

Research Engineer (Water Treatment and Membrane
Development) ZJ4
Singapore Institute of Technology

Direct Link: <https://www.AcademicKeys.com/r?job=251068>

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Posted Jan. 6, 2025, set to expire Jul. 5, 2025

Job Title Research Engineer (Water Treatment and Membrane
Development) ZJ4

Department Food, Chemical and Biotechnology

Institution Singapore Institute of Technology
Singapore, , Singapore

Date Posted Jan. 6, 2025

Application Deadline Open until filled

Position Start Date Available immediately

Job Categories Professional Staff

Academic Field(s) Water Resources Engineering
Chemical/Petroleum

Job Website <https://careers.singaporetech.edu.sg/cw/en/job/498828/research-engineer-water-treatment-and-membrane-development-zj4>

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Job Description

Research Engineer (Water Treatment and Membrane Development) ZJ4

Job no: 498828

Department: Food, Chemical and Biotechnology

Contract type: Contract

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As a University of Applied Learning, SIT works closely with industry in our research pursuits. Our research staff will have the opportunity to be equipped with applied research skill sets that are relevant to industry demands while working on research projects in SIT.

The primary responsibility of this role is to deliver on an industry innovation research project where you will be part of the research team to develop novel membranes and separation processes for wastewater treatment and resource recovery.

Key Responsibilities:

- Participate in and manage the research project with Principal Investigator (PI), Co-PI and the research team members to ensure all project deliverables are met.
- Undertake these responsibilities in the project:
 - i. Synthesis of nanomaterials
 - ii. Fabrication of membranes
 - iii. Characterize, evaluate and optimize the membranes
 - iv. Wastewater treatment and resource recovery experiments and simulation
 - v. Basic engineering design and economic cost analysis
- Carry out Risk Assessment, and ensure compliance with Work, Safety and Health Regulations.
- Coordinate procurement and liaison with vendors/suppliers.
- Work independently, as well as within a team, to ensure proper operation and maintenance of equipment.

Job Requirements:

- Have relevant competence in the areas of water treatment and membrane development
- Have a degree in chemical engineering or related fields. Possessing a Master's or PhD degree will be advantageous
- Knowledge of polymer synthesis and material chemistry will be advantageous

Key Competencies:

- Able to build and maintain strong working relationships with people within and external to the university.
- Self-directed learner who believes in continuous learning and development
- Proficient in technical writing and presentation
- Possess strong analytical and critical thinking skills

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- Show strong initiative and take ownership of work

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Advertised: 06 Jan 2025 Singapore Standard Time

Applications close: 31 Dec 2025 Singapore Standard Time

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

Singapore