



Title: Electrical Engineer

Reports to: Engineering Manager - Electrical and Controls

Company and Position Description

Array Technologies, Inc. (Array) has been the world's leading solar tracking company for 30 years. We are experiencing explosive growth built on our best-in-class products and dynamic teams. Join us, a global leader in tracking technology and help us bring clean, reliable, and economic solar power to the world.

We seek professionals with electrical and mechanical engineering experience to join our growing team. The Electrical Engineer will be responsible for the electrical design, support and refinement of our solar tracker robots and diagnostic products. The successful candidate will be able to identify functional problems and suggests resolutions. They will assist in the definition of internal quality control standards and the maintenance of reliability programs. They will analyze test cases and provide regular progress reports. This position is full-time and exempt. Pay is dependent on experience.

Duties and Responsibilities

- Electrical design and support for solar trackers (wiring and cabling, grounding...)
- Electrical and software design for test equipment
- Support solar tracker controls products (software and hardware)
- Ensure electrical products meet UL, NEC, and NIST standards; work with those agencies to obtain certifications.
- Provide customer phone support on the operation of the equipment and assist customers in debugging of equipment problems.
- Prepare technical drawings, specifications of electrical systems to ensure that installation and operations conform to standards and customer requirements.
- Confer with engineers, customers, or others to discuss existing or potential engineering projects or products.
- Design, implement, maintain, or improve electrical instruments, equipment, components, products, or systems.
- Prepare detailed drawings that include specifications and cost estimates.
- Develop engineering calculations, diagrams and technical reports
- Complete required technical and regulatory documents
- Ensure projects are completed on-time and within the specified budget
- Present analysis results and project solutions to technical leads, senior leaders and clients as necessary
- Able to travel to jobsite to assist with start-up of equipment when required to do so.
- Design and install cable harnessing.
- Other duties as assigned

Required Knowledge, Skills, and Abilities

- Experience with AC motor controls and control logic.
- Understanding of UL and CE standards.
- Solar power plants
- Solar trackers
- Microcontroller and/or PLC software
- LabView
- Power system protection design
- Control and sensor circuit design
- Wire & cable system design
- Electrical CAD (SolidWorks req'd, AutoCAD a bonus)
- Wireless/RF networking experience
- SCADA design knowledge a plus
- Control Panel design desired

Education and Experience

- BSEE required. MS desired.
- 5+ years related experience required.
- Experience with motor control circuits including designing circuits, sizing and specifying components and hands-on troubleshooting.
- Experience with relay control circuits.

- Experience applying variable speed drives
- Customer support experience
- Experience writing technical documentation
- Versed in reliability analysis and testing
- Firm experience with electrical product certification
- Developing electrical systems and documentation for low voltage DC and AC motor control systems