

Research Associate (Computer Science/Aerospace
Engineering/Operation Research)
Nanyang Technological University

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Posted Apr. 2, 2024, set to expire Apr. 1, 2025

Job Title	Research Associate (Computer Science/Aerospace Engineering/Operation Research)
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	Professional Staff Research Scientist/Associate
Academic Field(s)	Computer/Information Sciences
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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 to facilitate next-generation ATM by developing advanced AI and Data Analytics.

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ATMI is inviting applications for the position of Research Associate. The Research Associate will be part of a research team to study the use of Artificial Intelligence and Data Analytics in Air Traffic Management Systems.

Key Responsibilities:

- Support research and development related to Artificial Intelligence and Machine Learning applied to Air Traffic Control and Air Traffic Management.
- Develop algorithms and models (Deep Learning/Deep Reinforcement Learning), perform data mining, doing analytics for future for Air Traffic Control Operations.
- Develop prototypes and intelligent tools for Air traffic management.
- Support Principal Investigator/Team Lead with project management activities and preparation of progress reports.
- Communicate and collaborate effectively with industrial and academic partners.

Job Requirements:

- Master's degree in Computer Science, Aerospace Engineering, Operation Research or equivalent.
- Experience in programming and have excellent knowledge of Python Programming Languages.
- Demonstrated project experience related to applied Machine Learning, Data Mining, Air Traffic

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Control or Air Traffic Management

- Publication in peer-reviewed conferences and/or journals related to Machine Learning/Air Traffic Management.
- Good English writing and communication skills
- Able to work independently and be a team player

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