

Research Associate (Battery Management)
Nanyang Technological University

Direct Link: <https://www.AcademicKeys.com/r?job=230796>

Downloaded On: May. 11, 2024 10:02am

Posted Feb. 15, 2024, set to expire Jun. 16, 2024

Job Title	Research Associate (Battery Management)
Department	School of Mechanical and Aerospace Engineering
Institution	Nanyang Technological University Singapore, , Singapore
Date Posted	Feb. 15, 2024
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Professional Staff
Academic Field(s)	Aerospace/Aeronautical/Astronautics
Job Website	https://ntu.wd3.myworkdayjobs.com/en-US/Careers/details/Research-Associate--Battery-Management-_R00015788?q=R00015788
Apply Online Here	https://ntu.wd3.myworkdayjobs.com/en-US/Careers/details/Research-Associate--Battery-Management-_R00015788?q=R00015788
Apply By Email	
Job Description	

The eVTOL Research and Innovation Centre at School of Mechanical & Aerospace Engineering (MAE), Nanyang Technological University, Singapore, is looking for a Research Associate in the area of Battery Management.

Research Associate (Battery Management)
Nanyang Technological University

Direct Link: <https://www.AcademicKeys.com/r?job=230796>

Downloaded On: May. 11, 2024 10:02am

Posted Feb. 15, 2024, set to expire Jun. 16, 2024

Key Responsibilities:

- Lead the design of advanced battery systems for electric vertical take-off and landing aircraft.
- Develop and implement state-of-the-art Battery Management Systems (BMS) to monitor, control, and protect battery packs.
- Ensure BMS functionality aligns with the unique operational requirements of electric vertical take-off and landing aircraft.
- Conduct thorough analysis of battery performance, including energy density, thermal management, and charging/discharging characteristics.
- Plan and conduct battery system lab test, ground test and flight test to assess battery performance under various flight conditions, including take-off, landing, and emergency scenarios.
- Conduct failure mode and effect analysis to identify potential risks and develop strategies to mitigate them.
- Manage and guide BMS supplier to fulfil industry standards and compliance.
- Generate detailed technical documentation, including specifications, schematics, and test reports.

Job Requirements:

- Master's degree in electrical engineering, aerospace engineering or related field.
-

**Research Associate (Battery Management)
Nanyang Technological University**

Direct Link: <https://www.AcademicKeys.com/r?job=230796>

Downloaded On: May. 11, 2024 10:02am

Posted Feb. 15, 2024, set to expire Jun. 16, 2024

Proven experience in the design and development of battery systems for electric vehicles or aerospace applications.

- Expertise in Battery Management Systems (BMS) and battery technology.
- Strong knowledge of industry standards and regulations related to battery management.
- Experience with simulation tools, testing methodologies, and data analysis.
- Excellent problem-solving and communication skills.
- Fluent English skill is a must.

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