Research Fellow (Human-in-the-Loop AI perception system) (LX)
Singapore Institute of Technology

Job Title	Research Fellow (Human-in-the-Loop AI perception system) (LX)
Department	Infocomm Technology
Institution	Singapore Institute of Technology Singapore, , Singapore
Date Posted	Jun. 6, 2025
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Research Scientist/Associate
Academic Field(s)	Computer Engineering Computer Science
Job Website	https://careers.singaporetech.edu.sg/cw/en/job/498946/research-fellow-humanintheloop-ai-perception-system-lx
Apply By Email	
Job Description	

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Job no: 498946
Department: Infocomm Technology
Contract type: Contract
Apply now

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As a University of Applied Learning, SIT works closely with industry in our research pursuits. Our research staff will have the opportunity to be equipped with applied research skill sets that are relevant to industry demands while working on research projects in SIT. The primary responsibility of this role is to deliver on an innovation research project where you will be part of the research team to conduct applied research in the topic of Human-in-the-Loop AI perception system that leverages user concerns and identified driving scenarios to generate new and relevant driving scenes for enhancing the perception system performance for autonomous vehicles (AV).

Key Responsibilities:

- Participate in and manage the research project with Principal Investigator (PI), Co-PI and the research team members to ensure all project deliverables are met.
- Undertake these responsibilities in the project:
    1. Conduct the research work in Human-in-the-Loop AI perception system for autonomous driving
    2. Work with the research team, collaborators and the industry partner to design the framework of the proposed solution
- Carry out Risk Assessment, and ensure compliance with Work, Safety and Health Regulations.
- Coordinate procurement and liaison with vendors/suppliers.
- Work independently, as well as within a team, to ensure proper operation and maintenance of equipment.

Job Requirements:

- Have relevant competence in the areas of Deep Learning/Computer Vision. The experience in diffusion models is a plus.
- Have a PhD degree in computer science/engineering or related disciplines.
- Knowledge of autonomous vehicles or cyber security will be advantageous.
- Have strong research record, preferably on top-tier computer science/engineering conferences.

Key Competencies:

- Specialized in computer science, computer engineering, or relevant disciplines
- Enthusiasm in the Deep learning and AV related research
- Proficient in paper writing and presentation
- Possess strong analytical and critical thinking skills
- Able to build and maintain strong working relationships with people within and external to the

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university
- Self-directed learner who believes in continuous learning and development
- Show strong initiative and take ownership of work

Major Challenges:

- Work with multiple parties including local university researchers, and overseas researchers

Apply now
Advertised: 06 Jun 2025 Singapore Standard Time
Applications close: 30 Sep 2025 Singapore Standard Time

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

Singapore