



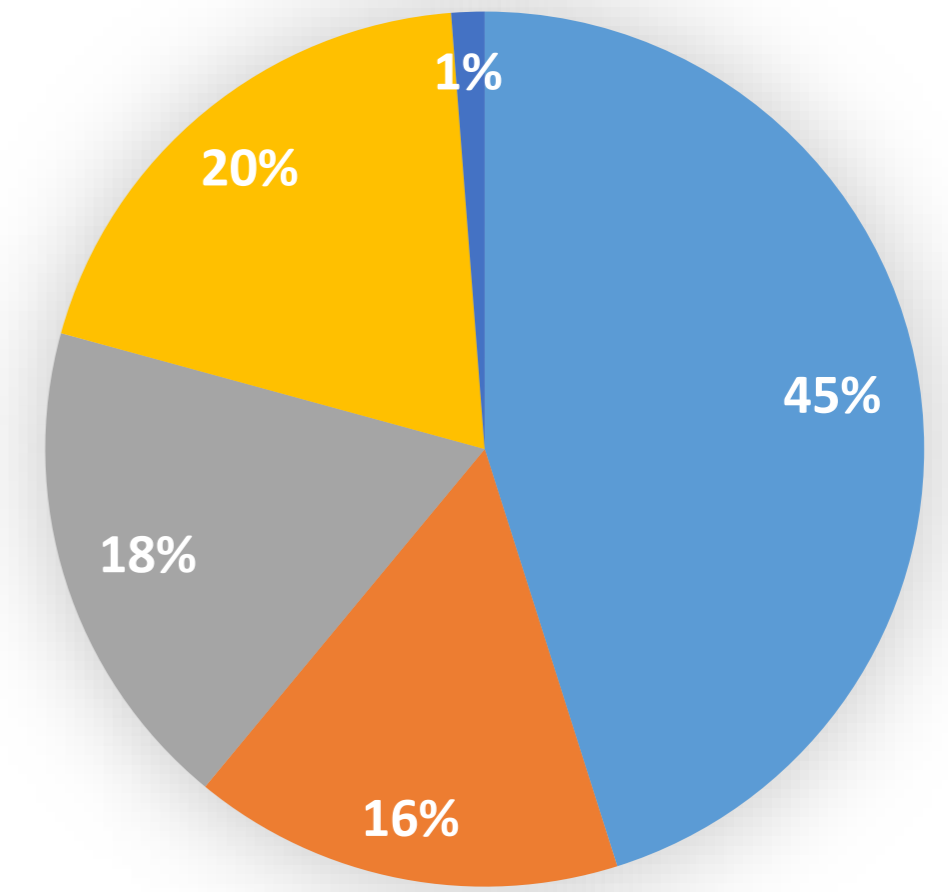
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### Goals

- To enable our research community to get the best from their research software
- To provide specialist advice and support to researchers and RSEs
- To enhance the University's reputation for high quality research
- To help researchers get the most from our Advanced Research Computing systems and services



- Arts & Law
- Engineering & Physical Sciences
- Medical & Dental
- Life & Environmental Sciences
- Social Sciences

### Advice

- How best to use HPC to analyse data from Cyclotron experiments
- Transitioning to using git and GitLab
- Parallel MATLAB use
- How to structure Django applications
- Use of HPC VM for health sciences

### Training

- **Software Carpentry: Bash, git, Python/R**
  - Teach foundational coding and data science skills to researchers
- **NVIDIA DLI Fundamentals of Computer Vision**
  - Solve challenging problems with deep learning and accelerated computing
- **Introduction to Linux**
  - Getting started with command line Linux
- **BEAR Necessities – Introduction to BlueBEAR HPC**
  - Learn about HPC and practice submitting and interacting with jobs

### Coding

Up to 10 days free coding from an RSE

- Replace outdated web application
- Migrate MPI library to C++
- Create an application to track the recycling process of batteries
- Parallelise R script to run on HPC

### Coaching

Up to 20 half-day coaching sessions from an RSE

- Developing a web application
- Coaching a department RSE
- Developing a mobile app
- Geospatial analysis in R
- Experiment with C++ library
- Teaching a surgeon to code

### Coaching vs. Coding



"It was extremely helpful to have your honest appraisal"  
 "It has saved me a lot of hassle"  
 "It's really fantastic"  
 "You've done an amazing job"  
 "So glad that this is working so quickly!"  
 "Above and beyond what I was expecting"  
 "It has solved an issue we had been hitting for weeks"  
 "Many thanks for this... it all looks great"



BASH THE BOURNE-AGAIN SHELL

