



Our Mission: Generating Affordable Renewable Energy

Test Engineer Energy Innovations San Diego, California

The Company:

Energy Innovations, based in San Diego, CA has pioneered the development of Highly Concentrated Photovoltaic (HCPV) systems that use concentration to substantially reduce the cost of solar energy. EI's mission is to leverage the benefits of concentrated solar to achieve economic parity with fossil fuel generated power alternatives, making EI the first choice for alternative energy.

EI's breakthrough Sunflower system uses Fresnel lenses to concentrate the sun 1,200:1 onto ultra high efficiency solar cells adapted from the satellite industry. Our module operates at twice the efficiency of traditional crystalline silicon PV panels and when coupled with our revolutionary low cost 2-axis tracker, generates 30% more energy than current generation PV panels.

EI is seeking a Sr. Test Engineer to lead the company's subassembly and final assembly test development efforts. This role will principally develop automated test equipment (ATE) that will test sub-assemblies and the completed module. These ATE stations are highly automated to handle volumes of 100k to 1M units/year. In addition, this role will support the company's UL and IEC certification efforts.

Energy Innovations is an operating company of Idealab, a prolific creator and operator of technology businesses. More information can be found at:

www.EnergyInnovations.com

www.Idealab.com

Position Purpose:

Reporting to the VP of Operations, the Test Engineer will plan, design and implement the parametric and validation testing of new product designs & concepts. This position will work with design engineers to ensure the quality and reliability of EI's products.

Key Position Accountabilities

- Handle all aspects of Electrical and Photovoltaic subassembly and final module acceptance testing.
 - Write test specs & create test procedures.
 - Design, procure, build, setup and commission Automated Test Equipment (ATE) and manual test stations.
 - Setup data acquisition systems and create databases to store parametric test data.
 - Design & implement necessary systems to support test operation, data gathering, and analysis.
 - Write work instructions for manufacturing personnel to properly and reliably use ATE systems.
 - Write test reports including analyses and conclusions.
 - Work closely with design engineers to incorporate test plans and recommend design improvements with Design for Testability in mind.
 - Train technicians on proper test execution and equipment operation & maintenance.
 - Present test data and conclusions to the engineering team as well as to senior management as required.
 - Support preparing samples and documentation for certification testing including UL and FCC.
 - Schedule calibration of traceable instrumentation.
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Requirements:

- BS degree computer science, electrical engineering or related discipline and a minimum of 3 years related work experience.
- Experience with development of Automated Test Equipment (ATE) in a high volume environment.
- Experience with software such as LabView, LabWindows CVI, Visual Basic and Visual C.
- Familiarity with ATE database development and ATE UI creation.
- Familiar with SQC and Halt methodology.

- Ability to calculate test uncertainties and design ATE equipment with six sigma in mind.
- Must have hands on, mechanical & electrical aptitude.
- Knowledge of mechanical design and documentation practices, understanding specifications, engineering mathematics, statistics and manufacturing and quality control practices such as Six Sigma.
- Must be able to work independently in a fast changing environment, prioritizing multiple tasks, providing guidance and supervising technicians, while managing deadlines.