

Senior Research Engineer I (Engineering/Material
Science/Physics/Chemistry)
Nanyang Technological University

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Posted Apr. 23, 2025, set to expire Aug. 22, 2025

Job Title	Senior Research Engineer I (Engineering/Material Science/Physics/Chemistry)
Department	Energy Research Institute @ NTU
Institution	Nanyang Technological University Singapore, , Singapore
Date Posted	Apr. 23, 2025
Application Deadline	Open untill filled
Position Start Date	Available Immediately
Job Categories	Research Scientist/Associate
Academic Field(s)	Materials Sciences/Polymer Sciences
Job Website	https://ntu.wd3.myworkdayjobs.com/Careers/job/NTU-Main-Campus-Singapore/Senior-Research-Engineer-I--Engineering-Material-Science-Physics-Chemistry--_R00020495
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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

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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 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>.

To deliver the NTU campus sustainability project with the industry collaborator, the project includes 2 main areas:

- Solar panel degradation analysis and identification of root cause of degradation in performance of PV panels
- Improve performance of PV assets in terms of energy generation during operational cycle and rectify the underperforming assets.

Key Responsibilities:

The candidate scope of work includes 2 main areas of responsibilities, and the candidate is expected to work with research and industry collaborators to deliver the project.

Area A:

- Responsible for regeneration equipment related activities. This includes equipment procurement, ownership, license, and maintenance.
- Execution and operation of regeneration activities and perform characterization and analysis for the project.
- Documentation of the results, reports and prepare quality presentation materials.

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Area B:

- Support journal/conference publications when required, meet relevant collaborators.
- Capable of making independent contributions and to meet project deliverables.
- Support researchers both within the team and industry collaborator for delivering the projects and to meet the project deadline.
- Provide training/supervision for the internship students and research/industry collaborators involved in this project.

Job Requirements:

- Candidate with degree in engineering/material science/physics/chemistry or related fields in preferred.
- Candidates with Master's degree preferred.
- 2 - 3 years of working experience is preferable.
- Industrial/lab experience in solar energy/industry is preferred.
- Material characterization experience would be counted as a plus.
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Team player with good communication & interpersonal skills, ability to work in a team as well as independently.

- Able to carry out and summarize literature research and study.
- Able to work under pressure and meet tight deadlines.
- Able to communicate with other researchers (internal and external) and engineers effectively.

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

Singapore