

Research Fellow (Biomedical Electronics / Robotics)  
Nanyang Technological University

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Downloaded On: Nov. 22, 2024 6:48am

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

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|-----------------------------|---|
| <b>Job Title</b>            | Research Fellow (Biomedical Electronics / Robotics)   |
| <b>Department</b>           | School of Electrical and Electronic Engineering   |
| <b>Institution</b>          | Nanyang Technological University<br>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<br>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> |
| <b>Apply Online Here</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> |
| <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