



**Position Title:** Senior MBE Equipment Engineer or Technician

**Location:** Tempe, AZ

**Position Description:** The primary responsibilities of this position include equipment maintenance and support of MBE epitaxial material growth reactors, maximizing uptime of these critical equipment used in the production of advanced semiconductor devices for solar cells, photonics and other applications.

**Responsibilities:**

- Maximize uptime of the MBE reactors via direct support, maintenance, continuous improvement, spares parts procurement, and supply chain development activities
- Play key role in planning and executing scheduled preventive maintenance on MBE reactors and ancillary equipment and infrastructure. Work with other members of the maintenance team to carry out maintenance on MBE reactors.
- Develop and implement methods to minimize downtime during MBE maintenance
- Work with epitaxy engineers, facility managers, original equipment suppliers, and outside resources to perform troubleshooting and repair of reactor malfunctions
- Procure and ensure adequate inventory of spare-parts, accessories and consumables for MBE reactors and their ancillary equipment to minimize downtime and ensure the preventive maintenance can be carried out timely and safely.
- Contribute to the preparation, review, and release of documentations for the repair, and maintenance of MBE reactors and associated facility infrastructure
- Participate in activities of new capacity planning and deployment, continuous improvement in reactor hardware, reactor utilization, training, facilities
- Closely apply safety practices when handling chemicals and dealing with source materials and gases
- Communicate and work collaboratively within the epitaxy team and across the company
- Support of MOCVD equipment team as needed

**Requirements:**

- Engineering or AS degree
- At least 10 years of hands-on experience with MBE equipment maintenance and repair
- Hands-on experience with VEECO GEN200 and GEN2000 MBE systems
- Experience working with hazardous gases and chemicals, including Arsine, Phosphine. SCBA certification highly desired
- Experience working in a leading equipment engineering role in a high-volume epitaxy production environment
- Hands-on experience working in vacuum technology, including UHV, Cryo pumps, Dry pumps, Turbo Molecular pumps, diffusion pumps, pressure measurement and control, helium leak checking, and RGA
- Strong equipment troubleshooting and problem solving experience
- Experience in CAD design and modelling (such as with SolidWorks or AutoCAD) highly preferred
- Proven track record of adherence to and enforcement of maintenance and safety procedures and protocols



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- Knowledgeable in safety and regulation, including OSHA regulations, Hazardous materials handling, transport, storage, Site policy adherence
- Highly-motivated to learn and apply new concepts quickly and ask analytical questions
- Strong attention to detail and belief in continued improvement
- The ability to communicate well and frequently in a team environment
- The ability to prioritize and work on multiple tasks at once
- Self-motivated and willing to work in small, dynamic environment
- Willing to travel occasionally between company's locations and location of its overseas partner

If interested, please send your CV/resume to [jobs@sj-solar.com](mailto:jobs@sj-solar.com) with "Senior MBE Equipment Engineer or Technician" in the subject line.