PHD SCHOLARSHIP

The School of Civil Engineering at The University of Queensland (Brisbane, Australia) is offering a PhD scholarships for a motivated students to contribute to research being undertaken within the Geotechnical Engineering Centre (GEC) within the School of Civil Engineering. The successful student will be funded through the GEC project, Assessing the Use of SSR-SARx for Monitoring Tailing Dams. Potential students with an interest in natural hazard risk modelling and wind engineering are strongly encouraged to apply. The scholarships will be for three (3) years and valued at $26,288AUD per year. Top-up scholarships and international student fee-waivers are also available to exceptional candidates.

PROJECT INFORMATION

Project Title: Assessing the Use of SSR-SARx for Monitoring Tailing Dams

The project involves an investigation into the use of innovative radar technology (GroundProbe’s new SSR-SARx technology).

The following objectives will be achieved:

1. Short term goals:
   a. Assess the viability of using the SSR-SARx technology in monitoring tailing dams.
   b. Develop publishable case studies demonstrating the successful application of the technology.
   c. Produce insightful and descriptive deformation images with analysis in order to promote acceptance of the technology as a viable method to monitor tailing dams.

2. Medium term goals:
   a. Assist GroundProbe in the development of internal guidelines on how to optimise the use of the technology for this application.
   b. Produce a mixed radar and geotechnical paper with basic outcomes on the ability of the SSR-SARx to characterise deformation processes in tailings dams and documented results that could be co-authored and co-presented within the next 12 months in conferences.

3. Long term goals:
   a. Assist GroundProbe in developing internal learning on best practices after collecting significant experience using the system in tailings dams.

QUALIFICATIONS

Candidates must hold a relevant undergraduate or Master’s degree in Mining or Engineering Geology. Preference will be given to candidates with industry experience in the use of radar monitoring systems applied to mining applications.

HOW TO APPLY

Interested candidates should submit their scholarship application on the Application for school-based PhD or MPhil scholarship form, together with your supporting documents on the RHD online application system.

Details on the application for admission and scholarship process can be found at http://www.civil.uq.edu.au/RHD-application-process.

For further details on the scholarship project, please contact Prof. Marc Ruest at m.ruest@uq.edu.au.

Submission due by 18/12/2015