Research Fellow (Biomedical Engineering)
Nanyang Technological University

Job Title	Research Fellow (Biomedical Engineering)
Department	School of Chemistry, Chemical Engineering, and Biotechnology
Institution	Nanyang Technological University
	Singapore, , Singapore
Date Posted	Apr. 3, 2024
Application Deadline	Open until filled
Position Start Date	Available Immediately
Job Categories	Professional Staff
	Faculty Associate
	Research Scientist/Associate
Academic Field(s)	Bioengineering (all Bio-related fields)
	Electrical and/or Electronics
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Job Description

Join the pioneering team at NTU's School of Chemistry, Chemical Engineering, and Biotechnology as a Research Fellow to lead innovative research in AI-based smart healthcare monitoring devices. This role focuses on developing cutting-edge biosensors, lab-on-chip, and wearable technologies to transform healthcare diagnostics and patient monitoring. Collaborate with a dynamic, interdisciplinary team to publish impactful research, secure funding, and mentor the next generation of scientists. Contribute to a project that stands at the intersection of technology and healthcare, aiming to create

real-world solutions for global health challenges.

Key Responsibilities:

- Research and Development: Lead cutting-edge research in the development of AI-based smart healthcare monitoring devices. This involves the ideation, design, and implementation of innovative solutions that leverage biosensor development, lab-on-chip, and point-of-care technologies.

- Data Analysis: Utilize advanced data science and artificial intelligence techniques for the analysis of heterogeneous health data. This includes applying machine learning and computer vision algorithms to interpret complex datasets, with the aim of improving diagnostics and patient monitoring.

- Collaboration and Leadership: Collaborate with a multidisciplinary team of researchers, clinicians, and engineers both within NTU and with external partners. Guide and mentor junior researchers and students, fostering a collaborative and productive research environment.

- Innovation and Improvement: Formulate and devise novel approaches and methodologies to enhance the performance and functionality of healthcare monitoring technologies. Stay abreast of the latest developments in biomedical engineering, artificial intelligence, and related fields to continuously improve project outcomes.

- Publication and Dissemination: Responsible for publishing high-impact research findings in peer-reviewed journals and presenting work at international conferences. Ensure the dissemination of research results to the scientific community, healthcare professionals, and the public to maximize societal impact.

- Grant Writing and Fund Management: Assist in the preparation of grant proposals and manage research funds efficiently. This includes budgeting for project needs, resource allocation, and ensuring the successful execution of project milestones within budgetary constraints.

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Job Requirements:

- Hold a PhD in Biomedical Engineering, Electrical Engineering, or a related field, with experience in biosensor development, wearable technology, and artificial intelligence applications in healthcare.

- A strong publication record, proficiency in interdisciplinary collaboration, and excellent communication skills are essential.

- Strong foundation in lab-on-chip and point-of-care technologies, with a focus on innovation and practical applications in healthcare.

- Demonstrable skills in wearable electronics, including the development and integration of wearable devices for health monitoring.

- Proficiency in artificial intelligence, specifically in applying machine learning and computer vision techniques to healthcare data.

- A driven individual ready to lead, innovate, and make a tangible impact in smart healthcare technology.

- A solid track record of high-impact publications in peer-reviewed journals.

- Experience with interdisciplinary research and the ability to work effectively in a team-oriented environment.

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Capability to independently design and execute research projects, including data analysis and interpretation.

- Excellent written and verbal communication skills, with the ability to present complex information clearly to a variety of audiences.

- Proficiency in writing grant proposals and securing research funding.

- Experience mentoring or leading junior researchers, students, or project teams.

- Strong collaborative skills, with evidence of working effectively in multidisciplinary teams.

- Commitment to continuous learning and staying abreast of the latest developments in the field.

- Participation in professional networks and associations relevant to biomedical engineering and healthcare technology.

- Basic understanding of molecular biology techniques (e.g., PCR, ELISA) is desirable.

- Experience in stakeholder engagement, including with healthcare professionals, industry partners, and the wider community.

We regret that only shortlisted candidates will be notified.

Contact Information

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Contact

Singapore