

Professional Officer (All Levels) (Robotics & Automation)
Singapore Institute of Technology

Direct Link: <https://www.AcademicKeys.com/r?job=259643>

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Posted Jul. 11, 2025, set to expire Jul. 5, 2026

Job Title Professional Officer (All Levels) (Robotics & Automation)
Department Professional Officers
Institution Singapore Institute of Technology
Singapore, , Singapore

Date Posted Jul. 11, 2025

Application Deadline Open until filled

Position Start Date Available immediately

Job Categories Professional Staff

Academic Field(s) Robotics
Mechatronics

Job Website <https://careers.singaporetech.edu.sg/cw/en/job/498953/professional-officer-all-levels-robotics-automation>

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Job Description

Professional Officer (All Levels) (Robotics & Automation)

Job no: 498953

Department: Professional Officers

Contract type: Contract

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The Professional Officers Division (POD) houses a centralized pool of academic staff under the

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Professional Officers scheme. Professional Officers come with specialised and deep technical skills acquired through extensive industry experience. They form the talent pool which brings a much-needed industry perspective to student learning. They facilitate applied learning and applied research in SIT, complementing the academic expertise of the faculty to bring industry practices and applications into the curriculum.

Professional Officers leverage on their industry experiences to create authentic learning environments, where discovery and innovation take place. They act as coaches and mentors to students during practical learning activities such as laboratory sessions, Capstone Projects and the Integrated Work Study Programme (IWSP). Professional Officers could also lead or work with faculty on industry innovation projects to provide solutions to the industry.

In addition to their role in applied learning and applied research, Professional Officers manage the centralised laboratory facilities and resources in SIT. With Technical Officers, laboratory safety professionals, and administrators in POD, they jointly develop central policies and processes for the safe and seamless operation of laboratories in SIT.

Key Responsibilities

- Design and teach labs & practice modules.
- Mentor students in Capstone Projects and the Integrated Work Study Programme (IWSP).
- Lead or co-lead innovation projects with industry.
- Manage labs and equipment to support academic programmes and applied research.
- Ensure safety in labs.

Job Requirements

- A good degree in Electronics, Mechatronics, Software Engineering, or a related field. Masters, PhD and/or relevant professional certifications would be advantageous.
- Deep technical specialist with 10 or more years of working experience in Automation, Robotics, Autonomous Systems, or related areas in development would be preferred.
- Experience in following areas is highly desirable:
 - Hands-on experience in electronics/electrical.
 - Programming of Microcontrollers and embedded systems.
 - Working knowledge of programming languages such ROS/ROS2, Python, C/C++ Programming,

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- Knowledge of subjects such as computer vision, Machine Learning, Artificial Intelligence and Kinematics and dynamics.
- Autonomous systems, Robotics and Automation.
- Industry 4.0 and Internet-of-Things.
- Advantageous to have prior knowledge in:
 - Hands-on experience implementation of industrial robotics systems and performing offline simulation of robotic work cells.
 - Digitalisation skills - IoT, data analytics, artificial intelligence, machine learning, mixed reality, etc would be advantageous.
 - Programming and simulation software such as MATLAB, Gazebo and Tensor flow.
 - Knowledge of Linux OS.
- Extensive hands-on experience and knowledge of industry practices and engineering principles to bring industry perspective to SIT.
- Keen interest in innovation projects, with demonstrated ability in developing solutions to technical problems.
- Strong supervisory skills and enjoy working closely with students in an educational environment.
- Demonstrate proficiency to keep abreast of development in the field and pursue professional certification programs. Possess industrial certifications in relevant areas will be an added advantage.

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Advertised: 25 Jun 2025 Singapore Standard Time

Applications close: 24 Dec 2025 Singapore Standard Time

Contact Information

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

Contact

Singapore

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