



**The MacDiarmid Institute**  
*for Advanced Materials and Nanotechnology*

Postdoctoral Fellowships:

- **electrocatalytic metal nanocrystals**
- **biophysics and soft matter**

The MacDiarmid Institute for Advanced Materials and Nanotechnology is New Zealand's premier research organisation concerned with high quality research and research education in materials science and nanotechnology. The Institute is a collaborative venture encompassing the knowledge and expertise of leading researchers and research facilities.

The MacDiarmid Institute is offering four Post Doctoral research Fellowships (PDF) across two of our strategic research areas: Electrocatalytic Metal Nanocrystals, and Biophysics and Soft Matter. These positions will be appointed across three of our host institutions. It is anticipated that the successful PDF applicants will be available to commence employment in March 2012.

### **Research Project 1: Electrocatalytic Metal Nanocrystals**

(this project is focused on undertaking research for specific commercial goals).

- PDF 1a will be involved in research on the assembly of nanomaterials on high surface area supports and their electrocatalytic properties. This PDF will primarily be based at the University of Canterbury in Christchurch (Job reference: 1449). Later in the project the PDF will spend periods of time at Massey University in Palmerston North.

- PDF 1b: The post will involve research on preparation and characterisation of metallic nanocrystals. The PDF will be employed at Massey University in Palmerston North (Job reference: A348-11) but spend extensive periods of time at Victoria University of Wellington.

### **Research Project 2: Biophysics and Soft Matter**

- PDF 2a will be based in Christchurch at the University of Canterbury (Job reference: 1438), and will be responsible for the development of an array of techniques and protocols for the controlled growth of functionalized protein fibrils.

- PDF 2b will be based at Massey University in Palmerston North (Job reference: A355-11), and will use a suite of state-of-the-art biophysical tools, including Holographic Optical Tweezers, to apply and measure forces on systems ranging from single molecules to assembled fibrils.



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Those applicants seeking positions PDF 1a or PDF 2a should seek further information at: [http://www.canterbury.ac.nz/hr/job\\_vacancies.shtml](http://www.canterbury.ac.nz/hr/job_vacancies.shtml) while those seeking positions PDF 1b or PDF 2b should seek further information from <http://jobs.massey.ac.nz/Content/Massey/Welcome.aspx>.



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