

Research Engineer (in the field of dehydrated food products) (HSS/VT&WMY)  
Singapore Institute of Technology

Direct Link: <https://www.AcademicKeys.com/r?job=244496>

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Posted Sep. 9, 2024, set to expire Jul. 5, 2025

**Job Title** Research Engineer (in the field of dehydrated food products) (HSS/VT&WMY)

**Department** Health and Social Sciences

**Institution** Singapore Institute of Technology  
Singapore, , Singapore

**Date Posted** Sep. 9, 2024

**Application Deadline** Open until filled

**Position Start Date** Available immediately

**Job Categories** Research Scientist/Associate

**Academic Field(s)** Food Sciences/Technology/Toxicology

**Job Website** <https://careers.singaporetech.edu.sg/cw/en/job/498766/research-engineer-in-the-field-of-dehydrated-food-products-hssvtwmy>

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**Job Description**

## Research Engineer (in the field of dehydrated food products) (HSS/VT&WMY)

**Job no:** 498766

**Department:** Health and Social Sciences

**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.

We have positions in the area of food process development and product commercialisation. We invite outstanding and talented candidates who are passionate about foods and have a strong desire to develop or enhance their food processing R&D competencies to apply for these positions.

This role manages the process development and modelling, packaging selection, quality management, shelf-life modeling, and costing of dehydrated food products. The ideal candidate has a sound knowledge of industrial dehydration techniques in food manufacturing, able to investigate how these processes affect food product attributes and develop a plan for pilot scale production. In addition to theoretical expertise, the role requires planning and execution of product scale-up trials and conducting shelf life modelling studies. This role also oversees laboratory exploration of alternative food processing techniques to manipulate food textures. Relevant industry and/or process modelling experience will be viewed favourably.

**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 key responsibilities in the project:
  - i. Develop food manufacturing plan for target food product
  - ii. Develop food packaging prototypes
  - iii. Plan and conduct product scale up trials
  - iv. Conduct shelf-life studies
  - v. Perform process costing for target food product
- Document, publish and present research findings to project stakeholders
- Carry out Risk Assessment, and ensure compliance with Work, Safety and Health Regulations.
- Coordinate procurement and liaison with vendors/suppliers.

**Job Requirements:**

- An excellent degree in food technology, chemical engineering
- Experience in food processing, process analytics and/or modelling

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- Knowledge of food product characterisation and shelf-life evaluation
- Evidence of ability to lead, manage and perform research independently as well as in a group

**Key Competencies:**

- Strong experimentation skills and theoretical knowledge in food engineering
- Able to work independently as well as to maintain strong working relationships with people within and external to the university.
- Show strong initiative and sense of responsibility
- Proficient in technical writing and presentation
- Possess a high degree of self-motivation and curiosity in technical pursuits, with the ability to develop original ideas
- Possess a desire to engineer new solutions to help the aging society

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**Advertised:** 09 Sep 2024 Singapore Standard Time

**Applications close:** 31 Dec 2024 Singapore Standard Time

**Contact Information**

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

**Contact**

Singapore