

Research Engineer/ Fellow (Maritime Connectivity) - NV2 Singapore Institute of Technology

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Posted May 23, 2024, set to expire Sep. 22, 2024

Job Title Research Engineer/ Fellow (Maritime Connectivity) - NV2

Department Engineering

Institution Singapore Institute of Technology
Singapore, , Singapore

Date Posted May 23, 2024

Application Deadline Open until filled

Position Start Date Available immediately

Job Categories Professional Staff

Academic Field(s) Civil Engineering

Job Website <https://careers.singaporetech.edu.sg/cw/en/job/498682/research-engineer-fellow-maritime-connectivity-nv2>

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Job Description

Research Engineer/ Fellow (Maritime Connectivity) - NV2

Job no: 498682

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 a research project in partnership with industry collaborator where you will be part of the research team to develop both 5G and satellite-based connectivity testbed, integrating the heterogenous wireless networks, for end user devices used typically in maritime applications. The project is in collaboration with an industry partner.

Key Responsibilities:

- Undertake these responsibilities in the research project:
 - i. Design and develop connectivity testbed with optimal router configurations and gateway setups for heterogenous wireless networks.
 - ii. Perform 5G network, quality of service and radio coverage measurements in specific port-based locations in the southern coastlines of Singapore along with the industry partner.
 - iii. Integrate edge devices and sensors used typically in maritime operations with the connectivity testbed enabling ship-to-shore communication.
 - iv. Perform basic radio coverage modeling and simulations leading to analysis of maritime scenarios and their impact on network planning
 - v. Interpret and carry-out investigative data-analysis with correlation of measurement results
- Coordinate very closely with research team and industry partner in the project execution and in the procurement, process including liaison with test and measurement equipment/services vendors/suppliers.
- Work independently, as well as within a team, to ensure proper operation and maintenance of equipment.
- Participate in and manage the research project with Principal Investigator (PI), Co- PIs and the research team members to ensure all project deliverables are met.

Job Requirements:

- Have relevant competence in the areas of 5G networks, router configurations and gateway setups. Specific knowledge/experience related to satellite networks and related equipment is an advantage.
- Have experience in cloud-based network configuration, deployment and management is an advantage.
- Specific knowledge in routing protocols and setting up of network interfaces is an advantage

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- Have sufficient skills in programming for data analysis of measurement data analysis to carry out correlation analysis, use of simulation tools for radio network planning
- Have a degree in electrical / electronic / computer engineering or other relevant fields.
- Previous experience in network applications using LTE/5G/WLAN/Bluetooth will be advantageous

Key Competencies

- Knowledge in Wireless networks, radio access technologies, mobile network measurements
- Programming skills for data analysis (simulation and measurement) needed for test automation as well as familiarity with radio network modeling and simulation using commercial tools.
- Strong written and verbal communication skills.
- Able to build and maintain strong working relationships with people within and external to the university.
- Possess strong analytical and critical thinking skills
- Show strong initiative and take ownership of work
- Knowledge of communication standards (e.g. 3GPP) standards will be advantageous.

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Advertised: 21 May 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