

Research Fellow (Plasma physics and simulation for  
fusion energy)  
Nanyang Technological University

Direct Link: <https://www.AcademicKeys.com/r?job=231378>

Downloaded On: May. 9, 2024 6:19am

Posted Feb. 26, 2024, set to expire Jun. 27, 2024

<b>Job Title</b>	Research Fellow (Plasma physics and simulation for fusion energy)
<b>Department</b>	School of Physical and Mathematical Sciences
<b>Institution</b>	Nanyang Technological University Singapore, , Singapore
<b>Date Posted</b>	Feb. 26, 2024
<b>Application Deadline</b>	Open until filled
<b>Position Start Date</b>	Available Immediately
<b>Job Categories</b>	Post-Doc Professional Staff Research Scientist/Associate
<b>Academic Field(s)</b>	Physics - Atomic/Molecular/Optical/Plasma Sciences - General
<b>Job Website</b>	<a href="https://ntu.wd3.myworkdayjobs.com/en-US/Careers/job/Research-Fellow--Plasma-physics-and-simulation-for-fusion-energy-_R00016309-1">https://ntu.wd3.myworkdayjobs.com/en-US/Careers/job/Research-Fellow--Plasma-physics-and-simulation-for-fusion-energy-_R00016309-1</a>
<b>Apply By Email</b>	
<b>Job Description</b>	

A Research Fellow position is currently available in the School of Physical and Mathematical Sciences (SPMS).

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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.

The NTU theoretical and computational plasma physics group is seeking to hire a research fellow to work on the simulation of energetic-particle-driven instabilities in fusion plasmas.

**Key Responsibilities:**

- Understand the role of energetic particles and resonant magnetic perturbations in plasma instabilities
- Perform numerical simulations of energetic-particle-driven instabilities using a plasma simulation code
- Benchmark the result with standard cases and literature
- Analyze the data and draw a relationship. Conduct a parameter scan to quantify the relationship.
- Derive a reduced model for physical understanding or compare to experimental data

**Job Requirements:**

- Ph.D. in plasma physics, computational mathematics, or other related fields
- Research experience in plasma physics and/or numerical simulation
- Strong track record in terms of publications
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Experience in high-performance computing is favourable

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