



PhD Positions

Develop novel technologies for modelling erosion of dams for climate extremes.



Funded through an Australian Government Cooperative Research Centre Project (CRC-P) titled "Smart Tech for Safer Dams: Tackling Erosion with Innovation"

Roles available:

- Automated 3D digital models for rock erosion assessment
- CFD-informed erosion interpretation and comparative design methods
- Coupled computational modelling of spillway erosion

What's on offer:

- Work closely with industry partners (Pells Consulting, Sunwater) to solve complex real-world challenges
- Full scholarship to conduct research within a multidisciplinary team at UNSW.
- Start date: January, 2027

Who are we looking for?

Requirements:

- ◀ A first-class Honours degree in civil engineering, geotechnical engineering, hydraulic engineering, engineering geology, or related field;
- ◀ A strong interest in dams, hydraulics, geotechnics, engineering geology or computational modelling;
- ◀ Strong analytical, computational and written communication skills;
- ◀ Enthusiasm for applied research with real industry impact;
- ◀ Willingness to work collaboratively across university and industry settings;
- ◀ Where relevant, interest in fieldwork, UAV/USV data, CFD, DEM, coding or geological modelling.

*For further information, please contact Dr Adnan Sufian
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