



PhD position in Geochemistry and Igneous Petrology

The [Earth Dynamics Research Group](#) at Curtin University has an open PhD position for research into verifying the pre-Cretaceous oceanic mantle plume record. The candidate will join a diverse team of researchers working on supercontinent cycles and global geodynamics led by ARC Australian Laureate Fellow Prof. Z.X. Li, within the [School of Earth and Planetary Sciences](#). The available position is 3-4 years full-time with the successful applicant being offered a competitive scholarship stipend.

This project aims to investigate basaltic occurrences that have *prima facie* evidence for being either an accreted oceanic plateau or intraplate oceanic island. Potential field targets for this project could be in Phanerozoic orogens around the Pacific Rim, or elsewhere. This project would involve detailed geochemical (i.e. major and trace elements, Nd, Sr, and Pb isotopes and microprobe analysis if sample preservation allows) and petrological analyses, alpha-MELTS modelling, acquisition of new age constraints from their respective terranes, along with structural and field mapping to provide robust evidence for their respective petrogenesis and tectonic setting.

Requirements:

Applicants must have either 1st class Honours (or equivalent qualification with research experience) or a MSc in the Earth sciences or other relevant fields.

Applicants should meet University English Language Requirements (available [here](#)).

Experience working both with databases and in the field will be beneficial.

How to express your interest:

Please contact **Dr Josh Beardmore** (josh.beardmore@curtin.edu.au) if you are interested in developing an application. Please include the following:

- A curriculum vitae and a copy of any publications (if applicable).
- Details of BSc (Hons.) and MSc including: copies of transcripts showing lists of courses with grades and the abstract of your thesis (if applicable).
- A brief statement about your research interests, motivation and skills.
- Names and contact details of three references that may be contacted for a recommendation letter.