

Research Engineer II (Electrical Engineering)
Nanyang Technological University

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

Job Title	Research Engineer II (Electrical Engineering)
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-Engineer-II--Electrical-Engineering-_R00015789?q=R00015789
Apply Online Here	https://ntu.wd3.myworkdayjobs.com/en-US/Careers/details/Research-Engineer-II--Electrical-Engineering-_R00015789?q=R00015789
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Job Description	

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

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Key Responsibilities:

- Lead the design and development of both high voltage and low voltage power systems for eVTOL aircraft, 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.
- 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.

Job Requirements:

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Bachelor's or master's degree in electrical engineering, aerospace Engineering, or related field.

- Proven 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.

Contact

Singapore