



Post Doctoral Fellow (Molecular Electronics)

**Department of Physics and Astronomy,
University of Canterbury, Christchurch, New Zealand**

Job ID: 1320
Closing date: 6 August 2011
Review date: 4 July 2011

Applications are invited from suitably qualified candidates for a two year fixed term post doctoral fellowship working on the assembly of molecular systems and exploration of their properties using scanning probe microscopy.

The successful applicant will undertake research in relation to the project "Organised assemblies of functional molecules on surfaces investigated by scanning tunnelling microscopy". The project has been funded by the MacDiarmid Institute for Advanced Materials and Nanotechnology, a national Centre of Research Excellence (<http://www.macdiarmid.ac.nz/>).

The successful candidate will have a PhD in physics, chemistry or a related discipline and research experience in UHV scanning probe microscopy and chemical functionalisation of surfaces as well as one or more of: lithography or other device fabrication techniques; electrical characterisation of nanoelectronic devices; electron microscopy; computer simulations; data analysis.

Enquiries of an academic nature may be made to Dr Simon Brown (simon.brown@canterbury.ac.nz) or see <http://www.phys.canterbury.ac.nz/research/nano/>. The project makes use of the molecular tethering strategies developed by Prof Alison Downard in the Department of Chemistry at UC, and the PDF will work closely with Alison's group.

For further information and to apply online visit please visit http://www.canterbury.ac.nz/hr/job_vacancies.shtml

Download the full Position Description from here: https://ucvacancies.canterbury.ac.nz/PositionDescriptions/Postdoc_Molecular_Electronics_June11.pdf

Applications for this position should include a cover letter, curriculum vitae, university transcripts and a brief statement of research interests and goals. Applicants should also indicate the names and contact details of three referees.