



Research Scholarship: apatite as a probe of crustal evolution

Status: **Closed**

Applications open: 25/05/2020

Applications close: 14/06/2020

About this scholarship

Description/Applicant information

We are seeking candidates for **TWO fully-funded** PhD student scholarships: The scholarships are funded as part of a prestigious Australian Research Council Discovery project that aims to develop the mineral apatite as a probe of crustal evolution and are joint projects between the School of Earth and Planetary Sciences, Curtin University (Perth) and the Department of Earth Sciences, University of Adelaide.

Applications are invited for the following topics:

Perth project: **Crustal evolution tracked using isotopic signatures in apatite.** This project will involve both laboratory and field aspects. The work will date apatite and then constrain its Nd and Sr isotopic signature, as a means of tracking crustal growth. A range of case studies locations in different geological settings through Earth history will be investigated including localities in Australia, Greenland, Norway, Ireland and the UK.

Adelaide project: **Apatite as a vector for mineralisation and mineral preservation.** This project will evaluate the geochemical 'durability' of apatite and use thermochronology to characterize the crustal exhumation level of exploration prospects. In more detail, the project involves fission track and U-Pb thermochronology as well as trace element and Sr-Nd geochemical characterization of legacy and new sample material from Australia (and potentially from Antarctica). This project is also affiliated with <https://minexcrc.com.au/>.

Both departments in Adelaide and Curtin are research-intensive with excellent national and international reputations in the field of Earth Sciences (both achieved the maximum ranking of 5 for Earth Science and sub-disciplines Geology and Geochemistry in the most recent Excellence in Research for Australia assessment). Students will receive full training in relevant analytical techniques, using state-of-the-art instrumentation.

Student type

- Future Students

Faculty

- Faculty of Science & Engineering
 - Science courses

Course type

- Higher Degree by Research

Citizenship

- Australian Citizen
- Australian Permanent Resident
- New Zealand Citizen
- Permanent Humanitarian Visa
- International Student

Scholarship base

- Merit Based

Value

The successful candidate shall receive a stipend valued at \$28,092 per annum, tax-free (indexed annually).

- The duration of the scholarship is three years with a possible extension of up to six months providing that the student meets eligibility guidelines as per the conditions of award.
- In addition, this scholarship will include a tuition fee waiver for a successful international candidate.

Scholarship Details



Maximum number awarded

2

Eligible courses

The applicant(s) must meet the academic entry requirement for admission into a Doctor of Philosophy (PhD) program, including the English proficiency levels set by Curtin University <https://research.curtin.edu.au/postgraduate/>.

Eligibility criteria

The applicant(s) must meet the minimum entry requirement for admission into Doctor of Philosophy (PhD) program <https://study.curtin.edu.au/offering/course-research-doctor-of-philosophy---applied-geology--dr-geolv1/>

The following criteria is desirable:

- Candidate(s) should have relevant research experience in the form of a written thesis at BSc (Honours Dissertation) or MSc level.
- Demonstrated background and interest in geochronology, thermochronology and/or geochemistry.
- Proven ability in dissemination of scientific results.
- Self-reliant and have excellent communication skills.

Enrolment requirements

The successful candidate(s) will be required to enrol full-time into the Doctor of Philosophy program and meet their Milestone (candidacy) requirements.

Changes to Enrolment

The successful candidate(s) must enrol into a Doctor of Philosophy (PhD) program (full-time study mode).

Withdrawal or Terminated from course: A recipient who withdraws from their PhD, or has been terminated from their doctoral studies will become ineligible for the continuation of the scholarship.

How to apply

Application process

To apply, please email an expression of interest to Stijn Glorie (stijn.glorie@adelaide.edu.au) titled with your **surname** and "**Apatite PhD application**" together your CV and brief letter (*as described below*) combined as a SINGLE PDF (maximum 6 pages of A4):

1. **A copy of your CV.**
2. **A brief letter addressing:**
 - how you meet the eligibility requirement; and
 - explaining your research interests and preferred choice of project (including some rationale for that choice).
3. **The contact details of three referees.**

The shortlisted candidates will be interviewed, and the preferred candidates identified, in early July, if possible.

The successful candidate will be advised to apply for admission via Curtin University online e-application <https://study.curtin.edu.au/applying/research/>.

Need more information?

Enquiries

For further information please contact:

Requests for further details and/or any other questions can be directed via email to:

Dr Stijn Glorie (stijn.glorie@adelaide.edu.au) or Professor Chris Kirkland (C.Kirkland@curtin.edu.au) with the subject line: "*Apatite PhD*".