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Research Fellow (Emission Control of Ammonia Combustion)
Nanyang Technological University

Direct Link: https://www.AcademicKeys.com/r?job=267970
Downloaded On: Nov. 6, 2025 4:58pm
Posted Nov. 6, 2025, set to expire May 6, 2026

Job Title	Research Fellow (Emission Control of Ammonia Combustion)
Department	Energy Research Institute @ NTU
Institution	Nanyang Technological University Singapore, , Singapore
Date Posted	Nov. 6, 2025
Application Deadline	Open untill filled
Position Start Date	Available Immediately
Job Categories	Research Scientist/Associate
Academic Field(s)	Mechanical Engineering
Job Website	https://ntu.wd3.myworkdayjobs.com/Careers/job/NTU-Main-Campus-Singapore/Research-Fellow--Emission-Control-of-Ammonia-Combustion-_R00022487
Apply Online Here	https://ntu.wd3.myworkdayjobs.com/Careers/job/NTU-Main-Campus-Singapore/Research-Fellow--Emission-Control-of-Ammonia-Combustion-_R00022487
Apply By Email	

Job Description

Established in 2010, the Energy Research Institute @ NTU (ERI@N) is a pan-university research institute that focuses on systems-level research for tropical megacities. It performs translational research that covers the energy value chain from generation to innovative end-use solutions, motivated by industrialisation and deployment. ERI@N has multiple Interdisciplinary Research Programmes which focus on translational Research, Development & Deployment which focus on specific area of the

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energy value chain, and a number of Living labs and Testbeds which facilitate large scale technology deployment enabling validation and demonstration of real-world applications.

For more details, please view https://www.ntu.edu.sg/erian

The Energy Research Institute @ NTU (ERI@N) is seeking to hire research fellow to support the works on Emission Control of Ammonia Combustion. The job scope of the manpower is to conduct combustion experiments in constant volume combustion chamber; establish experimental databases for ammonia, hydrogen, and hydrocarbon fuels; perform emission formation pathways analyses by simulation software; explore the application of low-emission ammonia combustion methods.

Key Responsibilities:

Responsible for supporting experimental research on ammonia-fuelled reciprocating engines with the responsibilities including:

- Monitor and operate the engine fuels including diesel, biodiesel, LNG, hydrogen, ammonia, etc.
- Design the reciprocating engine experimental platform and perform engine testing
- Measure engine emission and conducted the species analysis
- Model the engine performance and emission
- Support the operation of the ongoing projects
- Collaborate the work between NTU and industrial partners

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Job Requirements:

- PhD degree in Mechanical or Aerospace Engineering or the related fields
- 3-year research experience in mechanical system
- Expertise in engineering design and experimental skill
- Experience in numerical simulation for fluid or combustion performance
- Publication track record is as one reference
- Proficiency in basics of engineering design, mechanical analysis and thermofluid software
- Proficiency in English and good communication capabilities - essential for data analysis and communication with stakeholders

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

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