

Research Fellow (Biomedical Electronics / Robotics)  
Nanyang Technological University

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

<b>Job Title</b>	Research Fellow (Biomedical Electronics / Robotics)
<b>Department</b>	School of Electrical and Electronic Engineering
<b>Institution</b>	Nanyang Technological University Singapore, , Singapore
<b>Date Posted</b>	May 21, 2024
<b>Application Deadline</b>	Open until filled
<b>Position Start Date</b>	Available Immediately
<b>Job Categories</b>	Professional Staff
<b>Academic Field(s)</b>	Mechanical Engineering Electrical and/or Electronics
<b>Job Website</b>	<a href="https://ntu.wd3.myworkdayjobs.com/en-US/Careers/job/Research-Fellow--Biomedical-Electronics---Robotics-_R00017231">https://ntu.wd3.myworkdayjobs.com/en-US/Careers/job/Research-Fellow--Biomedical-Electronics---Robotics-_R00017231</a>
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<b>Apply By Email</b>	
<b>Job Description</b>	

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