

**Research Fellow (Computational Electromagnetics)
Nanyang Technological University**

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

Job Title	Research Fellow (Computational Electromagnetics)
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
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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 Research Fellow (RF) who will develop computational electromagnetics codes for rapid characterization of the fields scattered from artificial metasurfaces.

Key Responsibilities:

The key responsibilities of the Research Fellow are

- Developing 3D integral equation / boundary element method-based codes.
- Accelerating these codes with matrix/tensor decomposition-based and fast Fourier transform-based schemes.
- Adopting these codes for multiple-CPU and/or GPU platforms via parallelization schemes.
- Validating these codes via canonical and real-world examples.

Job Requirements:

- PhD in Electrical and Electronic Engineering, Applied Mathematics, or related field.
- 3 years of research experience in the related area.
- Experience in code development for integral equation/boundary element methods.
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Good publication record.

- Proficiency in 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