School of Physics & Astronomy

Lecturer in Near-field Optics of Nanostructured Systems & Lecturer in Nanodevice & Nanostructure Fabrication

The Nottingham Nanoscience group currently comprises five academic members of staff, five postdoctoral researchers, and 14 PhD students. Research in the group spans a broad range of topical themes in nanoscience including single molecule manipulation and spectroscopy, self-assembly near to and far from equilibrium; pattern formation in nanostructured systems; polymer, protein and biomolecule adsorption and thin films; electronic structure and charge transfer dynamics in organic and nanoparticle systems; scanning probe instrument development; and synchrotron-based spectroscopy. As part of an expansion of our nanoscience research activity, applications are invited for the above posts.

Candidates should have a proven background in experimental research and an international profile in one or more of the following areas:

Post 1 – Conventional or apertureless scanning near field optical microscopy, tip-enhanced Raman/fluorescence spectroscopy, plasmonics, and/or ultrafast near-field spectroscopy. Please quote ref. RUB/699S.

Post 2 – Self-assembly and pattern formation in nanostructured systems close to/far from equilibrium, directed assembly via external fields, molecular electronics, nanoparticle devices, single molecule manipulation, e-beam lithography, and/or soft lithography. Please quote ref. RUB/700S.

Informal enquiries may be addressed to Professor P Moriarty, tel: 0115 951 5156 or Email: Philip.Moriarty@Nottingham.ac.uk. Further information relating to nanoscience activity is available at: http://www.nottingham.ac.uk/research/nano.

Lecturer in Experimental Physics

The Nottingham Granular Dynamics Group currently comprises four academic staff, two postdoctoral researchers and 11 PhD students. Its research programme currently includes the behaviour of granular systems under excitation; non-linear dynamics; the effects of fluid-grain interactions; clustering, correlation; separation and pattern formation; waves and instabilities; the behaviour of non-spherical particles; the impact of cohesion; all in normal and reduced gravity. The studies encompass experimentation, computer simulation and theoretical modelling. As part of an ongoing commitment to excellent research, applications are invited for the above post.

A Lecturer is required with considerable experimental expertise whose research interests encompass this existing activity and extend it into related areas of hydrodynamics and soft condensed matter. Please quote ref. RUB/701S.

Informal enquiries may be addressed to Professor P King, Email: P.J.King@nottingham.ac.uk or Dr M Swift, Email: Michael.Swift@Nottingham.ac.uk. Further information about the Nottingham Granular Dynamics Group is available at: http://www.nottingham.ac.uk/~ppzmrs/granular.

Candidates for all posts must have a PhD in physics or a related subject. The successful candidates will be expected to contribute effectively to teaching in the School, which has high student numbers and an innovative teaching and learning strategy.

Salary will be within the range £23,643 - £35,883 pa, depending on qualifications and experience. These posts are available from 9 January 2006, or as soon as possible thereafter.

Further information about the School is available at: http://www.nottingham.ac.uk/physics.

Further details and application forms are available on the WWW at: http://www.nottingham.ac.uk/hr/vacancies/academic.html or from the Human Resources Department, Highfield House, The University of Nottingham, University Park, Nottingham NG7 2RD. Tel: 0115 951 3262. Fax: 0115 951 5205. Please quote relevant reference number.

Closing date: 1 August 2005.