

Research Fellow (Robotics Vision and SLAM)  
Nanyang Technological University

Direct Link: <https://www.AcademicKeys.com/r?job=246074>

Downloaded On: Apr. 3, 2025 6:02am

Posted Sep. 30, 2024, set to expire May 6, 2025

<b>Job Title</b>	Research Fellow (Robotics Vision and SLAM)
<b>Department</b>	School of Mechanical & Aerospace Engineering (MAE)
<b>Institution</b>	Nanyang Technological University Singapore, , Singapore
<b>Date Posted</b>	Sep. 30, 2024
<b>Application Deadline</b>	Open until filled
<b>Position Start Date</b>	Available Immediately
<b>Job Categories</b>	Professional Staff
<b>Academic Field(s)</b>	Research/Technical/Laboratory
<b>Job Website</b>	<a href="https://ntu.wd3.myworkdayjobs.com/en-US/Careers/details/Research-Fellow--Robotics-Vision-and-SLAM-_R00018566">https://ntu.wd3.myworkdayjobs.com/en-US/Careers/details/Research-Fellow--Robotics-Vision-and-SLAM-_R00018566</a>
<b>Apply Online Here</b>	<a href="https://ntu.wd3.myworkdayjobs.com/en-US/Careers/details/Research-Fellow--Robotics-Vision-and-SLAM-_R00018566">https://ntu.wd3.myworkdayjobs.com/en-US/Careers/details/Research-Fellow--Robotics-Vision-and-SLAM-_R00018566</a>
<b>Apply By Email</b>	
<b>Job Description</b>	

We welcomes applications for a Research Fellow position in Robotics Vision and SLAM at the School of Mechanical and Aerospace Engineering at Nanyang Technological University, Singapore. This is a full-time appointment funded for 1 year (possibility of a one-year extension).

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### Key Responsibilities:

- Conduct research, development, and experimentation of autonomous SLAM and perception algorithms for UAVs in complex and GNSS-denied environments.
- Develop multi-modal SLAM software incorporating LiDAR and RGBD cameras to enhance state estimation, sensor fusion, and localization accuracy under challenging conditions.
- Validate perception and localization algorithms in both virtual and real-world environments.
- Collaborate with team members to integrate SLAM and vision systems into UAV platforms.

### Job Requirements:

- Ph.D. in Robotics, Computer Science, Electrical Engineering, or related fields, focusing on Computer Vision, SLAM, or Robotic Perception.
- Strong expertise in SLAM, VIO, multi-sensor fusion, and perception algorithms in GNSS-denied environments.
- Proficiency in Python, C++, and MATLAB, with advanced skills in ROS/ROS2 and Linux.
- Hands-on experience with perception algorithms using TOF, LiDAR, RGBD cameras, and IMU sensors.
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Experienced in deploying perception and SLAM algorithms on UAVs and ground robots.

- Experience with computer vision algorithms for object detection and tracking.
- Familiar with UAV kinematics and dynamics

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We regret that only shortlisted candidates will be notified.

**Contact Information**

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

**Contact**

Singapore