

Associate Professor in Materials/Mechanical (Building
Services / Built Environment)
Singapore Institute of Technology

Direct Link: <https://www.AcademicKeys.com/r?job=219691>

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Posted Aug. 15, 2023, set to expire Jul. 5, 2024

Job Title Associate Professor in Materials/Mechanical (Building Services
/ Built Environment)

Department Engineering

Institution Singapore Institute of Technology
Singapore, , Singapore

Date Posted Aug. 15, 2023

Application Deadline Open until filled

Position Start Date Available immediately

Job Categories Associate Professor

Academic Field(s) Mechanical Engineering
Construction Engineering/Management

Job Website <https://careers.singaporetech.edu.sg/cw/en/job/498483/associate-professor-in-materialsmechanical-building-services-built-environment>

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Job Description

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Contract type: Contract, Permanent

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FACULTY OPENINGS AT THE SINGAPORE INSTITUTE OF TECHNOLOGY

The Singapore Institute of Technology (SIT) is Singapore's first University of Applied Learning, offering industry-relevant degree programmes that prepare its graduates to be work- and future-ready professionals. Its mission is to maximise the potential of its learners and to innovate with industry, through an integrated applied learning and research approach, so as to contribute to the economy and society.

The university's unique pedagogy integrates work and study, embracing authentic learning in a real-world environment through collaborations with key strategic partners. Its focus on applied research with business impact is aimed at helping industry innovate and grow. Targeted to be ready in 2024, SIT's centralised campus within the larger Punggol Digital District will feature a vibrant learning environment where academia and industry will be tightly integrated with the community. SIT espouses an applied learning approach and offers degrees with a strong focus on science and technology. Our faculty work closely with industry on translational research and innovation, as well as provide consultancy on solutions to industry challenges. This well-established nexus with industry endows our graduates with deep skills and work-ready training experience - attuning them to the needs and demands of the future economy.

SIT is also establishing strategic live test beds known as 'Living Labs' both within and beyond its upcoming Punggol campus to support greater experiential learning and strengthen its applied research offerings. The university's pool of Engineering experts works with multi-disciplinary teams to drive strategic translational research in key areas such as energy resilience, sustainable infrastructure engineering and maintenance, and maritime engineering.

As a young university, we encourage innovation and seek the right candidates to join us in realising our vision into an increasingly vibrant reality. We offer competitive remuneration, generous employment benefits, access to funding to undertake research of relevance to industry, and opportunities to inspire and nurture the next generation of skilled and work-ready undergraduates.

For this faculty position, we are looking for candidates with an engineering background, who have

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extensive experience in HVAC systems, district cooling systems and thermal fluid science.

Job Description:

SIT is seeking a highly qualified and motivated individual for the position of **Associate Professor** in Thermodynamics, Fluid Mechanics, Industry-Ready HVAC, and District Cooling Systems. This position emphasizes excellence in teaching and applied research. As an Associate Professor, you will play a crucial role in shaping the education and research endeavors of our institution.

Teaching Responsibilities:

- Delivering high-quality lectures and interactive classes in Thermodynamics, Fluid Mechanics, Industry-Ready HVAC, and District Cooling at the undergraduate and graduate levels.
- Developing engaging course materials, including syllabi, lecture notes, assignments, and assessments, in accordance with established curriculum guidelines.
- Employing innovative teaching methods and technologies to enhance student learning experiences.
- Mentoring and advising students on academic and career-related matters.
- Evaluating and providing constructive feedback on student performance, including assessments and projects.
- Actively engaging in academic research to stay up-to-date with the latest developments in the field.

Applied Research Responsibilities:

- Conducting cutting-edge research in Thermodynamics, Fluid Mechanics, Industry-Ready HVAC, and District Cooling, with an emphasis on practical applications and industry relevance.
- Seeking external funding and grants to support research projects and initiatives.
- Collaborating with colleagues, both within the institution and externally, to foster interdisciplinary research and contribute to the overall research goals of the department.
- Publishing research findings in reputable journals and presenting at conferences and symposia.
- Supervising graduate students in their research work and guiding them to facilitate their success.
- Engaging with industry partners and stakeholders to develop collaborative research projects and foster technology transfer.

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General Responsibilities:

- Actively participating in departmental meetings, committees, and other administrative tasks as required.
- Contributing to the continuous improvement and development of the curriculum, course materials, and teaching methodologies.
- Demonstrating a commitment to fostering an inclusive and diverse learning environment.
- Engaging in professional development activities to enhance teaching and research skills.
- Promoting the institution's reputation through active involvement in professional societies and organizations.
- Providing mentorship and guidance to junior faculty members and assisting in their professional growth.

Qualifications:

- A Ph.D. in a relevant field, such as Mechanical Engineering, Thermal Engineering, or a closely related discipline.
- A strong record of teaching excellence in Thermodynamics, Fluid Mechanics, Industry-Ready HVAC, and District Cooling, demonstrated through student evaluations and peer assessments.
- Significant experience in applied research, with a focus on practical applications in industry.
- A track record of scholarly publications and presentations in reputable journals and conferences.
- Experience in securing external research funding and managing research projects.
- Strong communication and interpersonal skills to effectively engage with students, colleagues, and industry partners.
- The ability to work collaboratively in a team-oriented academic environment.
- A commitment to promoting diversity, equity, and inclusion in education and research.

Successful candidates will join the Engineering (ENG) Cluster (one of five academic clusters in SIT), as members of a team of accomplished experts passionate about higher education and deeply involved in industry transformation through applied research programmes.

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Contact Information

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