

Research Fellow/Research Engineer (Modeling and
Simulation) - WX4
Singapore Institute of Technology

Direct Link: <https://www.AcademicKeys.com/r?job=232950>

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

Job Title Research Fellow/Research Engineer (Modeling and
Simulation) - WX4

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) Mechatronics
Electrical and/or Electronics

Job Website <https://careers.singaporetech.edu.sg/cw/en/job/498623/research-fellowresearch-engineer-modeling-and-simulation-wx4>

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Job Description

Research Fellow/Research Engineer (Modeling and Simulation) - WX4

Job no: 498623

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. Carry out dynamic modelling and simulation of the energy storage, electrical power and propulsion system of electrical ships.
 - ii. Carry out testing of the simulation models, fix problems, and improve the performance.
 - iii. Take part in the web application and software system development for a Ship Simulation and Optimisation Software Platform.
 - iv. Carry out marine electrical power and energy storage system design optimisation.
- 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 dynamic modeling and simulation.
- Have a degree in Electrical Engineering/Marine Engineering/Mechatronics/Other Relevant Engineering Degree. Possessing a Master's or PhD degree will be advantageous.
- Experience in C++/Java will be advantageous.

Key Competencies

- Able to carry out dynamic modelling and simulation of ship electrical power and propulsion systems.
- Able to build and maintain strong working relationships with people within and external to the university.
- Self-directed learner who believes in continuous learning and development

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- 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