

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

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

<b>Job Title</b>	Research Fellow (Heterogeneous Integration to Si Photonics)
<b>Department</b>	School of Electrical and Electronic Engineering
<b>Institution</b>	Nanyang Technological University Singapore, , Singapore
<b>Date Posted</b>	Mar. 28, 2024
<b>Application Deadline</b>	Open until filled
<b>Position Start Date</b>	Available Immediately
<b>Job Categories</b>	Professional Staff
<b>Academic Field(s)</b>	Computer/Information Sciences
<b>Job Website</b>	<a href="https://ntu.wd3.myworkdayjobs.com/en-US/Careers/job/Research-Fellow--Heterogeneous-Integration-to-Si-Photonics-_R00016644">https://ntu.wd3.myworkdayjobs.com/en-US/Careers/job/Research-Fellow--Heterogeneous-Integration-to-Si-Photonics-_R00016644</a>
<b>Apply Online Here</b>	<a href="https://ntu.wd3.myworkdayjobs.com/en-US/Careers/job/Research-Fellow--Heterogeneous-Integration-to-Si-Photonics-_R00016644">https://ntu.wd3.myworkdayjobs.com/en-US/Careers/job/Research-Fellow--Heterogeneous-Integration-to-Si-Photonics-_R00016644</a>
<b>Apply By Email</b>	
<b>Job Description</b>	

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 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

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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.
- Independent and can work well with a team.

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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