

**Research Fellow (Thermal Magneto-transport
Measurements in Low Dimensional Magnets)
Nanyang Technological University**

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Posted Sep. 27, 2024, set to expire May 6, 2025

Job Title	Research Fellow (Thermal Magneto-transport Measurements in Low Dimensional Magnets)
Department	School of Physical and Mathematical Sciences
Institution	Nanyang Technological University Singapore, , Singapore
Date Posted	Sep. 27, 2024
Application Deadline	Open until filled
Position Start Date	Available Immediately
Job Categories	Professional Staff
Academic Field(s)	Physics - Condensed Matter/Low Temperature Physics - General Sciences - General
Job Website	https://ntu.wd3.myworkdayjobs.com/en-US/Careers/details/Research-Fellow--Thermal-Magneto-transport-Measurements-in-Low-Dimensional-Magnets-_R00018523-1
Apply By Email	
Job Description	

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

Our research concerns the study and control of the electronic states in functional materials. We investigate problems such as chiral magnetism, unconventional superconductivity, new collective

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behavior in the vicinity of quantum phase transitions and electron motion through materials at their quantum limits. Experimental techniques developed in-house for our research include miniature magnetometers, scanning probes, thermal and electrical measurement apparatuses to the milli-Kelvin regime and high fields.

The School of Physical and Mathematical Sciences is seeking a highly motivated post-doctoral Research Fellow to lead experimental efforts in low-temperature thermal magneto-transport of low dimensional magnets. Qualities we are seeking for are creativity and high impact accomplishments in low temperature experimental condensed matter physics. Facilities for measurements have been developed to support the experimental work of the Research Fellow. The Research Fellow will be employed and stationed at the Nanyang Technological University, Singapore. For more information about the laboratory please visit: www.phynelab.org

Key Responsibilities:

- Involve in low-temperature thermal magneto-transport measurements to explore the nascent field of topological magnonics in low dimensional magnetic materials

Job Requirements:

- Ph.D. degree in experimental condensed matter physics
- Track record in thermal transport measurements at low temperatures and cryogenics handling
- Experience with running and maintaining superconducting magnets
- Demonstrated track record of research achievements in magnetism
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Demonstrated ability to publish high-tier research publications

- Excellent verbal and written communication skills (including scientific writing)
- Ability to work independently but also as part of a team

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