Science & Technology Facilities Council

Welcome to STFC!

Andrew Sansum

Science & Technology Facilities Council

One of Europe's largest multidisciplinary research organisations

- **Support** University based research and skills in astronomy, particle and nuclear physics
- **Build** national Science and Innovation Campuses around our national laboratories to promote academic and industrial collaboration;
- **Provide** access to world leading large scale research facilities for UK researchers and industry.

What we do



World class research, innovation and skills

- Broad range of physical, life and computational sciences
- Around 1,700 scientists in particle and nuclear physics, and astronomy
- Access for 7,500 scientists to world-leading, large-scale facilities
- Science and Innovation Campuses at Daresbury and Harwell
- Globally-recognised capabilities and expertise in technology R&D
- Inspiring young people to undertake STEM

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Where we are

UK Astronomy Technology Centre
Edinburgh, Scotland

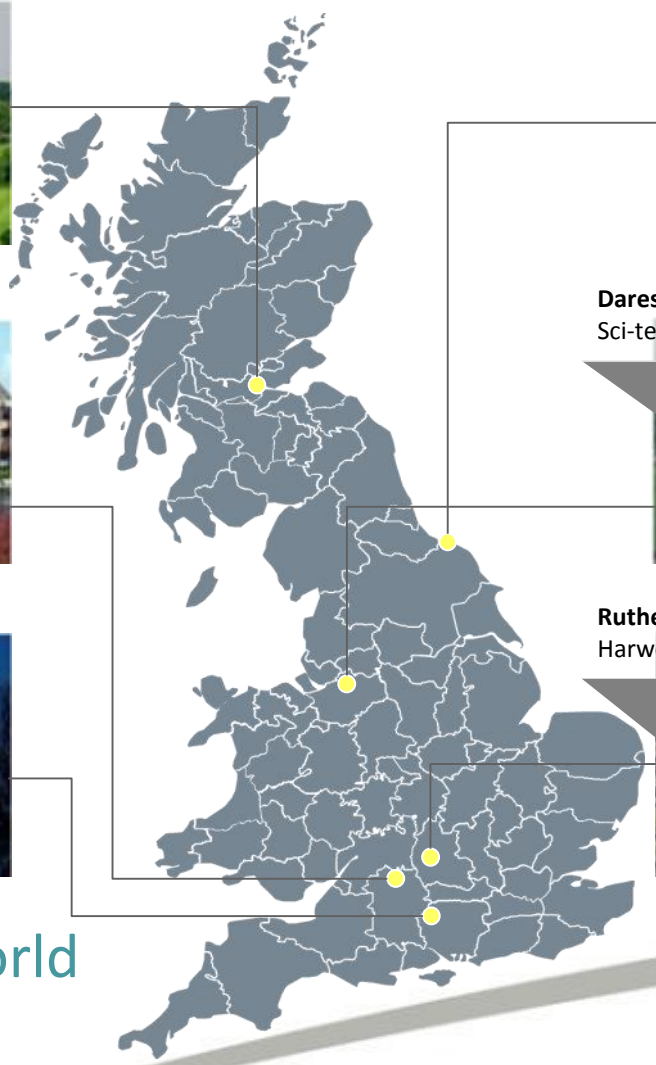
Boulby Underground Laboratory
North Yorkshire

Polaris House
Swindon, Wiltshire

Daresbury Laboratory
Sci-tech Daresbury Campus, Liverpool City Region

Chilbolton Observatory
Stockbridge, Hampshire

Rutherford Appleton Laboratory
Harwell Didcot, Oxfordshire



…and around the world

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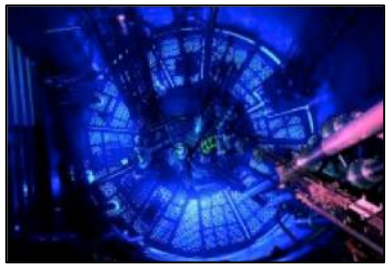
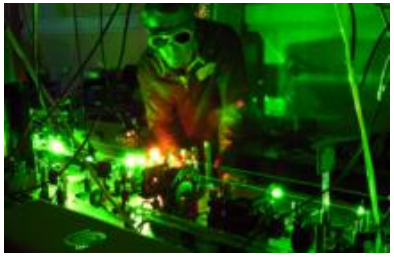
Our facilities drive research

Neutron sources



Providing powerful insights into key areas of energy, biomedical research, climate, environment and security.

High-power lasers



Providing applications on bioscience and nanotechnology and demonstrating laser driven fusion as a future source of sustainable, clean energy.

Light sources

Providing new breakthroughs in medicine, environmental and materials science, engineering, electronics and cultural heritage.

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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

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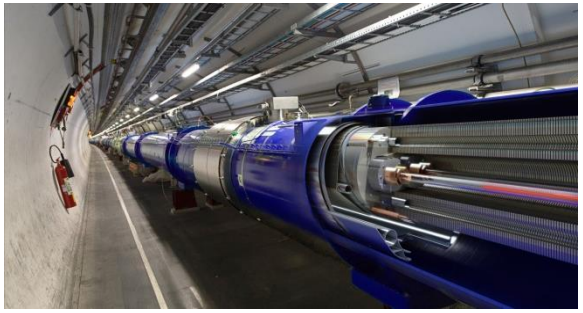
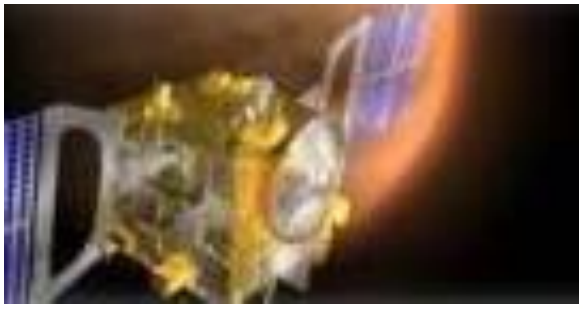
Our international profile

We work with international partners:





- European Commission, G8, SIN/UKTI etc
- CERN, Fermilab, KEK etc
- ESO, SKA, NSF, NWO etc
- European Space Agency, NASA, JAXA etc
- European Synchrotron Radiation Facility
- European Spallation Source, Institut Laue-Langevin
- FAIR, GSi etc
- X-FEL

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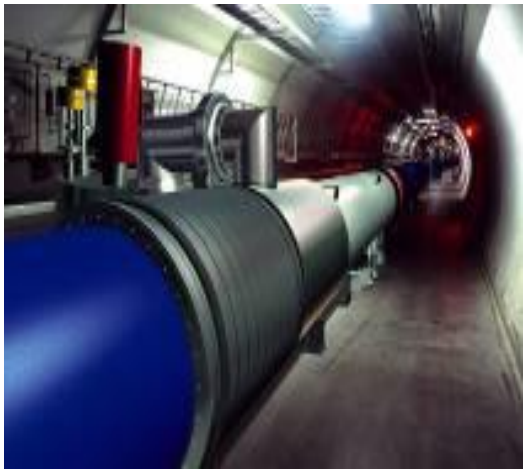
Our science programme



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

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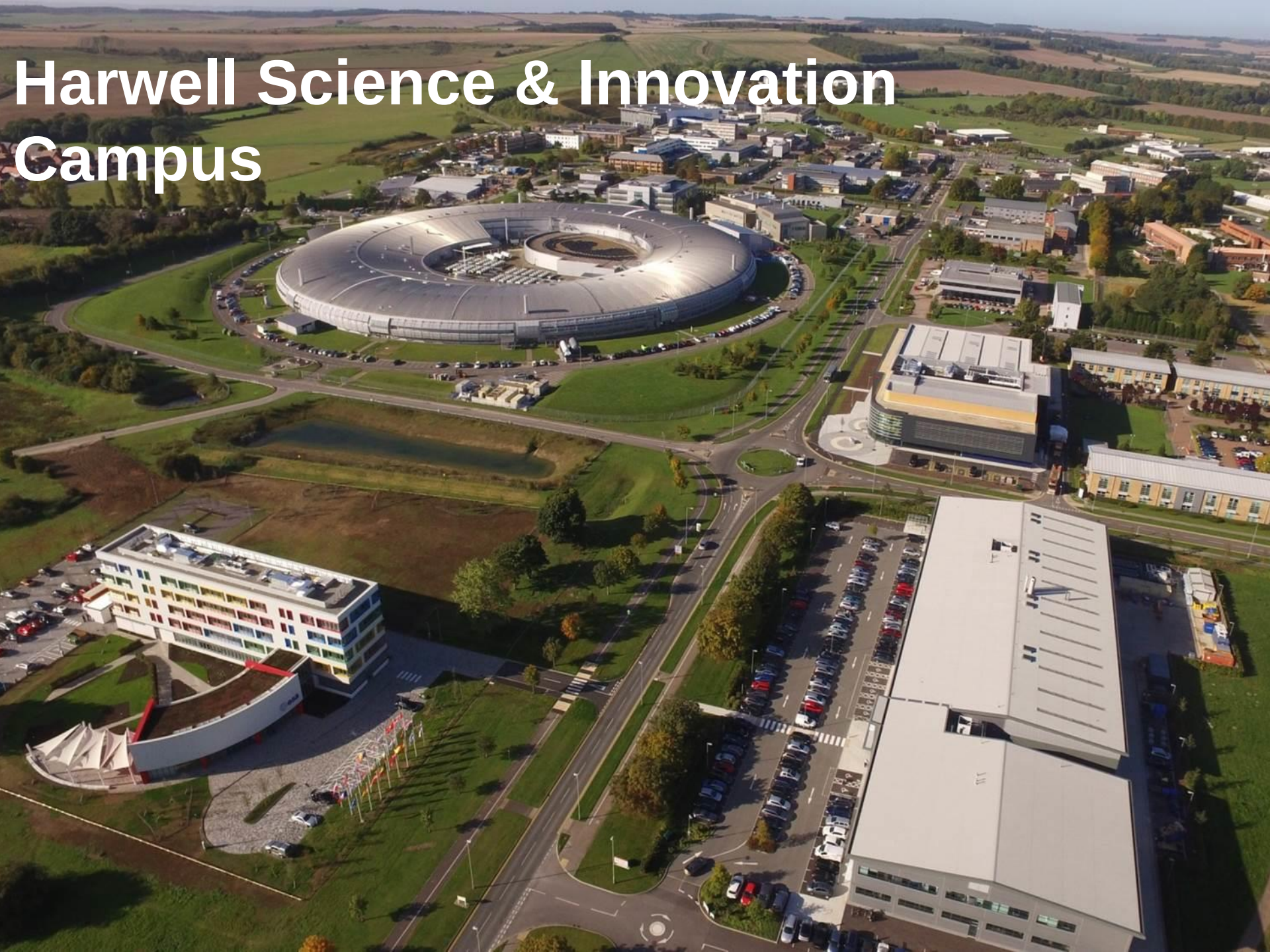
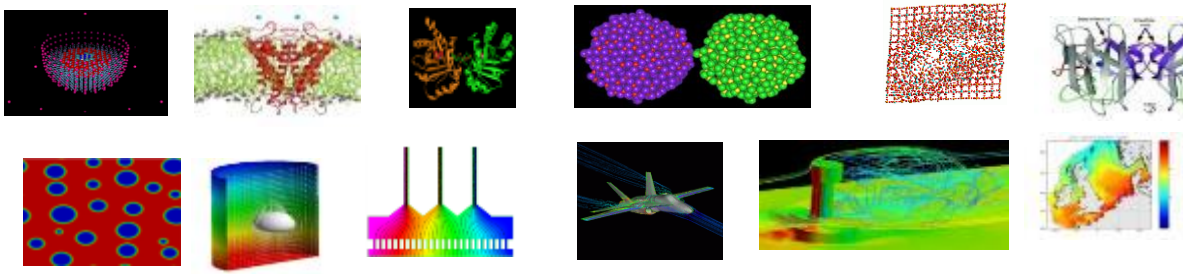
Harwell Science & Innovation Campus



Hosted by Scientific Computing Department

- **Major funded activities**
  - 180 staff supporting over 7500 users
  - Applications development and support
  - Compute and data facilities and services
  - Research: over 100 publications per year
  - Deliver over 3500 training days per year
  - Systems administration, data services, high-performance computing, numerical analysis & software engineering.

  - **Expertise across the length scales from processes occurring inside atoms to environmental modelling**



Funded by GridPP and SCD

GridPP
UK Computing for Particle Physics

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Enjoy your Stay!

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10 Years of Impact and Inspiration