University of Glasgow

Department of Physics and Astronomy

Research Assistant in Nuclear Physics

£17,626 - £26,491

Ref. 200/02

The Post

Applications are invited for two Research Assistant posts with the Glasgow Nuclear Physics Group. The research work will involve experiments at the electron accelerators at DESY and MAMI, Germany, and at Jefferson Lab, USA. Applicants should have, or will obtain shortly, a PhD in experimental physics, preferably experimental Nuclear or Particle Physics. Experience in instrumentation in Nuclear or Particle Physics would be an advantage.

The Nuclear Physics Group

The Glasgow Nuclear Physics Group works with electron and photon beams at MAXlab, Lund, Sweden; MAMI, Mainz, Germany; Jefferson Laboratory, Newport News, USA, and DESY, Hamburg, Germany to investigate the structure of nuclei and nucleons.

The group currently has six academic, five research, and three technical staff and thirteen research students. For the real photon experiments of the A2 Collaboration at MAMI, we constructed and operate the Glasgow photon tagging spectrometer, large solid angle pion and proton hodoscopes, and large area neutron time-of-flight detectors, which are also used for virtual photon induced experiments at the Three-Spectrometer Facility of the A1 Collaboration at MAMI. New technical projects at MAMI are the upgrade of the Glasgow Tagger and the design and construction of the vertex detector for the Crystal Ball. Together with US universities, we are presently designing and setting up the linearly polarised high-energy photon beams at Jefferson Lab, and the trigger and particle identification focal plane detector system of the large acceptance magnetic spectrometer BigBite, and participate in the 12 GeV upgrade project GlueX, Hall D. At DESY, we are leading the Recoil Detector project of the HERMES Collaboration. In particular, we are responsible for the readout electronics of the silicon tracking-detector.

Current data taking (spring/summer 2002) includes experiments on short-range nucleon-nucleon correlations, real and virtual Compton scattering on the proton, the electric form factor of the neutron, medium modifications of nucleon resonances, halo nuclei, and background tests for the HERMES Recoil Detector.

Further details can be found at http://www.physics.gla.ac.uk/npgroup/ .

Informal inquires to Prof. G. Rosner, Tel: +44 141 330-2774 (or -4709), E-mail: g.rosner@physics.gla.ac.uk .

Please send your application (2 copies) including CV and quoting Ref. 200/02 to Prof. G. Rosner, Department of Physics and Astronomy, University of Glasgow, Glasgow G12 8QQ, United Kingdom.

Closing date: 31 May 2002.