

Research Assistant (Edge Computer for Translational
Medicine)
Nanyang Technological University

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Posted May 24, 2024, set to expire Apr. 1, 2025

Job Title	Research Assistant (Edge Computer for Translational Medicine)
Department	School of Electrical and Electronic Engineering
Institution	Nanyang Technological University Singapore, , Singapore
Date Posted	May 24, 2024
Application Deadline	Open until filled
Position Start Date	Available Immediately
Job Categories	Professional Staff
Academic Field(s)	Electrical and/or Electronics Computer Engineering
Job Website	https://ntu.wd3.myworkdayjobs.com/en-US/Careers/job/Research-Assistant--Edge-Computer-for-Translational-Medicine-_R00017282
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Apply By Email	
Job Description	

The School of Electronic and Electrical Engineering (EEE) is one of the founding Schools of the Nanyang Technological University. Built on a culture of excellence, the School is renowned for its high academic standards and research. With more than 130 faculty members and an enrolment of more than 4,000, of which close to 1,000 are graduate students, it is one of the largest EEE schools in the

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world and ranks 4th in the field of Electrical & Electronic Engineering in the 2021 QS World University Rankings by Subjects.

EEE is inviting applications for the position of Research Assistant. The Research Assistant will work on a project to conduct the investigation on development of ingestible robotic system to enable continuous monitoring of disease relevant biomarkers and decision-making for on-demand delivery of therapeutics in the gastro intestinal tract in a non-invasive and automated manner. Novel sensors and actuators as well as their circuit design interface and algorithms for will be investigated.

Key Responsibilities:

- Development of circuit for implementing FPGA and microcontroller for implementing edge computing in ingestible/implantable electronics.
- Development of AI accelerator for encryption of wireless communication in medical electronics.

Job Requirements:

- Bachelor in Electrical and Electronic Engineering, Computer Engineering, or related field
- Expertise in embedded system and FPGA
- 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.

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