

Research Fellow/Research Engineer (Ship
management) - ML1
Singapore Institute of Technology

Direct Link: <https://www.AcademicKeys.com/r?job=234674>

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Posted Apr. 15, 2024, set to expire Aug. 15, 2024

Job Title Research Fellow/Research Engineer (Ship management) -
ML1

Department Engineering

Institution Singapore Institute of Technology
Singapore, , Singapore

Date Posted Apr. 15, 2024

Application Deadline Open until filled

Position Start Date Available immediately

Job Categories Research Scientist/Associate

Academic Field(s) Computer Science
Engineering - Other

Job Website <https://careers.singaporetech.edu.sg/cw/en/job/498641/research-fellowresearch-engineer-ship-management-ml1>

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Job Description

Research Fellow/Research Engineer (Ship management) - ML1

Job no: 498641

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 multi-objective ship decision support system to optimize ship operations for better efficiency and lower emissions and to develop ship management capabilities to provide ship operation advisories.

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 literature review on the state of the art in modelling, simulation and optimization of ship operations.
 - ii. Collection of historical data for ship operations.
 - iii. Development of a multi-objective ship decision support system.
 - iv. Carry out testing of the system using real-time data from ships.
- Carry out Risk Assessment, and ensure compliance with Work, Safety and Health Regulations.
- 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 modelling, simulation and optimization
- Have a degree in Computer Science. Possessing a Master's or PhD degree will be advantageous
- Knowledge of commercial simulators such as FlexSim will be advantageous

Key Competencies

- Able to carry out software system development in C++/Java/Python
- Able to build, analyze and optimize complex simulation models
- 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: 15 Apr 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