Research Fellow (Ion storage in Nanopores)
Nanyang Technological University

Job Title	Research Fellow (Ion storage in Nanopores)
Department	School of Physical and Mathematical Sciences
Institution	Nanyang Technological University
	Singapore, , Singapore
Date Posted	Oct. 11, 2024
Application Deadline	Open until filled
Position Start Date	Available Immediately
Job Categories	Research Scientist/Associate
	Professional Staff
Academic Field(s)	Materials Sciences/Polymer Sciences
	Sciences - General
	Physics - General
Job Website	https://ntu.wd3.myworkdayjobs.com/en-US/Careers/details/Research-Fellow--Ion-storage-in-Nanopores-_R00018687
Apply By Email	

Job Description

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

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.

The laboratory of Fan Hongjin at the School of Physical and Mathematical Sciences is seeking a Research Fellow to contribute to a project focused on nanoporous carbon materials for ion storage

Key Responsibilities:

- Develop synthesis method for textured nanopores

- Investigation of mechanism by in-situ and/or operando techniques and theoretical calculations

- Coordinate the collaboration with other researchers in this project to maintain steady progress, and provide support to the research group on related experiments

- Provide support to the project management and lab infrastructure, including procurement, setting up battery fabrication line, set up equipment for in-situ and/or operando characterizations, annual and final project reports

- Make regular progress reports to PI

- Write one proposal based on results obtained from this project for external grant

Job Requirements:

- PhD degree in material sciences or applied physics or related areas, with focus on renewable energy

- Experience in design, synthesis of carbon based nanomaterials for energy storage

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Strong written and verbal communication skills in English is essential to conduct research

- Strong publication record on the topic of renewable energy materials

- Entry level candidates are welcome to apply

- Strong motivation to undertake grand challenges in multidisciplinary subjects

- Excellent team player who is capable and willing to provide supports in a dynamic and interdisciplinary environment

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