PhD Scholarship to investigate Chemistry Learning in Immersive Virtual Reality (ARC funded)

Status: Closed
Applications open: 7/01/2019
Applications close: 31/05/2019

About this scholarship

Description/Applicant information
Two merit-based PhD scholarships are available for the holders to conduct research in a project that is funded by the Australian Research Council (ARC) Discovery Project scheme. The project aims to investigate the potential of advanced visualisation technology—immersive virtual reality—as a collaborative learning environment to support students to explore their ideas and learn a core chemistry concept, molecular structures and functions. Incorporating both data analytics and qualitative video analysis, the project will establish an understanding of how students learn about the molecular world within an immersive virtual reality environment in relation to the learners’ experience, chemistry content, visual representations, learning tasks, and design features.

The PhD students will collect and analyse the students’ interactions within the virtual reality environment using qualitative video data and quantitative analytics data. The successful PhD students will be supervised by a team of experienced science education researchers (Dr Mihye Won, Professor David F. Treagust, Associate Professor Mauro Mocerino, and Dr Kok-Sing Tang) at Curtin University, Perth, Australia.

Student type
- Current Students
- Future Students

Faculty
- Faculty of Humanities

Course type
- Higher Degree by Research

Specifically for
- Curtin students wanting to study overseas

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

Scholarship base
- Merit Based

Value
Tuition fees support (for international students, $36,400 per year) for 3 years
Living stipend ($27,596 per year) 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 or relevant field at a high level (honours) of academic achievement;
• Demonstrate an aptitude for research through their analytical and critical thinking skills;
• 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 for interview. Scholarship is subject to approval of admission at Curtin University 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).

Further information
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