

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

Direct Link: <https://www.AcademicKeys.com/r?job=238079>

Downloaded On: Mar. 31, 2025 4:51am

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

|                             |   |
|-----------------------------|---|
| <b>Job Title</b>            | Project Officer (Computational quantum magnetism)   |
| <b>Department</b>           | School of Physical and Mathematical Sciences  |
| <b>Institution</b>          | Nanyang Technological University<br>Singapore, , Singapore  |
| <b>Date Posted</b>          | Jun. 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>    | Physics - General<br>Sciences - General   |
| <b>Job Website</b>          | <a href="https://ntu.wd3.myworkdayjobs.com/en-US/Careers/details/Project-Officer--Computational-quantum-magnetism-_R00017594">https://ntu.wd3.myworkdayjobs.com/en-US/Careers/details/Project-Officer--Computational-quantum-magnetism-_R00017594</a> |
| <b>Apply By Email</b>       |   |
| <b>Job Description</b>      |   |

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

Project Officer (Computational quantum magnetism)  
Nanyang Technological University

Direct Link: <https://www.AcademicKeys.com/r?job=238079>

Downloaded On: Mar. 31, 2025 4:51am

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

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)
-

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

Direct Link: <https://www.AcademicKeys.com/r?job=238079>

Downloaded On: Mar. 31, 2025 4:51am

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

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