration	17,680
Tennessee Valley Authority	1,119
Trade Development Agency	410
Other agencies not listed <sup>a</sup>	463,610

<sup>a</sup> Some funding sources were not identified for security reasons or because the original source was not known.**Note(s):**

This table includes only institutions reporting \$1 million or more in total R&D expenditures in FY 2023. Institutions reporting less than \$1 million in total R&D expenditures in FY 2023 completed a shorter version of the survey form in FY 2024 that did not include this question.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2024.

**Table A-22. Response summary for Question 13, capitalization thresholds, by highest degree granted, institutional control, and capitalization threshold: FY 2024**

(Number)

Capitalization thresholds	All institutions	Highest degree granted		Institutional control	
		Doctorate	Nondoctorate	Public	Private
Equipment					
Do not capitalize	7	5	2	5	2
500	2	2	0	0	2
1,000	12	10	2	1	11
1,500	1	1	0	0	1
2,000	5	2	3	2	3
2,500	8	6	2	2	6
3,000	10	8	2	1	9
5,000	564	429	135	383	181
7,500	1	1	0	0	1
10,000	22	14	8	7	15
15,000	1	0	1	0	1
25,000	10	3	7	1	9
50,000	1	1	0	0	1
75,000	1	0	1	1	0
100,000	1	0	1	1	0
250,000	3	2	1	3	0
300,000	1	0	1	1	0
Software					
Do not capitalize	97	69	28	60	37
500	1	1	0	0	1
1,000	13	9	4	3	10
1,500	1	1	0	0	1
2,000	4	1	3	1	3
2,500	5	4	1	2	3
3,000	10	7	3	1	9
5,000	288	204	84	160	128
7,500	1	1	0	0	1
10,000	21	12	9	8	13
15,000	1	0	1	0	1
20,000	1	0	1	0	1
25,000	16	9	7	5	11
50,000	11	11	0	5	6
75,000	3	3	0	2	1
100,000	103	86	17	95	8
140,000	1	1	0	1	0
200,000	3	3	0	3	0
250,000	19	18	1	16	3
300,000	1	0	1	1	0
400,000	3	3	0	3	0
500,000	22	20	2	18	4
1,000,000	21	17	4	20	1
4,000,000	2	2	0	2	0
5,000,000	1	1	0	1	0

**Note(s):**

This table includes only institutions reporting \$1 million or more in total R&D expenditures in FY 2023. Institutions reporting less than \$1 million in total R&D expenditures in FY 2023 completed a shorter version of the survey form in FY 2024 that did not include this question.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2024.

Table A-23. Higher Education Research and Development Survey data table crosswalk: FY 2023 vs. FY 2024

(Crosswalk)

2023	2024	2024 table title and group
Data Tables Report		
		Higher education R&D expenditures reported by all institutions (standard form and short form populations)
1	1	Higher education R&D expenditures, by source of funds: FYs 1953–2024
2	2	Higher education R&D expenditures, by source of funds and survey form: FYs 2010–24
3	3	Higher education R&D expenditures, by source of funds, R&D field, and survey population: FY 2024
5	4	Higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by all R&D expenditures, by source of funds: FY 2024
6	5	Higher education R&D expenditures at institutions in the standard form and short form survey populations, by state, institutional control, system, and institution: FY 2024
7	6	Total and federally financed higher education R&D expenditures at higher education institutions in the standard form and short form survey populations, ranked by FY 2024 total R&D expenditures: FYs 2021–24
		Higher education R&D expenditures within standard form population
8	7	Total and federally financed higher education R&D expenditures at institutions in the standard form survey population, by type of R&D: FYs 1953–2024
9	8	Higher education R&D expenditures at institutions in the standard form survey population, by source of funds and type of R&D: FYs 2010–24
10	9	Higher education R&D expenditures at institutions in the standard form survey population, by R&D field: FYs 2010–24
		Higher education R&D expenditures by selected area
13	10	Higher education R&D expenditures at institutions in the standard form survey population, by source of funds and R&D field: FY 2024
14	11	Federally financed higher education R&D expenditures at institutions in the standard form survey population, by federal agency and R&D field: FY 2024
17	12	Higher education R&D expenditures at institutions in the standard form survey population, by type of cost, highest degree granted, and institutional control: FYs 2010–24
		Institution rankings, by all R&D expenditures
21	13	Higher education R&D expenditures at institutions in the standard form survey population, ranked by FY 2024 R&D expenditures: FYs 2010–24
22	14	Higher education R&D expenditures at institutions in the standard form survey population, ranked by all R&D expenditures, by source of funds: FY 2024
23	15	Higher education R&D expenditures at institutions in the standard form survey population, ranked by all R&D expenditures, by R&D field: FY 2024
		Institution rankings, by federally financed R&D expenditures
24	16	Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by FY 2024 R&D expenditures: FYs 2010–24
25	17	Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by all federal R&D expenditures, by R&D field: FY 2024
26	18	Federally financed higher education R&D expenditures at institutions in the standard form survey population, ranked by all federal R&D expenditures, by federal agency: FY 2024
		Institution rankings, by special focus
36	19	Higher education R&D expenditures at all institutions in the standard form survey population, ranked by all non-medical school R&D expenditures: FY 2024
37	20	Higher education R&D expenditures at public institutions in the standard form survey population, ranked by all R&D expenditures, by source of funds: FY 2024
		Higher education R&D expenditures in engineering fields, ranked by FY 2024 total
55	21	Total and federally financed higher education R&D expenditures at institutions in the standard form survey population in engineering, ranked by FY 2024 total: FYs 2021–24
56	22	Higher education R&D expenditures at institutions in the standard form survey population in engineering subfields, ranked by all FY 2024 engineering R&D: FYs 2022–24 and by subfield for FY 2024
		Higher education R&D expenditures in non-S&E fields and subfields, ranked by FY 2024 total
58	23	Higher education R&D expenditures at institutions in the standard form survey population in non-science and engineering fields, ranked by all FY 2024 non-S&E fields: FYs 2022–24 and by subfield for FY 2024
		Federally financed expenditures, ranked by federal agency total, by R&D field: FY 2024
60	24	Federally financed higher education R&D expenditures at institutions in the standard form survey population, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2024
		Geographic distribution: FYs 2010–24
67	25	Higher education R&D expenditures at institutions in the standard form survey population, by state: FYs 2010–24
		Headcount and full-time equivalents (FTEs) of and R&D personnel at higher education institutions
78	26	Headcount and FTEs of R&D personnel at higher education institutions in the standard form survey population, by personnel function and sex: FYs 2020–24



Table A-23. Higher Education Research and Development Survey data table crosswalk: FY 2023 vs. FY 2024

(Crosswalk)

2023	2024	2024 table title and group
79	27	Headcount and FTEs of R&D personnel at higher education institutions in the standard form survey population, by state, institutional control, institution, and personnel function: FY 2024
Tables previously in the Data Tables Report now available only in the Web-based Table Builder data tool		
		Institution rankings, by nonfederally financed R&D expenditures
27	28	Higher education R&D expenditures at institutions in the standard form survey population funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2024
28	29	Higher education R&D expenditures at institutions in the standard form survey population funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2024
29	30	Higher education R&D expenditures at institutions in the standard form survey population funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2024
30	31	Higher education R&D expenditures at institutions in the standard form survey population funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2024
31	32	Higher education R&D expenditures at institutions in the standard form survey population funded by all other sources, ranked by all R&D expenditures, by R&D field: FY 2024
		Higher education R&D expenditures in science fields, ranked by FY 2024 total
39	33	Total and federally financed higher education R&D expenditures at institutions in the standard form survey population in the computer and information sciences, ranked by FY 2024 total: FYs 2021–24
40	34	Higher education R&D expenditures at institutions in the standard form survey population in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2024 geosciences, atmospheric sciences, and ocean sciences: FYs 2021–24
41	35	Federally financed higher education R&D expenditures at institutions in the standard form survey population in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2024 geosciences, atmospheric sciences, and ocean sciences: FYs 2021–24
42	36	Higher education R&D expenditures at institutions in the standard form survey population in the life sciences, ranked by all FY 2024 life sciences: FYs 2021–24
43	37	Federally financed higher education R&D expenditures at institutions in the standard form survey population in the life sciences, ranked by all FY 2024 life sciences: FYs 2021–24
44	38	Total and federally financed higher education R&D expenditures at institutions in the standard form survey population in the agricultural sciences and natural resources and conservation, ranked by FY 2024 agricultural sciences and natural resources conservation total: FYs 2021–24
45	39	Total and federally financed higher education R&D expenditures at institutions in the standard form survey population in the biological and biomedical sciences, ranked by FY 2024 total: FYs 2021–24
46	40	Total and federally financed higher education R&D expenditures at institutions in the standard form survey population in the health sciences, ranked by FY 2024 total: FYs 2021–24
47	41	Total and federally financed higher education R&D expenditures at institutions in the standard form survey population in mathematics and statistics, ranked by FY 2024 total: FYs 2021–24
48	42	Higher education R&D expenditures at institutions in the standard form survey population in the physical sciences, ranked by all FY 2024 physical sciences: FYs 2021–24
49	43	Federally financed higher education R&D expenditures at institutions in the standard form survey population in the physical sciences, ranked by all FY 2024 physical sciences: FYs 2021–24
50	44	Total and federally financed higher education R&D expenditures at institutions in the standard form survey population in chemistry, ranked by FY 2024 total: FYs 2021–24
51	45	Total and federally financed higher education R&D expenditures at institutions in the standard form survey population in physics, ranked by FY 2024 total: FYs 2021–24
52	46	Total and federally financed higher education R&D expenditures at institutions in the standard form survey population in psychology, ranked by FY 2024 total: FYs 2021–24
53	47	Higher education R&D expenditures at institutions in the standard form survey population in the social sciences, ranked by all FY 2024 social sciences: FYs 2021–24
54	48	Federally financed higher education R&D expenditures at institutions in the standard form survey population in the social sciences, ranked by all FY 2024 social sciences: FYs 2021–24
		Higher education R&D expenditures in engineering fields, ranked by FY 2024 total
57	49	Federally financed higher education R&D expenditures at institutions in the standard form survey population in engineering subfields, ranked by all FY 2024 engineering R&D: FYs 2022–24
		Federally financed expenditures, ranked by federal agency total, by R&D field: FY 2024
61	50	Federally financed higher education R&D expenditures at institutions in the standard form survey population, financed by the Department of Energy, ranked by DOE R&D expenditures, by R&D field: FY 2024
62	51	Federally financed higher education R&D expenditures at institutions in the standard form survey population, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2024
63	52	Federally financed higher education R&D expenditures at institutions in the standard form survey population, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by R&D field: FY 2024
64	53	Federally financed higher education R&D expenditures at institutions in the standard form survey population, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2024
65	54	Federally financed higher education R&D expenditures at institutions in the standard form survey population, financed by the Department of Agriculture, ranked by USDA R&D expenditures, by R&D field: FY 2024
66	55	Federally financed higher education R&D expenditures at institutions in the standard form survey population, financed by all other federal agencies, ranked by other agency R&D expenditures, by R&D field: FY 2024
Technical Tables		
A-1	A-1	Institution name changes between FY 2023 and FY 2024 Higher Education Research and Development Survey
A-2	A-2	Total and federally financed higher education R&D expenditures at surveyed institutions reporting less than \$150,000 in separately accounted-for R&D expenditures: FY 2024

Table A-23. Higher Education Research and Development Survey data table crosswalk: FY 2023 vs. FY 2024

(Crosswalk)

2023	2024	2024 table title and group
A-3	A-3	Institutions surveyed for the Higher Education Research and Development Survey, by highest degree granted and survey population: FYs 2019–24
		<b>Response rates: FY 2024</b>
A-4	A-4	Response rates for the Higher Education Research and Development Survey, by survey population, highest degree granted, and institutional control: FY 2024
A-5	A-5	Response rates for the Higher Education Research and Development Survey, by survey form and question: FY 2024
		<b>Imputed amounts for higher education R&amp;D expenditures: FY 2024</b>
A-6	A-6	Imputed amounts for total higher education R&D expenditures, by survey population and highest degree granted: FY 2024
A-7	A-7	Imputed amounts for total higher education R&D expenditures, by survey population and source of funds: FY 2024
A-8	A-8	Imputed amounts for higher education R&D expenditures from foreign sources, by source of funds: FY 2024
A-9	A-9	Imputed amounts for externally financed higher education R&D expenditures, by type of agreement: FY 2024
A-10	A-10	Imputed amounts for higher education R&D expenditures in a medical school, by institutional control: FY 2024
A-11	A-11	Imputed amounts for higher education R&D expenditures in clinical trials, by source of funds: FY 2024
		<b>Imputed amounts for federally funded higher education R&amp;D expenditures: FY 2024</b>
A-12	A-12	Imputed amounts for total and federally financed higher education R&D expenditures, by type of R&D: FY 2024
A-13	A-13	Imputed amounts for total and federally financed higher education R&D expenditures received as a subrecipient, by survey population and type of pass-through entity: FY 2024
A-14	A-14	Imputed amounts for total and federally financed higher education R&D expenditures passed through, by survey population and type of subrecipient: FY 2024
A-15	A-15	Imputed amounts for total and federally financed higher education R&D expenditures at institutions in the standard form population, by R&D field: FY 2024
A-16	A-16	Imputed amounts for total and federally financed higher education R&D expenditures at institutions in the short form population, by R&D field: FY 2024
A-17	A-17	Imputed amounts for higher education R&D expenditures, by type of cost: FY 2024
A-18	A-18	Imputed amounts for total and federally financed higher education R&D equipment expenditures, by R&D field: FY 2024
		<b>Imputed amounts for headcount and full-time equivalents (FTEs) of R&amp;D personnel: FY 2024</b>
A-19	A-19	Imputed amounts for headcount of R&D personnel, by personnel function and sex: FY 2024
A-20	A-20	Imputed amounts for FTEs, by personnel function: FY 2024
		<b>Response details: FY 2024</b>
A-21	A-21	Federally financed higher education R&D expenditures from federal agencies not specified in Question 9: FY 2024
A-22	A-22	Response summary for Question 13, capitalization thresholds, by highest degree granted, institutional control, and capitalization threshold: FY 2024
		<b>Crosswalk: FY 2023 vs. FY 2024</b>
New	A-23	Higher Education Research and Development Survey data table crosswalk: FY 2023 vs. FY 2024
<b>Tables no longer published; data available by custom selections in the Table Builder data tool</b>		
		<b>Higher education R&amp;D expenditures reported by all institutions (standard form and short form populations)</b>
4	NA	Higher education R&D expenditures received from and passed through to other U.S. higher education institutions, by source of funds and survey population: FY 2024
		<b>Higher education R&amp;D expenditures within standard form population</b>
11	NA	Federally financed higher education R&D expenditures at institutions in the standard form survey population, by R&D field: FYs 2010–24
12	NA	Nonfederally financed higher education R&D expenditures at institutions in the standard form survey population, by R&D field: FYs 2010–24
		<b>Higher education R&amp;D expenditures by selected area</b>
15	NA	Higher education R&D expenditures from foreign sources at institutions in the standard form survey population, by highest degree granted and institutional control: FYs 2010–24 and by source of foreign funds for FYs 2016–24
16	NA	Externally funded higher education R&D expenditures at institutions in the standard form survey population, by highest degree granted, institutional control, and type of agreement: FYs 2010–24
18	NA	Higher education R&D expenditures for equipment at institutions in the standard form survey population, by R&D field, source of funds, and institutional control: FY 2024
19	NA	Total R&D expenditures within medical schools at institutions in the standard form survey population, by highest degree granted and institutional control: FYs 2010–24

Table A-23. Higher Education Research and Development Survey data table crosswalk: FY 2023 vs. FY 2024

(Crosswalk)

2023	2024	2024 table title and group
20	NA	Higher education R&D expenditures for clinical trials at institutions in the standard form survey population, by source of funds, highest degree granted, and institutional control: FYs 2010–24
		<b>Institution rankings, by special focus</b>
32	NA	Higher education R&D expenditures at historically black colleges and universities in the standard form survey population, ranked by all R&D expenditures, by source of funds: FY 2024
33	NA	Higher education R&D expenditures at historically black colleges and universities in the standard form survey population, ranked by all R&D expenditures, by R&D field: FY 2024
34	NA	Higher education R&D expenditures at high-Hispanic-enrollment institutions in the standard form survey population, ranked by all R&D expenditures, by source of funds: FY 2024
35	NA	Higher education R&D expenditures at high-Hispanic-enrollment institutions in the standard form survey population, ranked by all R&D expenditures, by R&D field: FY 2024
38	NA	Higher education R&D expenditures at private institutions in the standard form survey population, ranked by all R&D expenditures, by source of funds: FY 2024
		<b>Higher education R&amp;D expenditures in non-S&amp;E fields and subfields, ranked by FY 2024 total</b>
59	NA	Federally financed higher education R&D expenditures at institutions in the standard form survey population in non-science and engineering fields, ranked by all FY 2024 non-S&E fields: FYs 2022–24 and by subfield for FY 2024
		<b>Geographic distribution: FYs 2010–24</b>
68	NA	Higher education R&D expenditures at institutions in the standard form survey population, by state, institutional control, and institution: FYs 2010–24
69	NA	Higher education R&D expenditures at institutions in the standard form survey population, by state and source of funds: FY 2024
		<b>Geographic distribution, by institutional control and institution: FY 2024</b>
70	NA	Higher education R&D expenditures at institutions in the standard form survey population, by state, institutional control, institution, and source of funds: FY 2024
71	NA	Higher education R&D expenditures at institutions in the standard form survey population, by state, institutional control, institution, and R&D field: FY 2024
72	NA	Higher education R&D expenditures at institutions with a medical school in the standard form survey population, by state, institutional control, and institution: FY 2024
73	NA	Higher education R&D expenditures at institutions reporting clinical trials in the standard form survey population, by state, institutional control, institution, and source of funds: FY 2024
		<b>Higher education R&amp;D expenditures passed through to and received as subrecipients: FY 2024</b>
74	NA	Total and federally financed higher education R&D expenditures received as a subrecipient, at institutions in the standard form survey population, by highest degree granted and institutional control: FY 2024
75	NA	Total and federally financed higher education R&D expenditures passed through to subrecipients, at institutions in the standard form survey population, by highest degree granted and institutional control: FY 2024
76	NA	Total and federally financed higher education R&D expenditures received as a subrecipient, at institutions in the standard form survey population, by state, institutional control, and institution: FY 2024
77	NA	Total and federally financed higher education R&D expenditures passed through to subrecipients, at institutions in the standard form survey population, by state, institutional control, and institution: FY 2024
		<b>Higher education R&amp;D expenditures in science and engineering fields only: FYs 2010-23</b>
80	NA	Higher education R&D expenditures at institutions in the standard form survey population in science and engineering fields, ranked by FY 2024 R&D expenditures: FYs 2010–24
81	NA	Federally financed higher education R&D expenditures at institutions in the standard form survey population in science and engineering fields, ranked by FY 2024 R&D expenditures: FYs 2010–24
82	NA	Higher education R&D expenditures at institutions in the standard form survey population in science and engineering fields, by state: FYs 2010–24
		<b>Higher education R&amp;D expenditures reported by the short form population</b>
83	NA	Higher education R&D expenditures at institutions in the short form survey population in FY 2024, by state, institutional control, and institution: FYs 2021–24
84	NA	Higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2024
85	NA	Federally financed higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2024
86	NA	Higher education R&D expenditures received from and passed through to other U.S. higher education institutions, at institutions in the short form survey population, by state, institutional control, institution, and source of funds: FY 2024

NA = not available in pre-produced table; data still available via custom selections in the Table Builder data tool (<https://ncesdata.nsf.gov/builder/herd>).

**Note(s):**

The data tables and technical tables provided as part of the Higher Education Research and Development Survey 2024 data release were revised. These changes do not reflect a change in the survey or the availability of the underlying data; this new configuration presents a streamlined approach to the published data. The NCSES Table Builder data tool and public use file contain all of the data necessary to replicate the tables that are no longer published.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

# Acknowledgments and Suggested Citation

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## Contact Us

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