



PhD position at the University of Adelaide, South Australia

We are seeking a highly motivated PhD candidate for a research project supported by Australian Centre for Geomechanics (ACG) and industry partners based in Adelaide, South Australia.

This research will focus on the mechanisms which controls violent/non-violent rock failure. It includes an extensive experimental study to investigate true post-peak behaviour of a wide range of rocks being collected from different deep mines in Australia and other countries. To do so, consider the test process/procedure which might affect the failure behaviour of rock, effective and relevant experimental methods should be developed. The candidate is expected to effectively apply new cutting-edge lab testing techniques (3D Digital Image Correlation, high-pressure triaxial cell, SEM and Acoustic Emission) to investigate rock failure mechanism. The experimental work will lead to development of models to investigate rock burst vulnerability.

Requirements:

We are looking for a highly-motivated and enthusiastic candidate with a First Class Honours degree or above (or equivalent) in Mining or Civil Engineering.

A good knowledge of rock mechanics is essential. Civil engineering graduates with knowledge of soil mechanics will be considered as well. Excellent communication skills, both verbal and written is required. This is an experimental intensive project, a basic understanding and experience of rock testing will be beneficial.

Funding:

Full Scholarship at level of RTPS rate (indexed annually) which is \$26,694 per annum for 2018. There will also be some support available to cover project costs and to claim for limited conference attendance. The scholarship length will be 3 or 3.5 years, depending on the qualifications and training needs of the successful applicant.

Application:

This full-time position is available to start from September 2018. To apply please email your academic transcripts, along with your CV, two referees and publications to Dr. Abbas Taheri, abbas.taheri@adelaide.edu.au

Applications should be received via email by **20 June 2018**. Shortlisted candidates will be invited for a face-to-face or online interview.

The candidate needs to meet the University of Adelaide minimum language requirements which were set out in the following link:

<http://www.adelaide.edu.au/graduatecentre/handbook/03-considerations-in-applying/02-entry-requirements/03-english-language/>