

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