



Siliken Renewable Energy provides full-turnkey commercial and utility-scale photovoltaic solar power worldwide. A new corporate headquarters has been established in Carlsbad, CA with a solar module factory being built in San Diego, CA for sole use by the company's design and installation team. We have a core management team with experience in the energy business, are extremely vertically-integrated, manufacture electronics grade silicon and solar panels, design and install solar power systems, provide PPA financing and perform system maintenance.

## **Solar Electrical Design Engineer, PE**

### **Description:**

The Solar Power Plant Electrical Design Engineer provide electrical analysis, evaluation and design for incoming Request for Proposals and the final design after acceptance of bids.

### **Skills/Qualifications:**

Engineering Degree (EE) or equivalent, PE-Profession Engineering License for the State of California, California General and Electrical Contracting License (B1, C-10) desirable, MSEE a plus, medium voltage design desirable, Site Development, Planning, Legal Compliance, Design Skills, Decision Making, Informing Others, Project Management, Attention to Detail, Flexibility, Quality Focus, Job Knowledge. Generate data, report, etc. using Word, PowerPoint, Excel spreadsheets, Visio and MS Project.

### **Primary Duties/Physical Responsibilities:**

The incumbent will plan, organize, design and draw solar power plant electrical needs and to make sure of economical, safe and effective use of materials, energy and people.

### **Electrical Design Engineer tasks:**

- Review incoming Request for Proposals and analyze.
- Perform site tours nationwide, as required.
- Review labor and hardware for vendor bids.
- Analyze, design, develop, draw and maintain full documentation of electrical issues for installation of large-scale solar power to existing commercial or utility connections.
- Confers with management and engineering staff to implement plans and recommendations.
- Track and document manpower needs and utilization for installation and maintenance.
- Develop a comprehensive PM program and schedule for all equipment coordinating with suppliers, engineers and EHS.
- Introduce or recommend changes to work methods, safety measures and work organization.
- Develop troubleshooting procedures and guidelines for maintenance.
- Specifies, analyzes & designs for production processes and process documentation.
- Plans utilization of construction area, equipment, materials, and personnel to improve efficiency of operations.



- Plan unloading equipment from trucks, removing equipment from crates, assembly of equipment, placement and alignment of equipment, mechanical/ electrical connections within the equipment and with adjoining tools.
- Track and update installation plans and schedules coordinating with engineers, suppliers, facilities and contractors.

#### Duties:

- Develops field construction projects by studying objectives and requirements; integrating project with long-range engineering plans; surveying sites; designing staking sheets; completing calculations; listing materials and supplies; developing cost estimates; preparing construction schedules; obtaining approvals and right-of-way easements; coordinating plans, schedules, and requirements with gas, telephone, water, and sewer companies.
- Supervises field construction by issuing work orders; resolving design issues; verifying materials used by contractors; meeting requirements of, and resolving issues with, local and state authorities.
- Avoids legal challenges by complying with legal and codes requirements.
- Keeps information accessible by filing plans and documents; updating field engineering maps, drawings, materials, and specifications databases; documenting installations and modifications.
- Provides project status information by collecting and summarizing construction and materials data, and coordinating actions.
- Updates job knowledge by remaining current with regulations; participating in educational opportunities; reading professional publications; maintaining personal networks; participating in professional organizations.
- Accomplishes engineering and organization mission by completing related results as needed.

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