Research Associate / Research Fellow (Artificial Intelligence in Education and Academic) Nanyang Technological University

Job Title	Research Associate / Research Fellow (Artificial Intelligence in Education and Academic)
Department	School of Electrical and Electronic Engineering
Institution	Nanyang Technological University Singapore, , Singapore
Date Posted	May 6, 2025
Application Deadline	Open untill filled
Position Start Date	Available Immediately
Job Categories	Research Scientist/Associate
Academic Field(s)	Electrical and/or Electronics Computer Science
Job Website	https://ntu.wd3.myworkdayjobs.com/Careers/job/NTU-Main-Campus-Singapore/Research-Associate---Research-Fellow--Artificial-Intelligence-in-Education-and-Academic-_R00020627
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Apply By Email	

Job Description

School of Electrical and Electronic Engineering 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 over 3,000 undergraduates students and 2,000 graduate students it is one of the largest EEE schools in the world and ranks 4th in the field of Electrical & Electronic Engineering in the 2025 QS World University Rankings by Subjects.

Today, the School has become one of the world's largest engineering schools that nurtures competent engineers and researchers. Each year, the School graduates over a thousand students who are ready to take on great ambitions and challenges.

For more details, please view: https://www.ntu.edu.sg/eee.

We are seeking an interdisciplinary Research Associate/Research Fellow with expertise in Artificial Intelligence (AI)/Machine Learning (ML), pedagogical research in Institutes of Higher Learning (IHLs), and web/mobile application development (both front-end and back-end). The successful candidate will play a key role in designing and implementing AI-enhanced educational technologies, while also contributing to pedagogical research to improve teaching and learning outcomes in higher education. The Research Associate/Research Fellow is also expected to support teaching activities as required by the school.

Key Responsibilities:

- Conduct research on the use of AI/ML in education, including personalized learning systems, intelligent feedback, and learning analytics

- Investigate and evaluate innovative pedagogical models relevant to higher education, such as blended learning, active learning, and flipped classrooms

- Design, develop, and deploy web and mobile applications that support educational research and technology-enhanced learning

- Lead or contribute to full-stack software development, including both front-end (e.g., React, Flutter, HTML/CSS/JavaScript) and back-end (e.g., Node.js, Django, Flask, databases) components

- Work closely with faculty and software engineers to translate pedagogical needs into scalable

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digital solutions

- Design and implement empirical studies to evaluate the effectiveness and usability of developed tools and interventions

- Publish findings in peer-reviewed journals and present at academic conferences

- Support grant writing and project reporting

- Mentor student assistants or interns as needed.

- Assist the school in various teaching activities, including instructing or supervision of labs and tutorials.

Job Requirements:

- MSc/MEng (Research Associate) or PhD (Research Fellow) in Electrical and Electronics Engineering, Computer Science, AI, Educational Technology, or related field

- Strong proficiency in full-stack development for web/mobile applications, including front-end frameworks (e.g., React, Flutter, Vue) and back-end technologies (e.g., Node.js, Python/Django/Flask, REST APIs, SQL/NoSQL databases)

- Demonstrated knowledge of AI/ML methods, such as supervised learning, NLP, or deep learning, with application to educational contexts

- Understanding of learning theories, instructional design, or pedagogical innovation in higher education

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Experience with learning platforms, learning analytics, or educational research tools

- Excellent communication skills, with the ability to explain technical solutions to non-technical stakeholders

- Strong project management, problem-solving, and collaboration skills in cross-functional teams

- Good written and oral communication skills.

We regret to inform 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