



**Energy
Innovations**

Our Mission: **Generating Affordable Renewable Energy**

Manufacturing Process 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 Manufacturing Process Engineer to oversee the development of our key assembly processes within our automated manufacturing lines.

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:

The Manufacturing Engineer will lead the development key processes used to assemble our concentrated PV solar module. This includes conducting experiments to determine the optimal process parameters, working in collaboration with design engineers and automation engineers to define manufacturing tooling and assembly equipment and ensuring the consistent build quality of our assemblies.

In addition, this person will oversee documentation of our processes in compliance with ISO 9000 and six sigma manufacturing principles. This includes transfer of relevant design and production techniques and know-how to external suppliers and contract manufacturers.

The Manufacturing Engineer's key contributions are expected to be:

- Continually decreasing part count, assembly labor and product cost.
 - Continually simplifying and accelerating manufacturing process, while maintaining/increasing yield.
 - Maintaining/increasing reliability and durability of end-product.
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Key Position Accountabilities

(Either directly or through leadership of other team members)

- **Design for Manufacturability**
Responsible for assuring our products are designed for manufacturability and high volume automation; will work closely with design engineers and automation engineers to make design tradeoffs to assure design for manufacturability.
 - **Process Development**
This position is responsible for developing and documenting robust processes that can repeatedly be performed in very high volumes, with minimal total defects in accordance with six sigma manufacturing principles.
 - **Production Line Design**
Manufacturing Engineer will work closely with automation engineers to optimize the process for automation resulting in cost-effective production that meets both throughput and quality requirements.
 - **Quality Assurance**
Responsible for collaborating with the company's engineering and R&D department to design appropriate production QA procedures, metrics, and test jigs and ensure total defects are minimized to six sigma standards.
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Professional Requirements:

- Minimum of 5 years in design and scale-up of high volume manufacturing of products involving both mechanical and electrical subsystems with annual volume exceeding 10,000 units (ideally products requiring UL and/or CE approval).
- Experience in transferring products from R&D and prototype to automated production lines.
- Must have experience with a variety of production processes, such as adhesive assembly, highly automated mechanical assembly, assembly of optical system, laser welding or automated soldering and robotic mechanical assembly.
- Must have extensive experience with materials such as plastics, sheet metal, glass, and some experience with electronic circuitry and power electronics assembly methods.

- Understanding of ISO 9000 work instruction and documentation requirements
- Thorough understanding of six sigma manufacturing principles
- Excellent written/verbal communication skills and teambuilding skills.
- Bachelors Degree in Manufacturing, Mechanical or Electrical Engineering.
- Highly detail-oriented, organized, and persistent.
- Fluency and experience with other languages and cultures appreciated.

INTERESTED CANDIDATES SHOULD SUBMIT THEIR RESUMES TO:
careers@energyinnovations.com.

Energy Innovations is an Equal Opportunity Employer