Research Fellow (Orbital Dynamics & Satellite Sensor Calibration)
Nanyang Technological University

Job Title	Research Fellow (Orbital Dynamics & Satellite Sensor Calibration)
Department	School of Electrical and Electronic Engineering
Institution	Nanyang Technological University Singapore, , Singapore
Date Posted	Sep. 18, 2025
Application Deadline	Open untill filled
Position Start Date	Available Immediately
Job Categories	Research Scientist/Associate
Academic Field(s)	Electrical and/or Electronics
Job Website	https://ntu.wd3.myworkdayjobs.com/Careers/job/NTU-Main-Campus-Singapore/Research-Fellow--Orbital-Dynamics---Satellite-Sensor-Calibration-_R00021961-1
Apply Online Here	https://ntu.wd3.myworkdayjobs.com/Careers/job/NTU-Main-Campus-Singapore/Research-Fellow--Orbital-Dynamics---Satellite-Sensor-Calibration-_R00021961-1
Apply By Email	

Job Description

School of Electrical and Electronic Engineering is one of the founding Schools of the Nanyang Technological University. Built on a culture of excellence, the School is renowned for its high academic standards and research. With over 3,000 undergraduates students and 2,000 graduate students it is

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one of the largest EEE schools in the world and ranks 4th in the field of Electrical & Electronic Engineering in the 2025 QS World University Rankings by Subjects.

Today, the School has become one of the world's largest engineering schools that nurtures competent engineers and researchers. Each year, the School graduates over a thousand students who are ready to take on great ambitions and challenges.

For more details, please view: https://www.ntu.edu.sg/eee

We are looking for a Research Fellow to lead a cutting-edge study at the intersection of spacecraft dynamics, satellite sensor calibration, and AI-enabled space systems. The successful candidate will spearhead a research initiative focused on enhancing the scientific return of low-cost CubeSat missions through intelligent calibration of space sensors. This role offers the opportunity to work independently within a vibrant research ecosystem, contributing to Singapore's strategic priorities in space science and remote sensing.

Key Responsibilities:

- Lead and execute the research project with minimal oversight, from hypothesis formulation to publication.
- Design and simulate orbital scenarios for sensor calibration and data fusion.
- Model complex orbital dynamics for accurate sensor calibration.
- Develop AI models for onboard and ground-based satellite data processing.
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Collaborate with NTU faculty, external partners, and government agencies.

- Publish findings in high-impact, peer-reviewed journals and present at international conferences.

Job Requirements:

- PhD in Aerospace Engineering, Electrical Engineering, Remote Sensing, Orbital dynamics, or a related field.
- Proven track record of first-author publications in high-impact journals.
- Demonstrated ability to lead independent research and manage complex scientific studies, in space science or engineering
- Strong expertise in one or more of the following:
    - Spacecraft dynamics and orbital mechanics
    - Inter-calibration of satellite sensors and satellite data
    - AI/ML applications in remote sensing or space systems
- Experience with CubeSat or MicroSat mission design is highly desirable.
- Excellent communication and scientific writing skills.

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We regret to inform 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