

Project Officer (Generative AI for Metamaterials)
Nanyang Technological University

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Posted Nov. 11, 2024, set to expire May 6, 2025

Job Title	Project Officer (Generative AI for Metamaterials)
Department	School of Electrical and Electronic Engineering
Institution	Nanyang Technological University Singapore, , Singapore
Date Posted	Nov. 11, 2024
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/Project-Officer--Generative-AI-for-Metamaterials-_R00019011
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.

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.

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

We are looking for a Project Officer (PO) who will develop generative artificial intelligence (AI) and surrogate modelling techniques for synthesizing artificial metasurfaces.

Key Responsibilities:

- Developing generative AI-based frameworks for fast synthesis of unit cells of metasurfaces
- Developing machine/deep learning or polynomial-based surrogate modelling techniques for fast characterization of unit cells
- Implementing local/global optimizers leveraging surrogate models for fast synthesis
- Validating the performances of the synthesized configurations with those of the fabricated metasurfaces

Job Requirements:

- BSc in Electrical and Electronic Engineering, Applied Mathematics, or a related field
- High academic credentials from a reputable institution
- Experience in code development for generative AI and/or surrogate modelling
- A publication record (preferred)
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Coding experience in Python and Matlab as well as C/C++ or Fortran

- 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