Position Summary

A Research Associate (Level A) is expected to contribute towards the research effort of UNSW and to develop their research expertise through the pursuit of defined projects relevant to their particular field of research.

The role of Research Associate reports to Prof Will Glamore and Dr. Andrew Dansie and has no direct reports.

Accountabilities

Specific accountabilities for this role include:

• Contribute independently or as a team member on a large international collaborative research project in the Pacific with a focus to provide specific knowledge contribution essential to the success of the overall project.
• Conduct research and/or enable research teams to create scholarly output that is recognised by peers.
• Undertake specific research project/s under the guidance of a research leader and contribute to development of research activities.
• Support the dissemination of research outcomes through appropriate channels and outlets.
• Undertake discipline-appropriate research activities, e.g. surveys, literature reviews, data gathering and/or recording of results using appropriate research methods.
• Participate in and/or present at conferences and/or workshops relevant to the project as required.
Assist with the supervision of research students in the research area where required.
Design and develop floating structures that will support floating mangrove forests both in laboratory and real-world settings based on physical scale modelling and prototype testing.
Undertake complex investigation using physical models via wave flumes studies related to structure stability under changing biomass conditions and other factors including wave attenuation, benthic interaction, shoreline protection, severe weather resilience.
Transfer laboratory findings to inform real-world implementation and in situ testing in a Pacific Island location in partnership with local partners.
Align with and actively demonstrate the UNSW Values in Action: Our Behaviours and the UNSW Code of Conduct.
Cooperate with all health and safety policies and procedures of the university and take all reasonable care to ensure that your actions or omissions do not impact on the health and safety of yourself or others.

Skills and Experience
- A PhD in a related discipline, and/or relevant work experience.
- Experience in coastal engineering, especially in relation to floating structures and coastal protection.
- Experience designing and testing engineering and environmental solutions using physical models.
- High numerical and computational skills to manage large datasets and produce detailed analyses.
- Experience in eco-engineering and nature-based solutions, and/or an interest to develop a career in this area.
- Proven commitment to proactively keeping up to date with discipline knowledge and developments.
- Demonstrated ability to undertake high quality academic research and conduct independent research with limited supervision.
- Demonstrated track record of publications and conference presentations relative to opportunity.
- Demonstrated ability to work in a team, collaborate across disciplines and build effective relationships.
- Willingness to work as part of an international team and undertake travel overseas as required.
- Evidence of highly developed interpersonal skills.
- Demonstrated ability to communicate and interact with a diverse range of stakeholders and students.
- An understanding of and commitment to UNSW’s aims, objectives and values in action, together with relevant policies and guidelines.
- Knowledge of health and safety responsibilities and commitment to attending relevant health and safety training.
Pre-employment checks required for this position

• Verification of qualifications

About this document

This Position Description outlines the objectives, desired outcomes, key responsibilities, accountabilities, required skills, experience and desired behaviours required to successfully perform the role.

This template is not intended to limit the scope or accountabilities of the position. Characteristics of the position may be altered in accordance with the changing requirements of the role.