

Research Associate (Carbon Materials Enhanced
Concrete)
Nanyang Technological University

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Posted Nov. 21, 2025, set to expire May 6, 2026

Job Title	Research Associate (Carbon Materials Enhanced Concrete)
Department	Energy Research Institute @ NTU
Institution	Nanyang Technological University Singapore, , Singapore
Date Posted	Nov. 21, 2025
Application Deadline	Open untill filled
Position Start Date	Available Immediately
Job Categories	Research Scientist/Associate
Academic Field(s)	Civil Engineering Material/Metallurgy
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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 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.

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

Key Responsibilities:

- Responsible for new carbon material-enhanced concrete by incorporating various carbon materials that are securely stored while improving concrete properties.
- Conduct comprehensive testing on all relevant aspects of the advanced concrete materials developed.
- Perform cost-benefit analysis and Life Cycle Assessment (LCA) of the developed materials.
- Carry out research on carbon material-enhanced concretes using various forms of carbon and demonstrate the developed materials in suitable large-scale applications.
- Collaborate within the PI's group on related research topics, including self-healing materials, self-sensing materials, sustainable cementless materials using regional waste/by-products, 3D-printable concrete, and low-carbon footprint concretes.

Job Requirements

- Master's degree in a relevant field, with strong research experience and an excellent journal publication record.
- Prior experience in similar research and a proven track record of journal publications and/or IP generation will be highly reviewed.
- Prior relevant experiment skills such as nano and/or microstructural based material tailoring, novel and sustainable concrete development, geopolymers or other green cement, mechanical testing, thermal and/or electrical conductivity testing, and material chemical and micro-structural

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analysis.

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