

Research Associate (Engineering - Mechanical,  
Clean/Renewable Energy/Building)  
Nanyang Technological University

Direct Link: <https://www.AcademicKeys.com/r?job=267972>

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

**Job Title** Research Associate (Engineering - Mechanical,  
Clean/Renewable Energy/Building)

**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/CleanTech-One/Research-Associate--Engineering---Mechanical--Clean-Renewable-Energy-Building-\\_R00022489](https://ntu.wd3.myworkdayjobs.com/Careers/job/CleanTech-One/Research-Associate--Engineering---Mechanical--Clean-Renewable-Energy-Building-_R00022489)

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**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>

You will be part of a dynamic research team working on topics relevant to the Sustainable Built Environment (SBE). The SBE team focuses on building energy modelling and simulation, decarbonization strategies for the built environment and R&D of green building technologies such as HVAC systems, thermal energy storage, data-driven building control systems and other novel solutions for the urban built environment sector. This position is to recruit a member of the research team to work on a project on sustainable indoor farming.

**Key Responsibilities:**

- You will need to actively support SBE projects at ERI@N in terms of project R&D, technology evaluation, project coordination, and stakeholder interfacing.
- The role will include the following:
  - Conduct research, analysis and performance assessment of agritech/indoor farming testbeds, including design and implementation of integrated plant/energy/environmental database and model-predictive control for indoor farming applications.
  - Assist project team in deployment of testbeds and instrumentation for testing and validation of agritech/green building solutions e.g. equipment or hardware/software systems.
  - Lead in preparation and submission of project reports/test reports.
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Work closely with industry partners to realize synergies in testbeds, site implementation and demonstration.

- Engage stakeholders at management and working levels internally as well as with external funding agencies, collaborators and industry partners, including delivering presentations and guiding discussions or workshops as necessary.
- Assist in authoring of technical publications for completed or ongoing research projects.

- You will be an integral part of the SBE team and will need to participate in project discussions especially related to project implementation details.
- Familiarity with green building technology, HVAC system study and optimization, sustainable building design, and building energy modelling, CFD modelling or BIM modelling for built environment applications is preferred.
- Knowledge in test instrumentation, PLC programming and cloud-based/IoT applications is preferred.
- Prior experience in sustainability standards and green building accreditations would be advantageous.

### **Job Requirements**

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Masters degree in engineering (e.g. Mechanical, Clean/Renewable Energy or Building related) or sustainable buildings design.

- Experience in sustainable design/analysis for the built environment, Green Mark or LEED projects, M&E construction and development (min 1yr preferred).
- Proficient in MS Office applications, MATLAB, CFD or energy modelling software.
- Should be a very hands-on person, willing to take on non-routine tasks.
- Possess good communication (written and verbal) skills.
- Able to manage multiple stakeholders and work under tight timelines.
- Positive attitude, ability to work independently as well as in a team.

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