

Research Fellow (Signal Processing and Machine Learning)

Nanyang Technological University

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Posted Oct. 13, 2025, set to expire May 6, 2026

Job Title	Research Fellow (Signal Processing and Machine Learning)
Department	School of Electrical and Electronic Engineering
Institution	Nanyang Technological University Singapore, , Singapore
Date Posted	Oct. 13, 2025
Application Deadline	Open untill filled
Position Start Date	Available Immediately
Job Categories	Research Scientist/Associate
Academic Field(s)	Computer Science Electrical and/or Electronics
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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 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.

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We are hiring a Research Fellow in Signal Processing and Machine Learning to develop signal processing and machine learning algorithms and methods for accurate localization and tracking of 5G network User Equipment (UE) in urban environments.

Group website: <https://personal.ntu.edu.sg/wptay/>

Key Responsibilities:

- Study 5G protocol and implementation to uncover protocol/waveform features, impairments due to implementations and urban environment that could facilitate/impair UE localization.
- Develop the signal model for localization of UEs in the urban environment incorporating signal propagation.
- Develop signal processing and machine learning algorithms and methods for wireless localization and tracking of UEs in 5G networks.
- Perform software/hardware implementation and empirical studies.
- Prepare report and conduct presentation at seminars.
- Assist PI in proposal writing and help supervise graduate students.

Job Requirements:

- Ph.D. in Electrical Engineering, Computer Science, Statistics, or other related fields.
- Familiarity with machine learning and signal processing algorithms for wireless communications.
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Good written and oral communication skills.

- Interpersonal skill (e.g. Ability to work independently / develop solutions under strict timelines, meticulous and eye for details / excellent organizational / time management skills)

Please send your CV to Tay, Wee Peng (wptay@ntu.edu.sg).

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