

TRANSNATIONAL ACCESS SCHEME

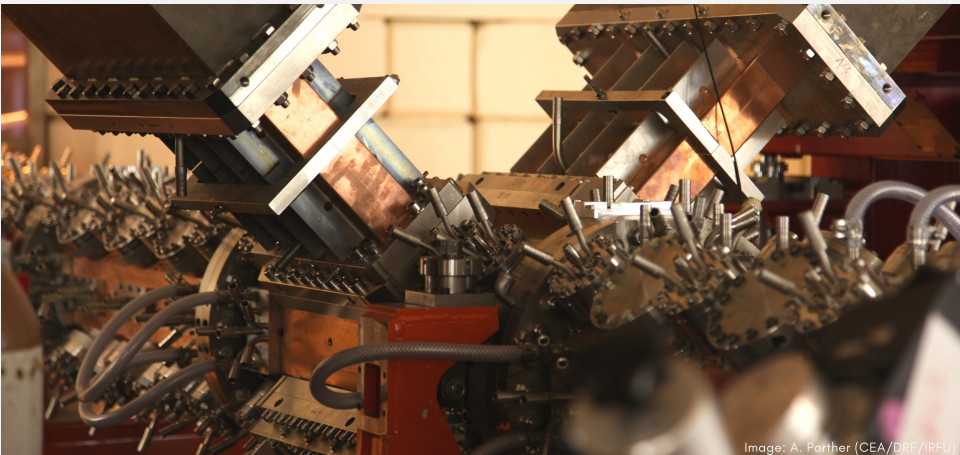


Image: A. Porther (CEA/DRE/IRFU)

THE TA SCHEME

The ARIES project offers support to access 14 accelerator testing facilities across 5 European countries.

TESTING OFFERED

- Material testing
- Magnet testing
- Electron & proton beam testing
- Radiofrequency testing
- Plasma beam testing

SUPPORT OFFERED

Project members may be reimbursed for travel and accommodation and will be provided with technical and administrative support during their period of access.

ELIGIBILITY

Access can be provided to selected teams comprised of one or more researchers led by a User Group Leader. Leaders and the majority of users in the group must work in a country other than where the selected installation is located, except when accessing an international organisation or to remote users.

PUBLICATIONS

User groups must disseminate their results and acknowledge the ARIES project accordingly.

HOW TO APPLY

User Group Leaders are invited to contact the Facility Coordinator of their chosen installation prior to completing a formal application. Further information, including contact details, can be found on the ARIES website.



Image: Alastair Philip Wiper/CERN

ELECTRON AND PROTON BEAM TESTING

ANKA @ KIT GERMANY

ANKA offers users a large electron range between 0.5–2.5 GeV.

FLUTE @ KIT GERMANY

This linac offers electron energies of 7 MeV and 40–50 MeV.

IPHI @ CEA FRANCE

The high-intensity proton injector offers a beamline of 3 MeV.

SINBAD @ DESY GERMANY

This linac will offer ultra short electron beams, up to 100 MeV.

VELA @ STFC UNITED KINGDOM

VELA offers the ability to tailor the beam, set-up & shielding.

MAGNET TESTING

GERSEMI @ FREIA SWEDEN

Gersemi is a vertical cryostat for device characterization with liquid helium.

MAGNET @ CERN SWITZERLAND

MagNet offers horizontal & vertical test benches, liquid helium & nitrogen cooling.

PLASMA BEAM TESTING

APOLLON @ LULI FRANCE

APOLLON is a multi-PW facility offering coupling of up to four beams. The facility will be open to users in 2018.

LULAL @ ULUND SWEDEN

LULAL offers advanced, ultra-short & ultra-intense lasers. Electron beam of 100–200 MeV available.

For further details about the specific capabilities of each facility, the contact details for each Facility Coordinator, and information on how to apply, please visit the ARIES website.



MATERIAL TESTING

HIRADMAT @ CERN SWITZERLAND

HiRadMat offers a 440 GeV proton beam & heavy ion beams up to 21 kJ.

UNILAC @ GSI GERMANY

The UNILAC M-branch features 3 ion beam lines & various analysis techniques.

RADIOFREQUENCY TESTING

HNOSS @ FREIA SWEDEN

A horizontal cryostat, where users can characterize 1–2 cavities at a time.

XBOX @ CERN SWITZERLAND

Klystron-based X-band test stands test high-gradient & high-power structures.

UHI100 @ CEA FRANCE

LPA-UHI100 provides the most intense beam at the LIDYL laboratory, at around 75 MeV. Suited to ultra-high intensity experiments.

