

Research and Innovation in the UK

UK Research
and Innovation



Arts & Humanities
Research Council

EPSRC

Engineering and Physical Sciences
Research Council

E · S · R · C
ECONOMIC
& SOCIAL
RESEARCH
COUNCIL

Innovate UK



Research
England



BBSRC
bioscience for the future

MRC | Medical
Research
Council



Science & Technology
Facilities Council

NERC
SCIENCE OF THE
ENVIRONMENT



Science & Technology
Facilities Council

Science and Technology Facilities Council

One of Europe's largest multi-disciplinary
scientific research organisations

Our campuses

Delivering science, technology, innovation and commercialisation across a wide range of disciplines and sectors.



- Unique platform for public/private collaboration; academia, RDAs, local authorities, businesses
- Incubator space for new businesses and specialist research institutes, e.g. ESA Centre
- Companies on the campuses have raised in excess of £500M equity finance



Where we are

UK Astronomy Technology Centre
Edinburgh, Scotland



Polaris House
Swindon, Wiltshire



Chilbolton Observatory
Stockbridge, Hampshire



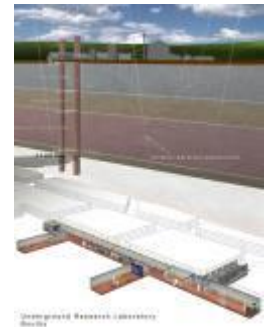
Daresbury Laboratory
Sci-Tech Daresbury
Warrington, Cheshire



Rutherford Appleton Laboratory
Harwell
Didcot, Oxfordshire



Boulby Underground Laboratory North Yorkshire



...and internationally



Science & Technology
Facilities Council



Sci-Tech Daresbury

Prime location in the North West

Campus includes:

- STFC Daresbury Laboratory
- Daresbury Innovation Centre
- Cockcroft Institute
- Innovations Technology Access Centre (I-TAC)
- Vanguard House



Science & Technology
Facilities Council



Hartree Centre

A supercomputing venture between STFC and IBM

Home to the world's largest supercomputer dedicated to software development and capable of over a thousand trillion calculations per second



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Harwell

Forefront of science for more than 60 years.

140+ organisations including:

- STFC Rutherford Appleton Laboratory
- Diamond Light Source
- Medical Research Council
- European Space Agency
- Public Health England



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Diamond Light Source

Operated as not-for-profit
limited company joint
venture by UK Government
through STFC in
partnership with the
Wellcome Trust.



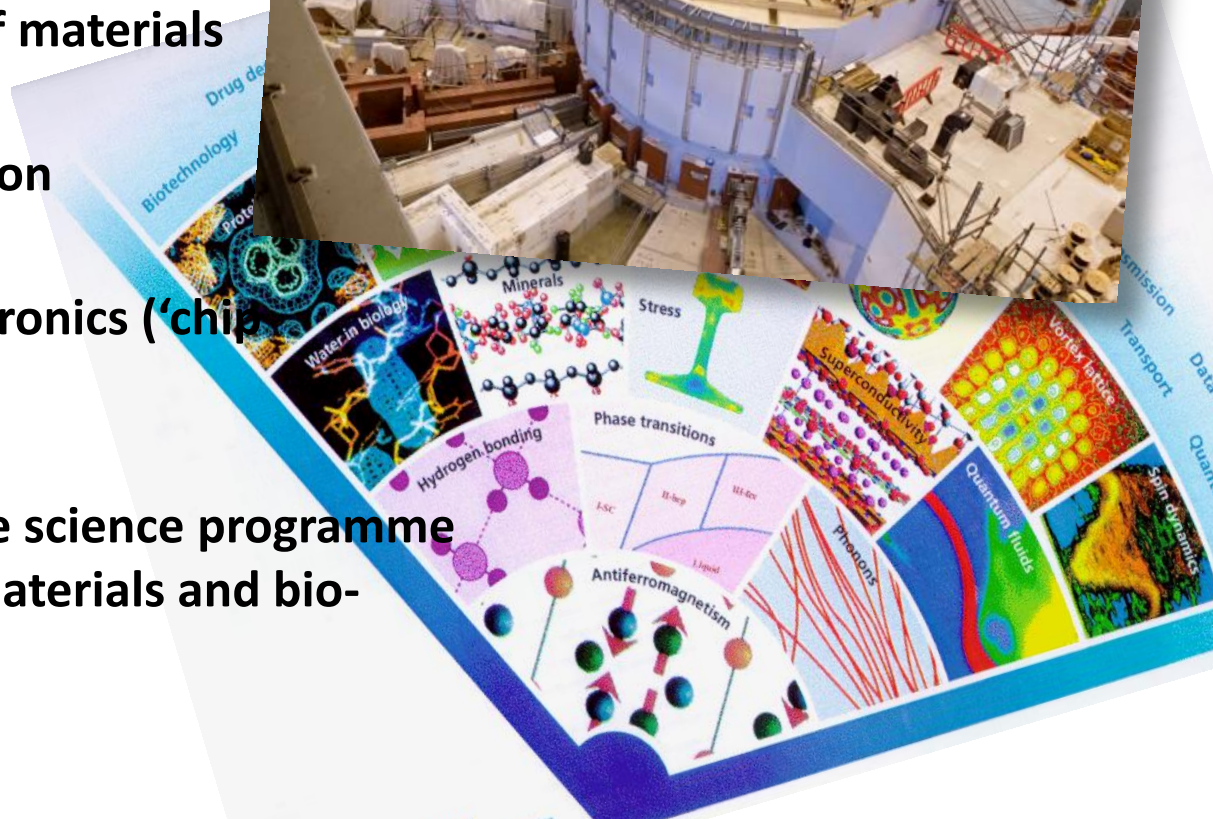
Speeds electrons to near-light speed so that they give off
a light 10 billion times brighter than the sun



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ISIS Spallation Neutron Source

- ISIS is the world's most productive pulsed neutron source.
- Structural and dynamical of materials
- Residual stress determination
- Accelerated testing of electronics ('chip irradiation')
- Target Station 2 expands the science programme into soft matter, advanced materials and bio-science



UK Astronomy Technology Centre

The national centre for astronomical technology, based in Edinburgh.

Instruments for many of the world's major telescopes are designed and built at UK ATC.



UK ATC research and technology delivers practical benefits and generates wider impact outside its traditional field of astronomy

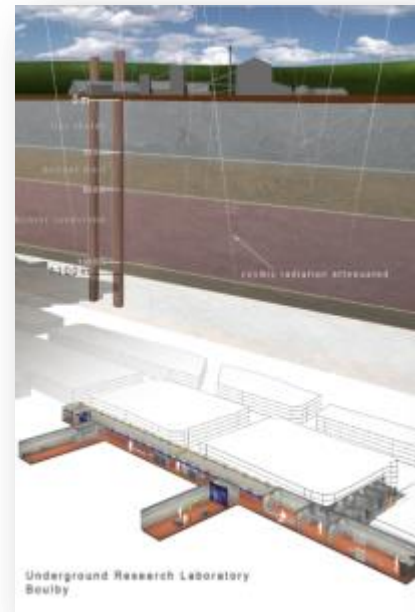


Boulby Mine

At 1.1km underground, Boulby is capable of hosting experiments requiring vastly reduced levels of background radiation

Current studies include:

- The search for Dark Matter
- Muon tomography for Carbon Capture and deep geological mapping
- Cosmic rays and climate studies
- Astrobiology and life in extreme environments
- Ultralow background radiation measurement
- Geology and Geophysics studies



We work with universities

STFC funds university research projects and postgraduate training awards in astronomy, particle physics, space science and nuclear physics

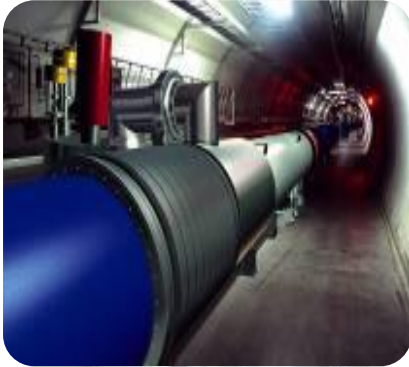


University of Liverpool particle physics clean room

- Around 1,700 researchers in these disciplines based in UK universities and our labs
- Provide universities with the opportunity to apply for contracts with major international science facilities
- Our university partnerships and laboratories deliver our science programme



Our science programme



Particle Physics/Particle Astrophysics

- Revealing the structure and forces of nature - CERN

Ground based Astronomy

- European Southern Observatory
- Square Kilometre Array

Space based Astronomy

- European Space Agency
- Bilaterals – NASA, JAXA, etc.

Nuclear Physics

- Nuclear Skills for - medicine, energy and environmental applications



Stay Connected



Fascination

STFC's digital in-house magazine, packed full of our latest, most exciting science and technology stories.

www.stfc.ac.uk/fascination



Highlights

An annual look back at some of our most outstanding scientific discoveries, and public outreach work.

www.stfc.ac.uk/2419



STFC Impact Report

A showcase of how STFC science delivers real economic and societal benefits to the United Kingdom

www.stfc.ac.uk/2550



Factsheets

An overview of STFC work and facilities

<http://www.stfc.ac.uk/2486>



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A new vision for new times
Impact through inspiration and innovation