



The MacDiarmid Institute
for Advanced Materials and Nanotechnology

PhD Positions:

- **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 three PhD positions 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.

research project 1: electrocatalytic metal nanocrystals

A range of PhD topics are offered across this project for one PhD position (PhD 1). Those students interested in the following research areas should contact the indicated researcher:

- The assembly of nanomaterials on surfaces: Prof. Alison Downard, alison.downard@canterbury.ac.nz
- Controlled growth of metal nanocrystals: Assoc. Prof. Richard Tilley, Richard.Tilley@vuw.ac.nz
- Electrocatalytic properties: Prof. Simon Hall, s.b.hall@massey.ac.nz

research project 2: biophysics and soft matter

PhD 2a will be based at Massey University in Palmerston North, and will work towards a PhD degree pursuing methodologies for the computational modeling of biopolymeric networks. Students interested in this position should seek further information from Assoc. Prof. Martin (Bill) Williams at m.williams@massey.ac.nz.

PhD 2b will be based at Victoria University in Wellington and will work towards a PhD degree developing experimental tools appropriate for the measurement of the emergent bulk mechanical properties of assembled networks. Students interested in this position should seek further information from Prof. Kate McGrath Kate.McGrath@vuw.ac.nz.