



## First Solar Job Description

**Job Title:** Manufacturing Engineer I, (various segments)

**Reports To:** Manager, Manufacturing Engineering (segment)

**Job Status:** Exempt

### Basic Job Functions:

Install and qualify new process equipment. Troubleshoot day-to-day manufacturing issues on the production line in a timely manner. These include; tool down issues, yield, quality issues and identify actions to prevent repeat issues. Identify and/or implement system improvements that contribute to the achievement of throughput, yield and product performance goals.

### Education and Experience:

- Associate's Degree in an engineering or similar technical discipline combined with either 3 years of First Solar technical experience, or at least 6 years technical work experience in a Manufacturing setting
- Bachelor's Degree, Master's Degree, or PhD in an engineering or similar technical discipline with no experience required. Technical work experience in combination with a degree is preferred

### Required Skills:

- Understands and can apply Statistical Data Analysis
- Good problem solving skills
- Understands metrology and measurement best practices
- Good oral and written communications skills.
- Ability to write manufacturing documentation

### Desired Skills:

- Understands and can apply DOE
- Understands and can apply Statistical Process Control (SPC)
- Understands and can apply structured problem solving (such as DMAIC)
- Ability to work with minimal supervision.
- General Electrical / Electronics
- General Mechanical
- Previous experience in one or more of the following process areas: Vacuum Deposition/ Thermal/ Laser/ Wetline/ Automation/ Adhesive/ Welding/ Material Handling/ Robotics/ Vision Systems/ PLC Programming among others

### Essential Responsibilities:

- Responsible for solving day-to-day production, equipment, and process problems
- Install and Qualify new equipment
- Maintain Gauges
- Design and execute planned process experiments, collect and analyze data and report experimental results.
- Perform data collection relating to daily equipment performance and associated product performance.

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- Interface with internal associates and supplier representatives as required to complete assigned projects
- Maintain effective communication with production associates and manufacturing engineers
- Develop and provide training to engineering technicians, and production associates
- Identify and implement yield and product performance improvements
- Develop and maintain drawings, process specifications, develop and enforce standard operating procedures
- Develop and maintain process control plans
- Adhere to all safety procedures and good housekeeping standards

#### **Reporting Relationships:**

- This position could have direct reports

#### **Travel:**

- Domestic and International travel as required

#### **US Physical Requirements:**

- Will sit, stand or walk short distances for up to the entire duration of a shift
- Will climb stairs on an occasional basis
- Will lift, push or pull up to 27 pounds on an occasional basis
- Required to use hands to grasp, lift, handle, carry or feel objects on a frequent basis
- 20/40 vision in each eye, with or without correction, is required
- Must be able to comply with all safety standards and procedures
- May reach above shoulder heights and below the waist on a frequent basis
- May stoop, kneel, or bend, on an occasional basis
- Ability to wear personal protective equipment is required (including but not limited to; steel toed shoes, gloves, safety glasses, hearing protection, protective jacket or apron and arm guards)
- All associates working on the production floor may be required to wear a respirator at any given time and thus, the ability to wear a respirator is a condition of employment and continued employment (requires little or no facial hair)

*Potential candidates will meet the education and experience requirements provided on the above job description and excel in completing the listed responsibilities for this role. All candidates receiving an offer of employment must successfully complete a background check and any other tests that may be required.*

*Equal Opportunity Employer Statement: First Solar is an Equal Opportunity Employer that values and respects the importance of a diverse and inclusive workforce. It is the policy of the company to recruit, hire, train and promote persons in all job titles without regard to race, color, religion, sex, age, national origin, veteran status, disability, sexual orientation, or gender identity. We recognize that diversity and inclusion is a driving force in the success of our company.*