Macquarie’s Earth sciences research is world leading. In the Excellence in Research for Australia (ERA) 2012 evaluation our Earth sciences research received a rating of 5 out of 5 – ‘performance well above world standard’.

We are home to Future Fellows, a Fellow of the American Geophysical Union, a Fellow of the Mineralogical Society of Great Britain and Ireland, a Young Scientist of the Year, and Young tall poppy science award winners. Thomson ‘Essential Science Indicators’ rates two of our researchers in the top 30 geoscientists in the world, and top 3 in Australia; and two researchers are ISI Highly Cited.

Our Earth sciences research is primarily focused on an interdisciplinary approach to studying the solid Earth which integrates geochemistry, petrology, geophysics and geodynamics; and on climate science, fluvial systems, coastal dynamics, and environmental management of different land use contexts.

As an HDR candidate you will have the opportunity to research alongside some of the best academics and researchers not just in Australia but the world, and have access to outstanding facilities.
Highlights

• In the Excellence in Research for Australia (ERA) 2012 initiative our research in the sub-disciplines of geochemistry, geology, geophysics, and physical geography and environmental sciences also received a rating of 5 out of 5 – ‘performance well above world standard’.

• Macquarie hosts the ARC Centre of Excellence for Core to Crust Fluid Systems and the ARC National Key Centre for Geochemical Evolution and Metallogeny of Continents.

Support

HDR candidates are provided with strong academic and administrative support. This includes:

- Commencement and Completion programs
- Discipline-specific research training units, including workshops in research communication, presentation skills, academic writing skills, thesis planning, and poster preparation
- Experienced supervisors and department-based higher degree research directors
- Financial support for research project costs, including top-up scholarships from industry
- Regular progress reports and interviews, and/or work-in-progress presentations in which research candidates receive feedback on their work from a panel of academics in their field

Research leaders

Macquarie is home to many internationally renowned researchers, including:

Professor Bill Griffin is the second most-cited Australian geoscientist and is ranked 11 in the world. An elected Fellow of the Geochemical Society, his research interests include petrology and geochemistry of the deep crust and lithospheric mantle, magma generation and metasomatism in the crust and mantle, isotopic systems and their resetting; and the development of techniques for in-situ microanalysis of trace elements and isotopic compositions.

Professor Sue O’Reilly is the director of the ARC Centre of Excellence for Core to Crust Fluid Systems, which is developing new frameworks for mineral and energy exploration. She is the third most-cited Australian geoscientist and is ranked 17 in the world, is an elected Fellow of the Australian Academy of Sciences, and in 2003 received the Australian Government Centenary Medal for services to Geosciences.