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

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	

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Job no: 498893
Department: Engineering
Contract type: Contract
Apply now

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 Dyanmics
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

Apply now
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