

Research Engineer/ Fellow (Metabolic Engineering) - AW2 Singapore Institute of Technology

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Posted Jun. 9, 2023, set to expire Jul. 5, 2024

Job Title Research Engineer/ Fellow (Metabolic Engineering) - AW2
Department Chemical Engineering and Food Technology
Institution Singapore Institute of Technology
Singapore, , Singapore

Date Posted Jun. 9, 2023

Application Deadline Open until filled

Position Start Date Available immediately

Job Categories Research Scientist/Associate

Academic Field(s) Chemical/Petroleum
Bioengineering (all Bio-related fields)

Job Website <https://careers.singaporetech.edu.sg/cw/en/job/498441/research-engineer-fellow-metabolic-engineering-aw2>

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Job Description

Research Engineer/ Fellow (Metabolic Engineering) - AW2

Job no: 498441

Department: Chemical Engineering and Food Technology

Contract type: Contract

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As a University of Applied Learning, SIT works closely with industry in our research pursuits. Our

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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 a research project where you will be part of the research team to develop yeast and fungi for food ingredient and biochemical production. The specific goals are:

1. Metabolic engineering of *Yarrowia* and *Candida* yeasts for organic acid production
2. Design and optimization of fermentation method in 10L and 100L stirred tank vessels

Key Responsibilities:

- Fulfill the primary responsibilities within the project:
 - i. Deliver structured presentations of research plans and findings every two weeks.
 - ii. Provide guidance and mentorship to junior research engineers and undergraduate students working in the same research field.
 - iii. Prepare scientific manuscripts for reporting and potential publication (as first or co-author).
- Prepare writeup for new research grant application
- Support undergraduate lab class conduct where applied research outcomes are utilized in undergraduate teaching.
- Conduct thorough risk assessments and ensure adherence to work, safety, and health regulations for all research activities.
- Coordinate procurement activities with licensed vendors for research items.

Job Requirements:

- Have a relevant PhD degree in Biochemistry or Biochemical Engineering
- Have at least 1 year experience with the metabolic engineering of *Yarrowia* and *Candida* yeasts, including foreign gene expression and gene deletion.
- Have at least 1 year experience with the use of bioreactor, HPLC-MS and GC-MS.
- Prior experience in the genetic manipulation of filamentous fungi cell line engineering is 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

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- Proficient in technical writing and presentation
- Possess strong analytical and critical thinking skills
- Show strong initiative, take ownership of work, and able to cope with failures

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Advertised: 09 Jun 2023 Singapore Standard Time

Applications close: 31 Dec 2023 Singapore Standard Time

Contact Information

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

Contact

Singapore