

Research Fellow (Plasma physics for Fusion Energy)
Nanyang Technological University

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Posted May 5, 2025, set to expire Sep. 3, 2025

Job Title	Research Fellow (Plasma physics for Fusion Energy)
Department	School of Physical and Mathematical Sciences,
Institution	Nanyang Technological University Singapore, , Singapore
Date Posted	May 5, 2025
Application Deadline	Open until filled
Position Start Date	Available Immediately
Job Categories	Professional Staff
Academic Field(s)	Physics - Atomic/Molecular/Optical/Plasma Physics - General Computer/Information Sciences Sciences - General
Job Website	https://ntu.wd3.myworkdayjobs.com/en-US/Careers/details/Research-Fellow--Plasma-physics-for-Fusion-Energy-_R00020617-1

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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

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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.

Position Available: Research Fellow, Plasma physics for Fusion Energy

The project aims to assess impurity transport under different plasma turbulence regimes, as well as the effects of plasma shaping. The Research Fellow will be employed and based at NTU, and is expected to travel overseas to collaborate with scientific teams at CEA, France.

Key Responsibilities:

- Investigate impurity transport under different plasma turbulence regimes and evaluate their impact on global plasma confinement
- Assess the effect of geometry on plasma confinement and behavior of turbulence
- Build-up a comprehensive database based on these simulations and analyze data

Job Requirements:

- PhD degree in physics
- Demonstrated experience in computer sciences
- Demonstrated experience in handling large size database
- Knowledgeable in theoretical physics, and at minima basic knowledge in theoretical plasma

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physics

- Demonstrated track-record of scientific productivity
- Experience of scientific work in an international 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