

**Project Officer (Computational quantum magnetism)
Nanyang Technological University**

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Downloaded On: Jun. 30, 2024 7:44am

Posted Jun. 24, 2024, set to expire May 6, 2025

Job Title	Project Officer (Computational quantum magnetism)
Department	School of Physical and Mathematical Sciences
Institution	Nanyang Technological University Singapore, , Singapore
Date Posted	Jun. 24, 2024
Application Deadline	Open until filled
Position Start Date	Available Immediately
Job Categories	Professional Staff
Academic Field(s)	Physics - General Sciences - General
Job Website	https://ntu.wd3.myworkdayjobs.com/en-US/Careers/details/Project-Officer--Computational-quantum-magnetism-_R00017594
Apply By Email	
Job Description	

Join Our Team at the School of Physical and Mathematical Sciences, Nanyang Technological University, Singapore

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The School of Physical and Mathematical Sciences (SPMS) at NTU Singapore hosts research and education activities in two divisions: Division of Mathematical Sciences (MAS) and Division of Physics and Applied Physics (PAP). MAS covers diverse topics ranging from pure mathematics to the applications of mathematics in cryptography, computing, business, and finance. PAP covers many areas of fundamental and applied physics, including quantum information, condensed matter physics, biophysics, and photonics. Over the years, SPMS has attracted talented individuals from around the world and Singapore to join as scientific leaders and researchers.

We are seeking a Project Officer to join the laboratory of Pinaki Sengupta at SPMS. The incumbent will contribute to a project focused on Computational studies of quantum magnets.

Key Responsibilities:

- Construct realistic microscopic models of low-dimensional quantum magnets
- Develop numerical algorithms to simulate the microscopic models
- Use large scale simulations to investigate the properties of the microscopic models developed

Job Requirements:

- Bachelor degree in related fields
- Experience in quantum many body physics
- Expertise in advanced numerical methods such as Density Matrix renormalization Group (DMRG), Quantum Monte Carlo (QMC)
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Strong written and verbal communication skills in English is essential to conduct research

- Experience in using large scale supercomputing facilities.

The College of Science seeks a diverse and inclusive workforce and is committed to equality of opportunity. We welcome applications from all and recruit on the basis of merit, regardless of age, race, gender, religion, marital status and family responsibilities, or disability.

We regret to inform 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

School of Physical and Mathematical Sciences
Nanyang Technological University
Singapore