

Research Fellow (Biomedical Electronics / Robotics)
Nanyang Technological University

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Posted May 21, 2024, set to expire Apr. 1, 2025

Job Title	Research Fellow (Biomedical Electronics / Robotics)
Department	School of Electrical and Electronic Engineering
Institution	Nanyang Technological University Singapore, , Singapore
Date Posted	May 21, 2024
Application Deadline	Open until filled
Position Start Date	Available Immediately
Job Categories	Professional Staff
Academic Field(s)	Mechanical Engineering Electrical and/or Electronics
Job Website	https://ntu.wd3.myworkdayjobs.com/en-US/Careers/job/Research-Fellow--Biomedical-Electronics---Robotics-_R00017234
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Job Description	

A Research Fellow position is currently available in the School of Electrical & Electronic Engineering.

The Research Fellow will work on a project to conduct the research on development ingestible

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electronic/robotic platform capable of continuous monitoring and on-demand for the treatment of inflammatory bowel disease and to conduct the investigation on development of ingestible robotic system to enable continuous monitoring of disease relevant biomarkers and on-demand delivery of therapeutics in the gastrointestinal tract in a non-invasive and automated manner. Novel sensors and actuators and their encapsulation methods will be investigated.

Key Responsibilities:

- Development of sensors that are capable of operating in harsh environment, such as 100% humidity and pH ranging 1-4.
- Development of a reconfigurable robotic platform with ingestible form factor and capable of controlled gastrointestinal retention.
- Integration of power management circuit, actuators for motion control, and monitoring sensors.

Job Requirements:

- PhD in Mechanical, Electrical and Electronic Engineering or related field
- 4-year research experience in related area
- Expertise in large animal studies, such as swine and sheep
- Knowledge in interfacing circuit design for low power sensing and wireless communication
- Experiences in biosensors and actuators for biomedical applications are highly preferred
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Publication track record is preferred.

- Proficiency in basics of programming languages such as C, C++ and Python
- Proficiency in English as need to publish results

We regret that only shortlisted candidates will be notified.

Contact Information

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

Contact

Singapore