

Research Fellow (Carbon Capture & Utilization and
Critical Materials Recovery)
Nanyang Technological University

Direct Link: <https://www.AcademicKeys.com/r?job=258962>

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Posted Jul. 2, 2025, set to expire May 6, 2026

Job Title	Research Fellow (Carbon Capture & Utilization and Critical Materials Recovery)
Department	Nanyang Environment and Water Research Institute (NEWRI)
Institution	Nanyang Technological University Singapore, , Singapore
Date Posted	Jul. 2, 2025
Application Deadline	Open untill filled
Position Start Date	Available Immediately
Job Categories	Research Scientist/Associate
Academic Field(s)	Chemistry - General
Job Website	https://ntu.wd3.myworkdayjobs.com/Careers/job/NTU-Main-Campus-Singapore/Research-Fellow--Carbon-Capture---Utilization-and-Critical-Materials-Recovery-_R00021189
Apply Online Here	https://ntu.wd3.myworkdayjobs.com/Careers/job/NTU-Main-Campus-Singapore/Research-Fellow--Carbon-Capture---Utilization-and-Critical-Materials-Recovery-_R00021189
Apply By Email	
Job Description	

Globally recognized as a leading research and technology organization, the Nanyang Environment and Water Research Institute (NEWRI) addresses national priorities through its diverse expertise in

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Biotechnology and Bioprocesses, Membrane Technology, Chemicals and Materials, Resource Recovery, and Modeling & Artificial Intelligence. By harnessing its cross-cutting, interdisciplinary, and transformative capabilities, NEWRI drives innovation in water circularity and sustainability, next-generation solid waste solutions, circular economy resource recovery, climate resilience and digitalization.

For more details, please view <https://www.ntu.edu.sg/newri>.

We are looking for a Research Fellow to conduct research on novel technologies for desalination, decarbonization, and material recovery at NTU.

Key responsibilities:

- Conduct membrane and separation technology related projects for desalination, decarbonization, resource recovery etc.
- Experimental setup design and construction, experiment design and testing, process modelling, data processing and reporting, progress report preparation, etc.
- Journal paper publication.
- Assistance in research proposal preparation, etc.
- Assistance in mentoring junior students/researchers

Job Requirements:

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- PhD degree from a reputable university in chemical engineering, environmental engineering, mechanical engineering, etc.
- Excellent journal paper publication record.
- Proficient oral presentation, report writing and multitasking skills.
- Relevant research experience on electrodialysis, electrochemical processes and/or electrode synthesis will be preferred.
- Relevant research experience on green energy production (e.g., H₂ and fuels), production or recycling of construction and critical energy materials (e.g., lithium and critical metals), will be preferred.
- Relevant research experience in scaling up electrochemical water technology, carbon capture and utilization will be preferred.
- Self-motivated and able to work independently
- and in a team.
- Good interpersonal skills
- Good written and oral communication skills
- Strong responsibility for research.

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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