

## Research Engineer (Membrane System) - EA5 Singapore Institute of Technology

Direct Link: <https://www.AcademicKeys.com/r?job=255364>

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Posted Apr. 3, 2025, set to expire Aug. 3, 2025

**Job Title** Research Engineer (Membrane System) - EA5  
**Department** Engineering  
**Institution** Singapore Institute of Technology  
Singapore, , Singapore

**Date Posted** Apr. 3, 2025

**Application Deadline** Open until filled

**Position Start Date** Available immediately

**Job Categories** Research Scientist/Associate

**Academic Field(s)** Mechanical Engineering

**Job Website** <https://careers.singaporetech.edu.sg/cw/en/job/498893/research-engineer-membrane-system-ea5>

**Apply By Email**

**Job Description**

## Research Engineer (Membrane System) - EA5

**Job no:** 498893

**Department:** Engineering

**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

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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 a demonstration scale low pressure membrane system in collaboration with Atera Water Pte Ltd.

### Key Responsibilities

Applicants are invited for a Research Engineer in low pressure membrane system (LPMS). Reporting to the Project Principal Investigator (PI), you will assist in all administration matters including overseeing, planning, forecasting, budgeting as well as ensuring the smooth running of the daily operations for the project

1. Assists in co-supervision of final year projects (FYP) or capstone projects students or student helpers under the Project PI.
2. Assist in designing, planning and setting up of a demonstration scale LPMS plant at a site allocated by PUB.
3. Assist in designing, planning and setting up of a lab-scale LPMS plant at a SIT Punggol campus
4. Assist in carrying out of experiment, data logging and analysis of data collected.
5. Work with computational fluid dynamics (CFD) results generated by an expert to correlate with experimental data
6. Assists the PI in drafting of reports, conference proceedings and journal articles based on the outcome of the projects.
7. Prepares and shares fortnightly report of results from the computations with the program director and PI.
8. Support the procurement and maintenance of the software/hardware under the charge of the PI

### Requirements

The appointee should have a strong foundation in fluid dynamics and understanding of fluid (air and water) flow is important. Appointee should also have experience with design of experiments, carrying out experiments and results analysis. Prior experience working with membrane systems will be a plus.

1. A recognised degree from a good University
2. B.Eng or M.Eng in Mechanical Engineering, Aeronautical Engineering, chemical or environmental engineering
3. Strong foundation in Fluid Dynamics
4. Able to work independently with strong data analytical skills, communication, and interpersonal

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skills.

5. Proficient in handling large data sets and the ability to analysis and interpret results
6. Experience with internet of things setup and controller design (PLC or embedded computing)

### Key Competencies

- Good self-discipline and motivated to deliver
- Show strong initiative and take ownership of work
- 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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**Advertised:** 03 Apr 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