

Research Fellow/Engineer (Cell-Cultured Meat
Manufacturing/Singapore Food Story) - AZN1
Singapore Institute of Technology

Direct Link: <https://www.AcademicKeys.com/r?job=215740>

Downloaded On: May. 8, 2024 10:40pm

Posted Jun. 26, 2023, set to expire Jul. 5, 2024

Job Title Research Fellow/Engineer (Cell-Cultured Meat
Manufacturing/Singapore Food Story) - AZN1
Department Chemical Engineering and Food Technology
Institution Singapore Institute of Technology
Singapore, , Singapore

Date Posted Jun. 26, 2023

Application Deadline Open until filled

Position Start Date Available immediately

Job Categories Research Scientist/Associate

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

Job Website <https://careers.singaporetech.edu.sg/cw/en/job/498394/research-fellowengineer-cellcultured-meat-manufacturingsingapore-food-story-azn1>

Apply By Email

Job Description

Research Fellow/Engineer (Cell-Cultured Meat Manufacturing/Singapore Food Story) - AZN1

Job no: 498394

Department: Chemical Engineering and Food Technology

Contract type:

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Contract

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Key Responsibilities

In this role, you will design and fabricate materials for facilitating media production using innovative stimuli-responsive microstructures via top-down or bottom-up methods and investigate the mechanical properties and functionality of these materials. Characterization will focus on quantifying the relationships between structural features of the material and the ultimate performance.

Working with our collaborators at Temasek Polytechnic and the National University of Singapore (<https://news.nus.edu.sg/novel-technique-to-grow-meat-in-the-lab-using-magnetic-field/>), we seek to enhance and optimize a methodology for producing animal-serum-free cell media to help deliver on the promise of sustainability, security, and resilience with cell-based meats.

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 and characterization of a scaffold for sustaining and later recovering cells in suspension.
- Design, execute, and interpret experiments independently.
- Author papers in high-quality journals in areas that are related to the research.
- Carry out Risk Assessment, and ensure compliance with Work, Safety and Health Regulations.
- Coordinate procurement and liaise with vendors/suppliers.
- Work independently, as well as within a team.

Job Requirements

- Have relevant competence in the areas of wet lab work, analytical instrumentation, material formulation.
- Have an advanced degree in bioengineering, chemical engineering, mechanical engineering, materials science and engineering, or a related field.
- Knowledge of any of the following will be advantageous: rheology, biomaterials, microfluidics, microscopy, colloidal science, gels

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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.

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Advertised: 26 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