

## Research Fellow (Red Blood Cell Cultivation) - AW3 Singapore Institute of Technology

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**Job Title** Research Fellow (Red Blood Cell Cultivation) - AW3  
**Department** Food, Chemical and Biotechnology  
**Institution** Singapore Institute of Technology  
Singapore, , Singapore

**Date Posted** Jul. 23, 2024

**Application Deadline** Open until filled  
**Position Start Date** Available immediately

**Job Categories** Research Scientist/Associate

**Academic Field(s)** Biology - General

**Job Website** <https://careers.singaporetech.edu.sg/cw/en/job/498733/research-fellow-red-blood-cell-cultivation-aw3>

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**Job Description**

## Research Fellow (Red Blood Cell Cultivation) - AW3

**Job no:** 498733

**Department:** Food, Chemical and Biotechnology

**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

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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 scale up cultivation of red blood cells from shake flask bioreactors. The specific goals are:

1. Cultivation of immortalized red blood cells in shake flask and lab-scale bioreactors in fed-batch and perfusion modes
2. Media optimization by Design-of-Experiment and statistical analysis.

### 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 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
- 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 Biological Sciences, Bioprocess Engineering or equivalent.
- Have at least 1 year experience with the cultivation of mammalian cells
- Have at least 1 year experience with the use of bioreactors, HPLC-MS, GC-MS, flow cytometry and/or fluorescent microscopy.
- Prior experience in the red/white blood cell cultivation 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
- Proficient in technical writing and presentation
- Possess strong analytical and critical thinking skills
- Demonstrate strong commitment, leadership and independence.

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**Advertised:** 23 Jul 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