

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

Direct Link: <https://www.AcademicKeys.com/r?job=236537>

Downloaded On: Jul. 3, 2024 1:35am

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<br>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<br>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

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

Direct Link: <https://www.AcademicKeys.com/r?job=236537>

Downloaded On: Jul. 3, 2024 1:35am

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

system and device level photonic integrated circuit design, semiconductor fabrication, and advanced packaging. Specifically, the candidate will heterogeneously integrated phase change, magnetooptical, 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
-

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

Direct Link: <https://www.AcademicKeys.com/r?job=236537>

Downloaded On: Jul. 3, 2024 1:35am

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

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