

## Research Fellow/Engineer (Robotics Systems) - 5GTL Singapore Institute of Technology

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Posted Jan. 12, 2024, set to expire Jul. 5, 2024

**Job Title** Research Fellow/Engineer (Robotics Systems) - 5GTL  
**Department** Infocomm Technology  
**Institution** Singapore Institute of Technology  
Singapore, , Singapore

**Date Posted** Jan. 12, 2024

**Application Deadline** Open until filled  
**Position Start Date** Available immediately

**Job Categories** Research Scientist/Associate

**Academic Field(s)** Robotics

**Job Website** <https://careers.singaporetech.edu.sg/cw/en/job/498595/research-fellowengineer-robotics-systems-5gtl>

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**Job Description**

## Research Fellow/Engineer (Robotics Systems) - 5GTL

**Job no:** 498595

**Department:** Infocomm Technology

**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

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to industry demands while working on research projects in SIT.

You will be working with a team of researchers in the Future Communications Translation Lab (FCTL) in driving innovation and applied research in 5G use cases and applications. 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 investigate and develop 5G technology solutions for autonomous robot integration.

We are looking for suitable candidates to develop robotics integration solutions using 5G network. You shall be required to perform research into the different techniques to enhance the autonomy of robotics systems through the application of low latency and high data rates available with 5G communications. Some of these applications include integration of robotics system beyond visual line-of-sight (BVLOS), and advanced 3D autonomy. You should have deep knowledge of robotics systems and experience in designing software and robotics hardware.

Your responsibilities shall include:

- Conduct research to determine the parameters for integrating robotics system
- Determine the key parameters needed for robotics integration in specific application.
- Design and develop prototypes and work on component robotics technologies
- Perform integration tests and quality control
- Evaluate and improve design based on tests and experiment data
- Create complete documentation
- Troubleshoot defects in the design
- Keep abreast of advancements in robotics and relevant fields
- Carry out Risk Assessment, and ensure compliance with Work, Safety and Health Regulations.

### Job Requirements

- Well-versed in ROS
- Excellent knowledge of programming languages
- Ability to develop and evaluate integrated systems
- An analytical mind
- Resourcefulness
- Outstanding communication skills
- Good bachelor's degree or post graduate degree in Robotics/Mechatronics
- Prior industry experience helpful but not necessary
- Experience with robotic arm and AMR will be an added advantage

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**Advertised:** 12 Jan 2024 Singapore Standard Time

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

**Contact Information**

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

**Contact**

Singapore