



The Cockcroft Institute of Accelerator Science and Technology



The Cockcroft Institute congratulates our colleagues at CERN and its leadership for making the Large Hadron Collider a reality. In celebration of its success, the Cockcroft Institute has signed a comprehensive Agreement of Collaboration with CERN and has created special

OPPORTUNITIES for GRADUATE and POST-GRADUATE RESEARCH in ACCELERATOR SCIENCE and TECHNOLOGY

In developing accelerator systems and particle beams of protons, antiprotons, neutrons, ions, electrons, positrons, muons, neutrinos and photons of unprecedented reach in precision, luminosity and energy to serve, support and bring out the full potential and scientific reach of the comprehensive integrated accelerator complex at CERN and facilities in the UK, their future upgrades and transformations for research in fundamental sub-atomic physics.

Potential doctoral students and post-doctoral research assistants recruited by the Cockcroft Institute will have the unique opportunity to receive mentorship from existing Cockcroft Institute faculty members, augmented by its most recent faculty additions, at any of its three research-led partner Universities of Liverpool, Manchester and Lancaster and senior scientists from the partnering institution STFC, teaming up with senior scientist mentors from CERN. Opportunities exist for advanced research in accelerator physics and technology for LHC and its upgrades including a possible large hadron electron collider, for TeV scale electron-positron colliders (CLIC) and accelerators for research with heavy ions, neutrinos, muons, anti-matter and photons.

Prospective students and post-doctoral fellows should send in a complete CV, list of publications, a statement of research interest and three names of reference by post or electronically to:

**Operations Manager: Ms. Liz Mason
The Cockcroft Institute
Keckwick Lane
Daresbury Science and Innovation Campus
Daresbury, Warrington
WA4 4AD
United Kingdom**

Email: e.a.mason@dl.ac.uk Deadline December 31, 2008

The Cockcroft Institute is a newly created international centre for accelerator science and technology in the UK. It is a joint venture between the Universities of Lancaster, Liverpool and Manchester, the Science and Technology Facilities Council (STFC at the Daresbury and Rutherford Appleton Laboratories) and the North West Development Agency (NWDA). The Institute is located in a purpose-built building on the Daresbury Science and Innovation Campus adjacent to the Daresbury Laboratory and the Daresbury Innovation Centre, and has established satellite centres in each of the participating universities.

The Institute is named after late Sir John Cockcroft FRS, who shared the Nobel Prize in Physics with Ernest Walton in 1951 for "splitting the atom" in 1932. Born in Todmorden in northwest England, educated in part in Manchester and Cambridge, and working alongside scientific giants like Lord Rutherford and Sir James Chadwick, he is regarded as the pioneer of modern accelerator research, initiating and helping establish many major national and international laboratories around the world such as the Rutherford Appleton Laboratory and CERN.

The Cockcroft Institute was officially opened by the then UK Minister for Science, Lord Sainsbury, in September 2006.

For more information visit: www.cockcroft.ac.uk

