

Research Engineer (Food Science & Technology / Chemical Engineering)

Singapore Institute of Technology (SIT)

Job Purpose

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.

The primary role of this position involves contributing to an industry innovation research project. As a member of the research team, you will participate in the research and development of an integrated solution encompassing food science, mathematical modelling, and chemical engineering.

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 responsibilities in the project:
 - 1) Carry out laboratory experiments and pilot plant trials to develop extraction processes for obtaining nutrients from food sources.
 - 2) Conduct instrumental analysis on food nutrients and generate product specifications.
 - 3) Perform data analysis and mathematics modelling.
 - 4) Draft technical report.
- Carry out Risk Assessment, and ensure compliance with Work, Safety and Health Regulations.
- Coordinate procurement and liaison with vendors/ suppliers and assist in equipment maintenance and lab management.
- Work independently and maintain good communication in teamwork, to ensure proper operation.

Job Requirements

- Bachelor's degree in Food Science & Technology, Chemical Engineering, or related fields.
- Relevant experience in food analysis and chemical extraction process. Fresh graduates are welcome to apply.
- Knowledge in mathematical modelling will be advantageous.
- Proficient in English writing and speaking.
- Effective communication and interpersonal skills, and able to work in a multi-disciplinary team.

Key Competencies

- Show strong initiative and take ownership of work.
- Self-directed learner who believes in continuous learning and development.
- Possess strong analytical and critical thinking skills.
- Proficient in technical writing and presentation.
- Able to build and maintain strong working relationships with people within and external to the university.