2019 - PhD Scholarship for Science Education

Status: Open
Applications open: 1/05/2019
Applications close: 31/08/2019

About this scholarship

Description/Applicant information
One PhD scholarship (covering the living stipend for three years) is available for the holder to conduct a research study that investigates students’ interactions in drawing science diagrams and their benefits in enhancing students’ scientific creativity. The project is funded by the Australian Research Council (ARC) under the Discovery Project grant scheme (DP180100143). The project aims to engage students in scientific thinking and build their creative problem-solving capabilities through evidence-based teaching strategies.

This project is addressing the challenge by:
(1) identifying students’ creative thinking from their science diagrams and their interaction with peers;
(2) devising and evaluating teaching strategies to support students’ creative scientific thinking. The PhD students will work with high school science teachers to develop teaching materials, video-record classroom interactions, conduct interviews, analyse class videos and diagrams, and write peer-reviewed journal articles.

The successful PhD student will be supervised by a team of experienced science education researchers (Dr Mihye Won and Professor David F. Treagust) from the STEM Education Research Group (formerly Science and Mathematics Education Centre—SMEC) at Curtin University, Perth, Australia.

Student type
- Current Students
- Future Students

Faculty
- Faculty of Humanities

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
A successful International candidate will be awarded a tuition fee offset scholarship valued at $36,400 per annum for 3 years. Domestic and International candidates will receive a living stipend valued at $27,596 per annum for 3 years.

Scholarship Details

Maximum number awarded
1

Eligibility criteria
Candidates for these PhD scholarships are expected to:
• Hold an undergraduate degree in science education at a high level (honours) of academic achievement;
• Demonstrate an aptitude for research through their analytical skills and creative thinking;
• Be able to work in a team setting and take responsibility for their individual tasks;
• Be experienced in the use of digital technology and software packages;
• Possess excellent spoken and written communications skills that may be evidenced, for example, through their undergraduate thesis/project work and presentations given; and
• Practise well-developed time- and self-management skills with strong personal discipline and drive in their work.

Enrolment requirements
Must be enrolled full-time.

How to apply

Application process
Interested applicants should contact Dr Mihye Won, (mihye.won@curtin.edu.au, +61-8-9266-4074) with their CV, transcripts, and short statements (1 page) outlining why they should be considered for the scholarship.
Shortlisted applicants will be contacted to apply for interview.
Scholarship is subject to approval of admission at Curtin in the HDR course.
Applications can be made immediately and will remain open until the position is filled.

Need more information?

Enquiries
For more detail or informal discussion of the research project and/or your suitability, please contact: Dr Mihye Won, (mihye.won@curtin.edu.au, +61-8-9266-4074).