

Research Fellow/Research Engineer (Naval  
Architecture) - WX2  
Singapore Institute of Technology

Direct Link: <https://www.AcademicKeys.com/r?job=232952>

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Posted Mar. 14, 2024, set to expire Jul. 14, 2024

**Job Title** Research Fellow/Research Engineer (Naval Architecture) -  
WX2

**Department** Engineering

**Institution** Singapore Institute of Technology  
Singapore, , Singapore

**Date Posted** Mar. 14, 2024

**Application Deadline** Open until filled

**Position Start Date** Available immediately

**Job Categories** Research Scientist/Associate

**Academic Field(s)** Ocean Engineering  
Civil Engineering

**Job Website** <https://careers.singaporetech.edu.sg/cw/en/job/498621/research-fellowresearch-engineer-naval-architecture-wx2>

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**Job Description**

## Research Fellow/Research Engineer (Naval Architecture) - WX2

**Job no:** 498621

**Department:** Engineering

**Contract type:** Contract

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As a University of Applied Learning, SIT works closely with industry in our research pursuits. Our research staff will have the opportunity to be equipped with applied research skill sets that are relevant to industry demands while working on research projects in SIT.

The primary responsibility of this role is to deliver on an industry innovation research project where you will be part of the research team to develop/produce/investigate a web-based Ship Simulation and Optimisation Software Platform.

### **Key Responsibilities**

- Participate in and manage the research project with Principal Investigator (PI), Co-PI and the research team members to ensure all project deliverables are met.
- Undertake these responsibilities in the project:
  - i. Develop naval architecture calculation and ship design tools based on analytical or empirical methods, i.e., stability calculation, resistance and propulsion estimation, weight estimation, etc.
  - ii. Develop a practical parametric model framework for ship and system design.
  - iii. Carry out naval architecture calculations, i.e., stability, resistance, hydrodynamic analysis, etc.
  - iv. Carry out ship hydrodynamic and CFD simulations.
- Coordinate procurement and liaison with vendors/suppliers.
- Work independently, as well as within a team, to ensure proper operation and maintenance of equipment.

### **Job Requirements**

- Have relevant competence in the areas of naval architecture and ship hydrodynamics.
- Have a degree in Naval Architecture / Marine Engineering / Ocean Engineering / Other Relevant Engineering Degree.
- Possessing a Master's or PhD degree will be advantageous.
- Experience in any programming language will be advantageous.
- Experience in marine hydrodynamics will be advantageous.

### **Key Competencies**

- Able to develop naval architecture calculation and ship design tools
- Able to carry out ship hydrodynamic simulations
- Able to build and maintain strong working relationships with people within and external to the university.

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- Self-directed learner who believes in continuous learning and development
- Proficient in technical writing and presentation
- Possess strong analytical and critical thinking skills
- Show strong initiative and take ownership of work

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**Advertised:** 14 Mar 2024 Singapore Standard Time

**Applications close:** 31 Dec 2024 Singapore Standard Time

### Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

### Contact

Singapore