Job Title: Experimental Particle Physicist

Reference: IRC85052

Salary is in the range: £ 27,792 to £ 29,566 (Dependent upon experience)

Contract Type: Fixed Term – 3 years (Possible extension to 6 years)

Closing date: 10th April 2013

Interview date: TBC

Applications are invited for a Research Associate position in experimental particle physics with the CMS group in the Particle Physics Department (PPD) at the STFC Rutherford Appleton Laboratory. PPD is one of the largest experimental particle physics groups in the UK. The laboratory also hosts a large Technology Division. The post is initially for a period of 3 years with the possibility of extension to 6 years. A vacancy within the department for a permanent position is anticipated during this time.

The CMS group played a leading role in the design and construction of the CMS Electromagnetic Calorimeter as well as the Tracker readout electronics and associated simulation and reconstruction software. RAL has major computing resources, being the home of the UK Tier 1 and a CMS Tier 2. The group is playing a major role in the upgrade of the CMS trigger.

The CMS group is very active in physics analysis. Our interests focus on BSM physics and encompass a wide range of topics including heavy resonances, long-lived particles, hidden valley models and quantum black holes. We collaborate closely with the Southampton University Particle Physics Phenomenology group as part of the NExT Institute, which has been established to enhance interaction between experimentalists and theorists. (See: http://www.next-institute.ac.uk)

The successful applicant will play a leading part in the development, construction, commissioning and operation of the next generation of CMS triggering. The CMS Level 1 Calorimeter trigger will be replaced for 14 TeV LHC operation and the post holder will work on online and offline software aspects of this system. The potential of a possible Level 1 track-trigger is currently being examined and in later years the post holder will contribute to this project.

Applicants should have, or be about to complete, a PhD in experimental particle physics. Knowledge of C++ is required and experience of hardware triggering or DAQ systems would be an advantage. Some knowledge of firmware would be helpful.

FURTHER INFORMATION

For an informal discussion about this post, please contact Dr. Claire Shepherd-Themistocleous email; claire.shepherd@stfc.ac.uk.

To apply online please go to http://www.stfc.ac.uk/About+STFC/364.aspx or for further information about the recruitment process, please contact Alice Reddie on telephone number 01793 867497 or e-mail Alice.Reddie@ssc.rcuk.ac.uk. When submitting an application please also send an email to PPDDIVISIONB@stfc.ac.uk stating that an application has been submitted.

‘STFC is an equal opportunity employer and promotes diversity in its workforce. We are particularly keen to consider applications from groups currently under-represented in the workforce and we are positive about disability.’
Please apply by submitting a CV and Cover Letter highlighting your relevant experience and explaining why you are the ideal candidate for this position. You should refer to the job description and position requirements in your application.

Closing date for applications will be 10th April. Interviews will be held STFC Rutherford Appleton Laboratory, Harwell Oxford, Didcot, OX11 0QX

We want to make our application process as easy for you as we possibly can. If you experience any problems in applying for this job, or have any feedback for us about the application process, please contact our Recruitment Hotline on 01793 867497 (8.30am – 5.00pm Monday to Friday). Please quote the appropriate IRC reference number when calling.