

Research Engineer
Singapore Institute of Technology

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Posted Nov. 11, 2024, set to expire Jul. 5, 2025

Job Title Research Engineer

Department Food, Chemical and Biotechnology

Institution Singapore Institute of Technology
Singapore, , Singapore

Date Posted Nov. 11, 2024

Application Deadline Open until filled

Position Start Date Available immediately

Job Categories Research Scientist/Associate

Academic Field(s) Mechanical Engineering
Food Process Engineering
Chemical/Petroleum
Bioengineering (all Bio-related fields)

Job Website <https://careers.singaporetech.edu.sg/cw/en/job/498801/research-engineer-ignition-azn3>

Apply By Email

Job Description

Research Engineer (Ignition) - AZN3

Job no: 498801

Department: Food, Chemical and Biotechnology

Contract type: Contract

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 an industry-partnered Ignition research project where you will be part of a collaborative team exploring innovative ways of characterizing the physical and rheological properties of liquid personal care products and understanding the impact of these properties in product design and process development.

Key Responsibilities

In this role, you will perform shear and extensional rheological characterization of a large variety of liquid personal care products including lotions, topical oils, and more. We will explore innovative and emerging methods of rheological characterization and analyzing rheological data to extract material parameters to build a database of materials. Working with our industrial partner we will establish an understanding of rheological properties that are useful for product formulation and process design related to lab and larger scale extrusion/dispensing applications.

More specific responsibilities include:

- Participate in and manage the research project with Principal Investigator (PI), and the research team members to ensure all project deliverables are met.
- Undertake development of rheological protocols and characterization of liquid personal care products
- Formulate model materials with various additives to understand their impact on product rheology
- Design, execute, and interpret experiments independently and with support from the PI.
- Prepare and deliver written articles, reports, and presentations for industrial partners and external audiences.
- Attend and present at regular group meetings to receive feedback on work done and future plans
- Carry out Risk Assessment, and ensure compliance with Work, Safety and Health Regulations.
- Coordinate procurement and liaison with vendors/suppliers.
- Work independently, as well as within a team.

Job Requirements

- Have relevant competence in the areas of rheological characterization and analysis, wet lab work, material formulation
- Have a degree in pharmaceutical engineering, chemical engineering, mechanical engineering, food or materials science/engineering, or a related field. Possessing a Master's degree will be advantageous.
- Knowledge of any of the following will be advantageous: material dispensing/extrusion

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processing, material science, textural and sensory analysis

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.
- Proficient in communicating via technical writing and presentations.
- Possess strong analytical and critical thinking skills.
- Show strong initiative and take ownership of work.

Advertised: 11 Nov 2024 Singapore Standard Time

Applications close: 30 Jun 2025 Singapore Standard Time

Contact Information

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

Contact

Singapore