Research Assistant/Associate in High Energy Physics (Job ref: NS2012261NT)

High Energy Physics Group, Department of Physics

South Kensington Campus/CERN

Salary range: Research Assistant: £28,200 - £31,250 per annum
Research Associate: £32,100 - £40,720 per annum

Fixed Term: Three years

The High Energy Physics Group at Imperial College London invites applications for a Research Assistant/Associate to work on the CMS experiment.

The Imperial College group is playing important roles in data analysis in CMS, particularly focusing on SUSY and Higgs studies, and has major detector responsibilities in the tracking and trigger systems.

You should be able to contribute significantly to our current and future physics efforts and to the experiment upgrades, where our interests are in upgrades to the Tracker and Level 1 calorimeter trigger. In both cases we have substantial ongoing efforts developing new electronics and readout systems.

Research Associate will have, and Research Assistant will be about to submit, a PhD in experimental particle physics or have equivalent professional qualifications and experience. Experience with data analysis in High Energy Physics and good problem solving skills are essential. Experience of working within an international collaborative environment with large data processing requirements is essential. Experience and a good knowledge of programming with C++ are essential. Experience of working in the Grid environment is desirable. Experience with maintaining, developing or operating electronic hardware, FPGA firmware is desirable. Evidence of capability of operating digital electronics boards, firmware, online software or computing systems is desirable. Experience of working with postgraduate or advanced undergraduate students is desirable.

Further details on the post are available from Prof. P. Dauncey (P.Dauncey@imperial.ac.uk).

The post will be initially based in London but will require regular travel to CERN in Geneva and could be based there for a long period. If resident at Imperial, you will be expected to contribute to the Department's teaching activities up to approximately half a day per week during the academic year, as appropriate.

The Imperial College London High Energy Physics group has a strong experimental programme encompassing the CMS and LHCb experiments at the LHC and the T2K experiment in Japan. The group is also active in searches for Dark Matter, SuperNEMO, LISA, the development of detectors for future experiments and has an active accelerator programme. Further details may be found at: http://www.imperial.ac.uk/highenergyphysics

Our preferred method of application is via our website http://www3.imperial.ac.uk/employment (please select “Job Search” then enter the job title or vacancy reference number NS2012261NT into “Keywords”).

Applications must include:
- A college application form quoting job reference number NS2012261NT on the form
- A CV and publication list

Alternatively, if you are unable to apply online please contact: Ms Paula Brown, Tel: +44 (0) 20 7594 7823, Email: Paula.Brown@imperial.ac.uk

Closing date: 14 January 2013 (midnight GMT)

Committed to equality and valuing diversity. We are also an Athena Bronze SWAN Award winner, a Stonewall Diversity Champion and a Two Ticks Employer. The Department of Physics is also an IoP JUNO Champion and Athena Silver Swan Award Winner.