

Research Fellow (Heterogeneous Integration to Si
Photonics)
Nanyang Technological University

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Posted Mar. 28, 2024, set to expire Jul. 28, 2024

Job Title	Research Fellow (Heterogeneous Integration to Si Photonics)
Department	School of Electrical and Electronic Engineering
Institution	Nanyang Technological University Singapore, , Singapore
Date Posted	Mar. 28, 2024
Application Deadline	Open until filled
Position Start Date	Available Immediately
Job Categories	Professional Staff
Academic Field(s)	Engineering Physics Electrical and/or Electronics Material/Metallurgy
Job Website	https://ntu.wd3.myworkdayjobs.com/en-US/Careers/job/Research-Fellow--Heterogeneous-Integration-to-Si-Photonics-_R00016644
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Job Description	

A Research Fellow position is available in the School of Electrical & Electronic Engineering at NTU. We are seeking a highly talented candidate who are highly motivated with a project to conduct the research on understanding novel quantum emitter phenomena in atomically thin two-dimensional (2D) materials

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systems, exploring their application as a new class of photonic integrated devices. The Research Fellow will work on a project to conduct the experimental research on development of single photon emitting devices using 2D materials and vdW heterostructures. The roles of this position include:

Key Responsibilities:

- Integration and characterization of optical functional materials including vdW materials, perovskites, complexed oxide, and phase change materials.
- Development of wafer-scale integration.
- Development new class of photonic devices using heterogeneous integration.
- Installation of photonic device characterization setup and oversee the progress of the project.

Job Requirements:

- PhD in relevant area (electrical engineering, materials science, and physics).
- Research background in solid state physics, applied physics, semiconductor materials, nanomaterials is preferred.
- Research experience in fabrication and characterization of photonic devices.
- Prior cleanroom fabrication and device experience.
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Independent and can work well with a team.

We regret 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