Research Associate (AI-Powered Ground Penetrating Radar)
Nanyang Technological University

Job Title	Research Associate (AI-Powered Ground Penetrating Radar)
Department	School of Electrical and Electronic Engineering https://www.ntu.edu.sg/eee
Institution	Nanyang Technological University Singapore, , Singapore
Date Posted	Feb. 4, 2025
Application Deadline	Open untill filled
Position Start Date	Available Immediately
Job Categories	Research Scientist/Associate
Academic Field(s)	Electrical and/or Electronics
Apply Online Here	https://ntu.wd3.myworkdayjobs.com/Careers/job/NTU-Main-Campus-Singapore/Research-Associate--AI-Powered-Ground-Penetrating-Radar-_R00019701
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 1,000 graduate students it is one of the largest EEE schools in the world and ranks 10th in the field of Electrical & Electronic Engineering in the 2024 QS World University Rankings by Subjects.

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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 Associate who will help developing AI-powered ground penetrating radar (GPR) for accurate imaging of tree roots buried in confined areas.

Key Responsibilities:

The Research Associate will work on a project to research on the development of an AI-powered ultra-wideband (UWB) GPR technology. The roles of this position include:

- Development of AI and signal processing techniques for accurate tree root detection and imaging

- Enhancement of the existing UWB-GPR technology

- Performing measurements on the field

- Fusing the existing technology with other sensing technologies

Job Requirements:

- MSc in Electrical and Electronic Engineering or related field

- Solid background in electromagnetics (must) and radar sensing and signal processing (preferred)

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Experience in the development of AI algorithms (preferred)

- A publication record (preferred)

- High academic credentials from a reputable institution

- Proficiency in Matlab and Phyton

- Good written and oral communication skills

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