

Job Title:	Manufacturing Engineer
Position Status:	Full-Time
Department:	Production
Supervision Received:	Maintenance and Engineering Manager
Supervision Exercised:	N/A
Location:	Mountain Iron, Minnesota

PRIMARY FUNCTIONS

A.	Equipment and Process Improvement	50%
B.	Lean Six Sigma	20%
C.	Preventative Maintenance	20%
D.	Other duties as assigned	10%
TOTAL		100%

The manufacturing engineer will play a pivotal role in the production process of our solar panels. Their primary responsibility is to design, develop, and optimize manufacturing processes and systems to ensure efficiency, quality, and cost-effectiveness. The Manufacturing engineers work closely with cross-functional teams, including design engineers, production operators, and quality control specialists, to create and improve production methods.

RESPONSIBILITIES

A. Equipment and Process Improvement (50%)

- To improve equipment or to devise a process for manufacturing products
- To improve equipment and processes for large-scale manufacturing, planning, and testing methods of manufacturing solar modules
- Creation and modification of electrical or mechanical drawings for the manufacturing line
- Implementation and modification of production line equipment
- Troubleshooting equipment
- Support to install/keep new Solar Production line running (communication with Line Vendor and Building Contractor)
- Achieve quality and production requirements in a safe and cost-effective manner

B. Lean Six Sigma (20%)

- Implement Lean-Six Sigma tools within the manufacturing line
- Carry out process improvement projects within the manufacturing line
- Support R&D Team for product and process improvement

C. Preventative Maintenance (20%)

- Automation equipment within the manufacturing line (PLCs, drives, robots, HMIs)
- Support maintenance, production, quality, and other teams when required
- Assess problems within the manufacturing line and provide solutions to optimize equipment uptime in a fast-paced environment

D. Other Duties as Assigned (10%)

- Perform other duties as assigned by Maintenance and Engineering Manager or delegate.

Minimum Qualifications:

Bachelor of Science degree in Electrical, Chemical or Mechanical Engineering with proven experience record in the automation industry or MS in Electrical, Chemical or Mechanical Engineering with no experience

- At least 2-5 years of automation experience, preferably within a high-growth, global, entrepreneurial environment
- Experience with PLCs
- Experience with Install New Production Line (preferably Solar Line)
- Experience with automation components such as robots, drives, sensors, and HMIs
- Experience in working with ERP software is considered an asset
- Experience working in a project environment considered an asset
- Experience with CAD (DraftSight, Autodesk, Solid Works) software
- Knowledge of GD&T Geometric Dimensions and Tolerance
- Proven ability to identify existing opportunities, foresee upcoming challenges and effectively react
- Ability to analyze, organize, prioritize, and manage multiple projects
- Experience with Microsoft Office Excel, Word, Outlook, and PowerPoint
- Ability to take direction and work independently
- Self-motivated