

Process Development Group: Metallization Engineer - (PE2)

- DESCRIPTION:**
- Responsible for developing novel solar cell metallization approaches by utilizing state-of-the-art, off-the-shelf, production capable, printing equipment.
 - Responsible for implementing and scaling up existing as well as new metallization processes for advanced solar cell thin film manufacturing.
 - Responsible for qualifying the metallization process (by implementing statistical process control) and transferring the SOP's to manufacturing.
 - Responsible for set-up, operation, re-engineering, and maintenance of printing equipment. Maintain tool uptime and throughput. Perform standard metrology inspection tools to support process optimization.
 - Have good basic understanding of paste/ink formulation chemistries. Establish specification and qualification of incoming inks/pastes. Specify printing processing conditions to deliver best electrical performance.
 - Work closely with Cell Development Group to enable high performance PV Cells. Work with vendor to troubleshoot equipment issues.
- LEVEL:** Engineer/Senior Engineer
- QUALIFICATIONS:**
- Bachelor or higher degree in a technical discipline (e.g. engineering)
 - Must have at least 5 years of industrial experience and training in printing discipline such as inkjet printing, screen printing or pad printing.
 - Must have familiarity with handling, printing and processing of electronic materials such as inks or pastes.
 - Strong mechanical aptitude and ability to modify, operate, and maintain sophisticated equipment. Must have a basic understanding of conduction mechanisms and charge transport.
 - Expertise in industrial statistical tools such as statistical process control, quality control protocols such as six sigma, etc.; experience with process simulation tools.
 - Experience in a project-oriented environment.
 - Excellent communication skills, written and verbal, required.
 - Must demonstrate initiative, be detail-oriented and have strong follow-up skills.
 - Must display positive attitude and ability to quickly react to changing business demands, aggressive deadlines, and demanding hours in a fast paced environment.
 - Must have very good teamwork/interpersonal skills and proven ability to effectively train others.
 - Some travel may be required.
- RELOCATION:** Competitive relocation packages are offered for highly qualified candidates