**Research Associate - *TerraneChron®* Data and Geochemical Development Scientist**

* **Salary Package: Level A, Step 6 (PhD)** from $91,991 - $98,588 p.a., plus 17% employer's superannuation and annual leave loading
* **Appointment Type:** Full-time, 2 years fixed term
* **Macquarie University (North Ryde) location**

[The ARC Centre of Excellence for Core to Crust Fluid Systems](https://admin.pageuppeople.com/v5.3/provider/manageJobs/www.ccfs.mq.edu.au) (CCFS) is a world class research hub for multidisciplinary studies of Earth's coupled solid and fluid systems.  Macquarie University is the administering institution for the three Australian nodes including University of Western Australia and Curtin University with the Geological Survey of Western Australia as a national partner, and four international partner institutions.  The overarching goal of CCFS is to understand Earth's internal dynamics, evolution and fluid cycles from core to crust. CCFS multiplies the capabilities of three national centres of research excellence in Earth and Planetary Sciences.

MQ Geoanalytical is a leading facility with a concentration of world-class instrumentation and geochemical laboratories (<http://ccfs.mq.edu.au/Tech/Tech.html>): it provides analytical facilities for research projects funded by the Australian Research Council, other government grants and industry collaborations, and is one of three national geochemical nodes for the NCRIS AuScope Capability.  MQ Geoanalytical attracts a large number of national and international researchers annually as well as providing geochemical analytical support for all staff, postgraduates and senior undergraduates across Macquarie University.

Macquarie is a university engaged with the real and often complex problems and opportunities that define our lives. Since our foundation 55 years ago, we have aspired to be a different type of university. Over the years, we’ve grown to become the centre of a vibrant local and global community. [Connect with us today](https://www.mq.edu.au/).

**The Role**

We are seeking a suitably qualified Research Associate to join a team with an international reputation for producing high quality research in Earth and Planetary Sciences. You will undertake research related to the AuScope Geochemistry Laboratory Network at Macquarie. As the Data and Geochemical Development Scientist, you will be responsible for organizing laboratory data collections, working with the AuScope Virtual Research Environment (AVRE) team to publish in the AuScope Discovery Portal. You will engage with NCRIS ARDC (The Australian Research Data Commons) to ensure systematic sample documentation to enable accessibility of AuScope data sets, and participate in related geochemical analytical initiatives and delivery at the Macquarie AuScope node. You will also undertake high-quality research related to Earth’s mantle and crustal rocks and their microstructures, detrital heavy mineral concentrates for isotopic mapping, zircon geochronology, and development of geochronology potential of other accessory minerals in the ARC Centre of Excellence for Core to Crust Fluid Systems and GEMOC. You will also provide support for entrepreneurial activities to attract additional industry and/or other stakeholders and collaborators.

**Selection Criteria**

To be considered for this position applications must respond to the selection criteria below and attach as a separate document in the application process with their curriculum vitae.

**Essential:**

* PhD in a relevant field of geology or geochemistry or equivalent
* Experience in Earth’s crust/mantle-petrology research and advanced sample preparation
* Experience in undertaking isotopic analysis by LA-ICPMS and LA-MC-ICPMS
* Demonstrated ability to manage and interpret complex geochemical datasets and publish leading-edge research
* Demonstrated ability to undertake development of new geochronologic *in situ* techniques and applications
* Demonstrated ability to provide results to external research collaborators such as for *TerraneChron®*, working to schedule and successful project management
* Demonstrated capacity for productive scientific research relative to career stage
* Ability to work effectively in a team environment and contribute positively to an active work milieu

**Desirable:**

* Experience in daily operating procedures and trouble-shooting for at least one of the following instrumental systems: LA-ICPMS and LA-MC-ICPMS
* Experience in managing large datasets and using data management platforms
* Experience in interaction with external collaborators for geochronology projects.
* Experience in fieldwork for relevant sample collection (e.g. detrital heavy minerals concentrates) in remote terrains.

**Specific Role Enquiries:** Professor Sue O’Reilly sue.oreilly@mq.edu.au

**Applications Close:** Sunday 26th January 2020 at 11:55pm

At Macquarie University, we are committed to providing a working environment where each individual is valued, respected and supported to progress. Our priority is to ensure culture, policies and processes are truly inclusive and that no-one is disadvantaged on the basis of their Aboriginal and Torres Strait Islander identity, gender, culture, disability, LGBTIQA+ identities, family and caring responsibilities, age, or religion. We encourage everyone who meets the selection criteria and shares Macquarie University’s values of scholarship, empowerment and integrity to apply.

Learn more about our progress towards [*Equity, Diversity and Inclusion*](https://staff.mq.edu.au/work/diversity-and-community).

Applications need to be submitted through the Macquarie University online recruitment system. Where circumstances such as disability or remote location prohibit your access to our online system please contact the enquiries person listed in this advertisement for assistance.

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