

Research Fellow (Computer Science/Mechanical
Engineering/Aerospace Engineering)
Nanyang Technological University

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Posted Apr. 2, 2024, set to expire Aug. 2, 2024

Job Title	Research Fellow (Computer Science/Mechanical Engineering/Aerospace Engineering)
Department	School of Mechanical and Aerospace Engineering
Institution	Nanyang Technological University Singapore, , Singapore
Date Posted	Apr. 2, 2024
Application Deadline	Open until filled
Position Start Date	Available Immediately
Job Categories	Research Scientist/Associate Faculty Associate Professional Staff
Academic Field(s)	Mechanical Engineering Computer Science Aerospace/Aeronautical/Astronautics
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Apply By Email

Job Description

In 2013, the Civil Aviation Authority of Singapore (CAAS) and Nanyang Technological University (NTU) jointly established the Air Traffic Management Research Institute (ATMRI) in Singapore, with the vision to set up a renowned ATM research institute, finding innovative solutions, and catalysing an ATM transformation in the region. ATMRI is currently leading cutting-edge research on ATM, with the vision

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to facilitate next-generation ATM by developing advanced AI and Data Analytics.

ATMRI is seeking to hire a Research Fellow to conduct research in developing artificial intelligence methods and Deep Learning models to improve the performance, reliability and safety of airport operations in the face of increasing demand and inherent uncertainties (for e.g. weather and delays) in the air traffic management (ATM) system.

Key Responsibilities:

- Conduct research in artificial intelligence methods and deep learning models.
- Collect and analyze air traffic data related to the project.
- Develop optimization algorithm and models for airport-airside optimization.
- Run simulations and perform visualization and data analysis.
- Develop prototypes and intelligent tools for computer vision enabled digital towers.
- Assist Principal Investigator with project management and lead/mentor research team.
- Communicate and collaborate effectively with industrial and academic partners.
- Publish in top conferences and journals.

Job Requirements:

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- PhD degree in computer science, mechanical, or aerospace engineering.
- Strong publication record in top journals (SCI Q1) and peer-reviewed aviation conferences.
- Strong theoretical background in machine learning, computational intelligence and optimization.
- Strong programming skills in Python, C++, MATLAB.
- Good English writing and communication skills.
- Can work independently and be a team player.
- Able to multitask between project and research tasks.

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