

Senior Research Engineer II (Electrical Engineering) Nanyang Technological University

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Posted Aug. 28, 2024, set to expire May 6, 2025

Job Title	Senior Research Engineer II (Electrical Engineering)
Department	School of Electrical and Electronic Engineering
Institution	Nanyang Technological University Singapore, , Singapore
Date Posted	Aug. 28, 2024
Application Deadline	Open untill filled
Position Start Date	Available Immediately
Job Categories	Research Scientist/Associate
Academic Field(s)	Aerospace/Aeronautical/Astronautics Electrical and/or Electronics
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Job Description

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

Key Responsibilities:

- Lead the design and development of both high voltage and low voltage power systems for

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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:

- Bachelor's or master's degree in electrical engineering, aerospace Engineering, or related field.
- At least 5 years and above working experience
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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.

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