



**Job Title:** Power Electronics Project Engineer

### General Description

The Project Engineer will be responsible for the development and oversight of integration of power electronic systems and specifications for components of circuits for power distribution (Renewable Energy sources, MPPT, DC/DC converters, Rectifiers, and DC loads) used for integration into commercial building applications to power DC loads. The individual will work closely with the customer to design an appropriate system using readily available products and ensure the components specified will meet the necessary requirements. The individual will be responsible for evaluating UL / NEC specific requirements, developing component specific specifications, and ensuring the component specifications are meeting the necessary requirements. The product specifications will be handed off to a design team for development of the product. Once the product is developed, the individual will be responsible for managing the product through the appropriate NEC process for approval. Finally, the individual will be responsible for integrating the components into systems at customer locations.

### Education / Requirements

- Bachelor of Science in Electrical Engineering or higher
- Past experience with technical writing and specifications
- Knowledge and experience with evaluating and preparing product specifications and product performance test procedures or plans.
- Knowledge of UL/CE standards for testing and rating power electronics a plus
- Experience designing electrical systems that comply with North American and International codes and standards
- Superior interpersonal skills
- **Possess unrestricted authorization to work in the United States**
- Effective interaction with other engineering discipline skills a must
- Ability to Travel (varies based on project requirements)

### Responsibility

- Responsible for the flow down requirement and implementation of concepts in the field of AC and DC Power Conversion.
- Development and technical writing of very detailed design specifications while evaluating different customer and regulatory specifications
- Participate in design reviews, monitor and address any design changes associated to changes in specification.
- Responsible for the implementation of concepts in the field of AC and DC power conversion
- Development of requirements from customers that lead into a system level design
- Interfaces with internal/external contacts to include vendors, subcontractors and prime contractors on technical matters
- Participate in system application design reviews, monitor and address any design changes associated to changes in specification, taking care to foresee and prevent unintended consequences
- Independently performs field installation and test activities

- Assists as required with technical proposals and cost estimates related to contract changes and new projects
- Develops project related requirements for products from customer specifications for new or modified designs
- Provides and develops accurate material lists for both internal and external requirements on projects
- Keeps abreast of technologies used by the company, industry to remain current and prepared for technology changes within the work environment
- Provides input to schedules and cost to complete for project assignments

### **Specific Requirements**

- You must possess a private driver's license, pass an employment test and undergo a reference or security check.

### **Additional requirements:**

- To be considered for the position applicants must describe their experiences with all of the responsibilities listed in the job description; the software packages you have worked with; your ability to reference National Electrical Codes; your working knowledge of complex electrical / electronic equipment and circuits, ability to read and edit complex materials, checklist, blueprints, and diagrams.

### **Salary Range**

- Commensurate with experience. Budgeted (\$50K – \$70K)