



Job Title

Controls Engineer

Job Type

Full Time, Non-Exempt

Location

Thornton, Colorado

Travel

Occasional travel may be required

Pay

\$60,000 - \$75,000 annually

Benefits

We offer a dynamic, team-oriented work environment with a competitive benefits package including medical, dental, vision, life, STD, LTD and a generous 401(k) match.

Company Overview

Ascent Solar Technologies (OTCMKTS: ASTI) is a developer and manufacturer of state of the art, thin-film flexible photovoltaic products. We are looking for a highly motivated, goal oriented, hands-on Product Development Engineer to join us in improving the current product line and creating the next generation of photovoltaic products. If this type of organization appeals to you, and you have the required qualifications, we want to hear from you!

Responsibilities

- Develop and implement new equipment or modification of existing equipment to support high volume manufacturing of thin film photovoltaic (PV) roll-to-roll modules.
- Interface and provide technical direction to OEM for compliance to technical specification of automated equipment.
- Responsible to support new tool procurement and installation of new tools or modifications to existing equipment.
- Develop new equipment by building in-house prototypes to prove concepts and improve existing equipment by designing modifications together with external vendors.
- Works on developing and implementing control systems for tools and/or equipment.



- Improve the repeatability and reliability of the equipment by constantly studying and evaluating the equipment performance and its process capability.
- Key player in the identification, resolution, and implementation of preventative measures for complex tool problems, which may involve refit or redesign of major components or sub-assemblies.
- Provide technical support to production and maintenance teams for equipment repairs.
- Coordinate facility planning and support installation of new tools/equipment.
- Works closely on a cross-functional basis with manufacturing operations, process engineering, procurement and EHS to design, install and qualify tooling or control upgrades for continuous improvement.
- Ensure adherence to all Environmental, Health and Safety (EHS) procedures.
- Use proven problem solving skills to perform ongoing analysis to improve the current process and tool conditions.
- Ensure validation of test results by troubleshooting and eliminating down time on process tools.
- Work independently as well as in a team environment .
- Support the handling of hazardous waste material in accordance to federal, state and local regulations; individual will be trained (upon hire and annually) for the requirements of safe handling and proper disposal of any material deemed to be hazardous and the proper use of PPE for this activity.

Essential Skills

- Must be a US Citizen or Permanent Resident.
- Bachelor's degree in Electrical Engineering or related discipline.
- Five to seven years of experience in developing, building, and implementing new complex equipment or modification of existing equipment.
- Capable of designing and debugging Control Panels (Low Voltage and High Voltage Panels.)
- Knowledge of PLC based Systems and Architecture (Hardware.)
- Knowledge of Siemens PLC, Omron PLC, Mistubishi PLC and Allen Bradley PLC Programming Language.
- Knowledge of Visual Basic Programming and a Multitasking architecture based programming a plus.
- Knowledge and understanding of VFD and Servo Motors.



- Demonstrated ability to lead the design, development and integration of integrated controls.
- Knowledge of vacuum, mechanical, electrical, pneumatic and hydraulic systems preferred.
- Good communication skills with all different levels of an organization.
- Demonstrated ability in project and vendor management, managing multiple priorities, and working within time constraints.
- Proven problem-solving skills applied while identifying root causes and implementing process improvements.
- Strong computer skills in MS Word, MS Excel, and PowerPoint.
- Knowledge of statistical tools, as well as basic statistics, DOE, SPC, JMP experience a plus.
- Proficiency in data mining and data analysis, a plus.
- Experience in solar industry, a plus.

Ascent Solar is an equal opportunity employer with a solid commitment to diversity and a passion for creating an inclusive and equitable workplace for all employees.