

POSITION: APPLICATION ENGINEER (RENEWABLES & ESS)

JOB PROFILE / JOB DESCRIPTION:

The role reports directly to the Application Manager, Center of Excellence and has responsibility for the below solution sets:

Solutions:

1. Renewables Development in different Battery Technologies
2. Energy Storage System (Containerised Solutions)

Responsibilities:

1. Proactively specifying technical solutions and Fuji Bridex range of Renewable and ESS products and solutions in Singapore market.
2. Provide pre-sales consultancy to M&E consultant and customers for Critical Infrastructure with special emphasis on Battery Storage, Energy Storage System and DC Power Systems.
3. Design and development of EMS (energy management system), BMS (battery management system), battery charge controllers, integration of different types of sensors and equipment, architect solutions for low to high voltage configurations with accompanying SLD and BOM.
4. Assesses customer design requirements, evaluates possible solutions and provides technical recommendations that support the feasibility and functionality for the proposed system.
5. Component selection and evaluation for converters (AC-DC and DC-DC), switches, relays, electrical boxes, cable routing, etc... for prototype testing.
6. Performs system administration activities, which includes coordinating and managing the purchasing, installation, and testing of the components.
7. Assures technical support problem resolution related to the approved system design through cooperative relationship with various other departments, e.g. Sales & Project Operations.
8. Conceptualise, Develop and Maintain processes, protocols, and documentation related for the assigned systems ensuring compliance to both local and international code of practices.
9. Effectively communicates with all levels of the organization to ensure project success and user needs are identified and met.
10. Prepares Project Proposals and budgets; performs analysis for new technologies and system innovations.
11. Provide insights through industry & market research, competition research, technology trend analysis to study improvement required for Fuji Bridex's products.

Background / Experience Required:

- Bachelor's Degree in Electrical Engineering or related fields.
- 3 – 5 years of experience in power control/quality/application environment.
- Knowledge in Renewables especially in battery storage calculations with different technologies.
- Knowledge in ESS & EMS for energy storage system.
- Strong technical knowledge in Electrical Power and Control.
- Proven track record in power electronics/power system development projects.
- Good understanding and interpretation of electrical single line diagram, Singapore code of practice, and IEC standards is preferred.
- Familiar with the various power topologies and designs.
- Mature personality and able to work independently and with a team.
- Good interpersonal and time management skills.