

Research Fellow (Heterogeneous Integrated Photonics  
and Semiconductor Fabrication)  
Nanyang Technological University

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Posted May 24, 2024, set to expire Apr. 1, 2025

<b>Job Title</b>	Research Fellow (Heterogeneous Integrated Photonics and Semiconductor Fabrication)
<b>Department</b>	School of Electrical and Electronic Engineering
<b>Institution</b>	Nanyang Technological University Singapore, , Singapore
<b>Date Posted</b>	May 24, 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>	Optics & Optical Engineering Electrical and/or Electronics
<b>Job Website</b>	<a href="https://ntu.wd3.myworkdayjobs.com/en-US/Careers/job/Research-Fellow--Heterogeneous-Integrated-Photonics-and-Semiconductor-Fabrication-_R00017291-1">https://ntu.wd3.myworkdayjobs.com/en-US/Careers/job/Research-Fellow--Heterogeneous-Integrated-Photonics-and-Semiconductor-Fabrication-_R00017291-1</a>
<b>Apply Online Here</b>	<a href="https://ntu.wd3.myworkdayjobs.com/en-US/Careers/job/Research-Fellow--Heterogeneous-Integrated-Photonics-and-Semiconductor-Fabrication-_R00017291-1">https://ntu.wd3.myworkdayjobs.com/en-US/Careers/job/Research-Fellow--Heterogeneous-Integrated-Photonics-and-Semiconductor-Fabrication-_R00017291-1</a>
<b>Apply By Email</b>	
<b>Job Description</b>	

The School of Electrical and Electronic Engineering (EEE) is looking for a Research Fellow to work on the project titled "Van der Waals Engineering for All-Optical Neuromorphic Chip". The position requires

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system and device level photonic integrated circuit design, semiconductor fabrication, and advanced packaging. Specifically, the candidate will heterogeneously integrated phase change, magneto-optical, Pockels, and 2D materials.

**Key Responsibilities:**

- Development of processes for heterogeneous photonic integration (i.e., direct bonding)
- System-level photonic design
- Static and dynamic photonic characterization
- Publish in academic journals, patents, and present at conferences
- Work in a team, and collaborate with other research groups

**Job Requirements:**

- PhD in Integrated Optics / Optics
- Experience in Semiconductor fabrication
- Experience in Photonic device, and system design
- Able to publish in academic journals, and present in conferences
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Able to work well in a team, and collaborate with other research groups

- Experience in the production of photonic layouts using gdsfactory
- Knowledgeable in MATLAB and Python
- Knowledgeable in Ansys Lumerical FDTD, MODE, INTERCONNECT, CML COMPILER, MULTIPHYSICS
- Prior experience in the above will be preferred.

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