

Research Associate (Computational Electromagnetism and Nanophotonics) Nanyang Technological University

Direct Link: https://www.AcademicKeys.com/r?job=256701

Downloaded On: Nov. 23, 2025 4:55pm Posted May 7, 2025, set to expire May 6, 2026

Job Title Research Associate (Computational

Electromagnetism and Nanophotonics)

Department School of Electrical and Electronic Engineering

Institution Nanyang Technological University

Singapore, , Singapore

Date Posted May 7, 2025

Application Deadline Open untill filled

Position Start Date Available Immediately

Job Categories Research Scientist/Associate

Academic Field(s) Electrical and/or Electronics

Engineering - Other

Job Website https://ntu.wd3.myworkdayjobs.com/Careers/job/NTU-

Main-Campus-Singapore/Research-Associate--

Computational-Electromagnetism-and-Nanophotonics-

_R00020645

Apply Online Here https://ntu.wd3.myworkdayjobs.com/Careers/job/NTU-

Main-Campus-Singapore/Research-Associate--

Computational-Electromagnetism-and-Nanophotonics-

R00020645

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



Research Associate (Computational Electromagnetism and Nanophotonics) Nanyang Technological University

Direct Link: https://www.AcademicKeys.com/r?job=256701
Downloaded On: Nov. 23, 2025 4:55pm
Posted May 7, 2025, set to expire May 6, 2026

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.

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.

Key Responsibilities:

- Assist in computationally solving electrodynamics problems involving electron-photon and electron-matter interactions in the extreme ultraviolet (EUV) regime
- Assist in developing new, efficient software for modeling unprecedented electromagnetic phenomena, using languages such as C++ and Python
- Collaborate with senior researchers to formulate new theories pertaining to EUV generation, obtained ab initio from Maxwell's equations and quantum electrodynamics/quantum field theory
- Lead papers and publish in high-impact journals
- Present at top-tier international conferences
- Assist PI in writing grants and provide logistical support pertaining to laboratory operation for the project.

Job Requirements:

Master's degree in physics, mathematics, engineering or related field

•



Research Associate (Computational Electromagnetism and Nanophotonics) Nanyang Technological University

Direct Link: https://www.AcademicKeys.com/r?job=256701
Downloaded On: Nov. 23, 2025 4:55pm
Posted May 7, 2025, set to expire May 6, 2026

Strong background in electrodynamics simulations techniques

- Strong background in C++, Python or similar languages
- Strong background in theoretical physics and mathematical physics
- Good written and oral communication skills
- Competent in teamwork and presenting results in informative visuals
- Interpersonal skill: Ability to work under pressure, Ability to work independently, develop solutions under strict timelines, meticulous and eye for details, excellent organizational / time management skills
- Entry level candidates are welcome to apply

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