

Research Fellow (Experimental Topological Polaritons)
Nanyang Technological University

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Posted Mar. 1, 2024, set to expire Jun. 30, 2024

Job Title	Research Fellow (Experimental Topological Polaritons)
Department	School of Physical and Mathematical Sciences
Institution	Nanyang Technological University Singapore, , Singapore
Date Posted	Mar. 1, 2024
Application Deadline	Open until filled
Position Start Date	Available Immediately
Job Categories	Research Scientist/Associate
Academic Field(s)	Physics - Atomic/Molecular/Optical/Plasma Physics - General Sciences - General
Job Website	https://ntu.wd3.myworkdayjobs.com/en-US/Careers/job/Research-Fellow--Experimental-Topological-Polaritons-_R00016366

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Job Description

A Research Fellow position is currently available in the School of Physical and Mathematical Sciences (SPMS).

Key Responsibilities:

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Handle fabrication of topological exciton polariton lattices based on novel semiconductors

- Use electron beam lithographic techniques to etch novel lattice patterns
- Perform optical characterizations of structures using various optical spectroscopy
- Collaborate with theoretical researchers in the design and optimization for new fundamental effects and the creation of polaritonic topological lattices
- Perform nonlinear optical measurements, using interferometric, angle-resolved, and correlation type techniques
- Record, manage, and store collected data in line with NTUs data management policies
- Disseminate results in the form of peer-reviewed publications and presentations at international conferences

Job Requirements:

- PhD in Physics, Optics, Material sciences, Engineering from a reputable University
- Track record of peer-reviewed papers in international journals
- Experience in the heterostructure and device fabrications
- Experience in optical spectroscopy

We regret to inform that only shortlisted candidates will be notified.

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Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

School of Physical and Mathematical Sciences
Nanyang Technological University
Singapore