PhD Scholarship available in Australian Research Council Centre of Excellence for Geotechnical Science & Engineering (CGSE), The University of Newcastle.

We are seeking a PhD student to develop a structured model for soft soil through laboratory stress and strain path testing.

Soil mechanics theory has been based on laboratory tests that use reconstituted soil. However, all soil has fabric and structure and behaves differently to most conventional models. This project will involve state-of-the-art testing of high quality soil samples from the Ballina Soft Soil Test Facility and the development of a structured soil model.

Key aspects of the work will include the definition of structured and reconstituted yield surfaces, flow rules incorporating destructuration, and rate effects.

The scholarship stipend will depend on the merit of the candidate, and will be in the range of $30,000 – $35,000 p.a. for three years.

Please submit expressions of interest along with a copy of your CV to Dr Jubert Pineda, E: Jubert.Pineda@newcastle.edu.au, who can also supply further information.

Closing Date for Applications: 30 Sept 2013.

This scholarship is available to commence immediately.