



**UNIVERSITY OF NEW SOUTH WALES (UNSW Sydney)
SCHOOL OF CIVIL AND ENVIRONMENTAL ENGINEERING**

PhD Research Scholarship

NUMERICAL SIMULATION FOR MARITIME PLATFORMS

The Research Topic. A PhD scholarship is available immediately for studies focused on the structural behaviour and response of maritime platforms, such as commercial and naval vessels and offshore platforms, when exposed to severe sea-states. The effects of structural deterioration due to fatigue and corrosion will also be investigated. The research project is funded through an Australian Research Council (ARC) Linkage Project and by industry partners with the aim of developing evidence-based computational tools for the management of maritime platforms exposed to both time-dependent harsh operational environments and structural deterioration.

The scholarship is available for enrolment and living support for PhD study in Engineering in the School of Civil and Environmental Engineering, UNSW. The research project will be based primarily at the UNSW Kensington campus under the supervision of Professor Chongmin Song.

Research Group. The successful applicant will work with the Research team which includes Professor Chongmin Song, Professor Robert Melchers (University of Newcastle) and Adjunct Professor Martin Renilson (University of Tasmania).

The successful applicant will also collaborate with Research Group team members Pacific Engineering Systems International (Pacific ESI) and the Defence Science and Technology Group, based in Sydney and Melbourne respectively. This may entail significant time on-site with one of these partners.

Scholarship Terms and Conditions. The scholarship stipend is \$31,000 per annum, tax exempt, for three years with a possible 6 month extension. For a suitably qualified and experienced applicant, this stipend may be supplemented by a tax free “top-up” of around \$6,000 per annum for three years.

A relocation allowance of up to \$2,000 may be payable after arrival at UNSW to the successful applicant living outside Sydney to recover travel and removal expenses.

Qualifications Required of Applicants. International and domestic candidates satisfying the following requirements are eligible to apply:

- (1) Have a Bachelor’s or Master’s degree in Civil, Mechanical or Aerospace Engineering, Naval Architecture accredited by either the Institution of Engineers Australia (IEAust) or the Royal Institute of Naval Architects (RINA). The Bachelor’s degree should preferably be at a level of Honours Class 1 or 2 (2/1 or 2/2);
- (2) Able to work independently as well as collaboratively in a team environment with other researchers and the technical staff of the project partners;
- (3) Preferably have some experience in numerical modelling; and
- (4) Be competent in spoken and written English.

Please note that citizens of sanctioned countries ([Sanctions regimes | Australian Government Department of Foreign Affairs and Trade \(dfat.gov.au\)](#)) cannot participate in this project.

Details of the Research Topic. Further information can be obtained from Professor Chongmin Song on (c.song@unsw.edu.au) or Mr Damian McGuckin (damianm@esi.com.au).

How to Apply. Applicants should email their applications to Professor Chongmin Song copied to Mr Damian McGuckin. The application should include:

- (1) A curriculum vitae (CV) of four (4) pages (or less) detailing your academic qualifications, your practical experience and other relevant information;
- (2) Copies of your academic qualifications, including undergraduate and postgraduate and transcripts of subject studied and results;
- (3) A statement why you would like to be involved in this particular project;
- (4) Contact details (only) of two (2) referees, i.e. their names, affiliations and email addresses. (do **not** send copies of references); and
- (5) A statement of when you could begin your studies if appointed.

Applications will be reviewed continuously. Suitable applicants will be invited to attend an interview. The interview will include members of the Research team.