

Research Fellow/Engineer (Electric Vehicle) - DSK2 Singapore Institute of Technology

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Posted Oct. 25, 2023, set to expire Jul. 5, 2024

Job Title Research Fellow/Engineer (Electric Vehicle) - DSK2

Department Engineering

Institution Singapore Institute of Technology
Singapore, , Singapore

Date Posted Oct. 25, 2023

Application Deadline Open until filled

Position Start Date Available immediately

Job Categories Research Scientist/Associate

Academic Field(s) Electrical and/or Electronics
Computer Science

Job Website <https://careers.singaporetech.edu.sg/cw/en/job/498538/research-fellowengineer-electric-vehicle-dsk2>

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Job Description

Research Fellow/Engineer (Electric Vehicle) - DSK2

Job no: 498538

Department: Engineering

Contract type: Contract

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As a University of Applied Learning, SIT works closely with industry in our research pursuits. Our

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research staff will have the opportunity to be equipped with applied research skill sets that are relevant to industry demands while working on research projects in SIT.

The primary responsibility of this role is to deliver on an industry innovation research project where you will be part of the research team to lead the hardware installation, simulation, testing, and integration of vehicle-to-grid platform hardware components, with a focus on PLC & SCADA programming to establish electric vehicle fleet management and grid services.

Key Responsibilities

- Participate in and manage the research project with Principal Investigator (PI), Co-I and the research team members to ensure all project deliverables are met.
- Lead and oversee the installation of vehicle-to-grid hardware components ensuring compliance with industry standards and safety protocols.
- Program, configure, and optimize PLC and SCADA systems for seamless energy management in vehicle-to-grid interactions.
- Create and simulate various test case scenarios to ensure the robustness and reliability of the vehicle-to-grid systems.
- Work closely with the software development team to ensure smooth integration of hardware components with vehicle-to-grid software solutions.
- Collaborate with the industry partners and IHLs to integrate electric vehicle management modules in the vehicle-to-grid platform.
- Publish research findings in reputable journals and present at conferences and workshops.
- Produce high-quality annual reports and documentation outlining research findings, installation procedures, hardware configurations, and user guides.
- Mentor and collaborate with graduate students and junior researchers, providing guidance and support in their research activities.
- Assist in writing grant proposals and securing funding for future research projects.
- Collaborate with industry partners and stakeholders to ensure the practical applicability and relevance of the research outcomes.
- Coordinate procurement and liaison with vendors/suppliers.
- Work independently, as well as within a team, to ensure proper operation and maintenance of equipment.

Job Requirements

- Ph.D. in Electrical Power Engineering, Computer Science or a related field, with a strong

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research focus on vehicle-to-grid technologies.

- Strong understanding of the electric vehicle sector and vehicle-to-grid technologies, standards, and protocols.
- Proficiency in PLC and SCADA programming is advantageous.
- Extensive experience in hardware development, integration and troubleshooting.
- Proficiency in programming languages (e.g., Python, MATLAB, Java) and simulation tools commonly used in research.
- Strong analytical and problem-solving skills, with the ability to critically evaluate and interpret research data.
- Excellent written and verbal communication skills, with the ability to publish research findings and present at conferences.
- Proven track record of research publications in reputable journals and conferences

Key Competencies

- Able to build and maintain strong working relationships with people within and external to the university.
- Self-directed learner who believes in continuous learning and development
- Proficient in technical writing and presentation
- Possess strong analytical and critical thinking skills
- Show strong initiative and take ownership of work.

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Advertised: 25 Oct 2023 Singapore Standard Time

Applications close: 31 Jan 2024 Singapore Standard Time

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

Singapore

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