



College of Engineering

Civil and Infrastructure Engineering

**Fully Funded Ph.D. Student Position in “Resilient Foundations in Calcareous deposits Offshore Australia”**

A PhD student is sought for a position in “*Resilient Foundations in Calcareous Deposits Offshore Australia*” with an intended start date in January 2024 in the multi-institutional EcoEnergy GeoLab at Royal Melbourne Institute of Technology (RMIT) with collaborations across other labs and universities.

The aim of the project is to demonstrate the feasibility of vibratory driving for pile foundations supporting wind farms in Calcareous deposits offshore the Australia seaboard. In particular, the project aims to quantify the effect of pile installation on the soil state using purpose-based centrifuge tests allowing one to validate the numerical model. In addition, the advanced laboratory testing program including cyclic soil tests in carbonate soils are part of this research.

**Qualification requirements:**

- Advanced skills in numerical and experimental modeling (geotechnical centrifuge) of soil-structure interaction problems
- Strong academic and research background in soil-structure interaction and constitutive modeling
- Strong communication skills
- M.S. degree in Geotechnical Engineering

**To Apply:** Applicants must send their application documents (cover letter, CV, transcripts, publication(s), and contact information for two references) via email ([amin.barari@rmit.edu.au](mailto:amin.barari@rmit.edu.au)). Review of applications will start immediately and continue until November 15, 2023.