Research Associate (Electrical and Battery)
Nanyang Technological University

Job Title	Research Associate (Electrical and Battery)
Department	School of Mechanical and Aerospace Engineering
Institution	Nanyang Technological University Singapore, , Singapore
Date Posted	Jun. 5, 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
Apply Online Here	https://ntu.wd3.myworkdayjobs.com/en-US/Careers/details/Research-Associate--Battery-Management-_R00015788
Apply By Email	
Job Description	

The eVTOL Research and Innovation Centre at Nanyang Technological University, Singapore, is looking for a strong candidate in the area of Electrical and Battery Engineering.

Key Responsibilities:

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- Lead the design and development of both high voltage and low voltage power systems for eVTOL aircraft powerplant system, ensuring compliance with industry standards and safety regulations.
- Identify and select appropriate high and low voltage components, such as circuit breakers, control panels, and converters, considering efficiency, reliability, and weight constraints.
- Develop detailed specifications for electrical system, working closely with harness and electrical component suppliers, provide technical guidance and support to ensure compliance with design requirements.
- Design the electrical schematic drawings for eVTOL powerplant system.
- Guide the EWIS supplier to design high and low voltage harness drawings.
- Manage and ensure the product to fulfil industry standards and compliance.
- Plan and conduct harness ATS testing with elections.
- Plan and conduct lab test, ground test and flight test of the electrical system.
- Document the description, electrical load analysis, test plan and environment test report for electrical system.
- Lead the design of advanced battery systems for electric vertical take-off and landing aircraft.
- Define technical specifications for eVTOL aircraft.
- Plan and conduct battery system ground test and flight test to assess battery performance under

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various flight conditions, including take-off, landing, and emergency scenarios.

Job Requirements:

- Bachelor’s or master’s degree in electrical engineering, aerospace Engineering, or related field.
- Proven 3-5 experience in designing high voltage power systems for automobile or aircraft.
- In-depth knowledge of electrical system architecture and components, with a focus on high voltage applications.
- Familiar with AS50881H, AIR6127 standards.
- Experience with aviation certification processes is a plus.
- 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.

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Contact

Singapore