

Research Fellow/Engineer (Electric Vehicle Software) -
DSK3
Singapore Institute of Technology

Direct Link: <https://www.AcademicKeys.com/r?job=224385>

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

Job Title Research Fellow/Engineer (Electric Vehicle Software) - DSK3
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/498539/research-fellowengineer-electric-vehicle-software-dsk3>

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Job Description

Research Fellow/Engineer (Electric Vehicle Software) - DSK3

Job no: 498539

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 develop a cloud-based vehicle-to-grid platform and integrate the smart optimization algorithms with a charging management software and develop necessary communication infrastructure 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 the development of software solutions to facilitate energy exchange between electric vehicles and grid.
- Work closely with hardware team to ensure seamless integration of software solutions with vehicle-to-grid hardware components.
- Collaborate with the industry partners and IHLs to establish a cloud-based data management platform to integrate electric vehicle management modules.
- Publish research findings in reputable journals and present at conferences and workshops.
- Produce high-quality annual reports outlining research findings, software architecture, 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 research focus on vehicle-to-grid technologies.
- Strong understanding of the electric vehicle sector and vehicle-to-grid technologies, standards, and protocols.
- Prior experience with cloud computing is advantageous.

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- Experience in algorithm development, optimization, and data analysis in the context of electric vehicles.
- 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