

## Smart Grid Program - Research Engineer

**Company Name:** ENGIE LAB SINGAPORE PTE LTD

**Workplace Address:** 108 Pasir Panjang Road #05-03 Golden Agri Plaza Singapore 118535

**Estimated start date of internship:** 03/08/2020

**Estimated end date of internship:** 02/02/2021

**Area of specialisation of the student:** Engineering

**Field of work of the company:** ENGIE is a global energy company, a leading provider of electricity, natural gas, and energy services. With 153,090 employees in more than 70 countries worldwide, ENGIE achieved revenue of €66.6 billion in 2016. ENGIE is committed to being a leader in the energy transition. In 2015, ENGIE Direction of Research and Technologies (DRT) launched a research and expertise Lab in Singapore: ENGIE Lab Singapore or ELSG – Asia Pacific Centre of Excellence for Low-Carbon and Distributed Energy Resources, as a regional hub for APAC. The Lab's activities consist of managing R&D projects and providing services based on its technological expertise. ELSG is a high level research center of excellence, developing solutions to meet the energy challenges of APAC and supporting regional ENGIE business units to help them maintain a high quality of service. Primarily, ELSG addresses 3 technological areas : Smart Energies for Cities and Islands; Decarbonisation of Industries and Green Gases.

### Description of the internship offer:

Smart grid program is one of the 3 key programs in ENGIE Lab Singapore. Within this program, REIDS (Renewable Energy Integration Demonstrator – Singapore) is a platform which aims at fostering innovation in renewable technologies for microgrids in order to promote sustainable and affordable energy for remote areas in Southeast Asia. As a founding partner, ENGIE is developing its own multifluid microgrid SPORE (Sustainable Powering of Off-Grid Region) with the local university NTU. Gathering several technologies including wind turbine, PVs, a hydrogen plant and batteries, SPORE is not only a demonstrator but also a platform supporting R&D activities such as system management designing.

#### Main tasks:

- Assisting the EPC (Engineering, Procurement & Construction) phase (several assets will be commissioned next year)
- Supporting the R&D studies for Smart Grid Program
- Coordinating the organization of meetings or events with stakeholders or directors (depending on the calendar)
- Other activities according to the project situation

### Required Skills (if any):

- Undergraduate or postgraduate engineering student
- Excellent written and oral command of English
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- Education in engineering. Working or internship experience in the energy or building sector will be an added advantage
- Interest in energy sector, renewable energy and smart grid technologies
- Team spirit, proactive attitude and ability to work independently