



The Company: Solar Junction is privately funded and produces the world's most efficient solar cell.

Location: Phoenix, Arizona

Position Title: Senior MOCVD Equipment Technician/Engineer

Position Description: The Senior Equipment Technician's primary responsibilities include equipment maintenance and support of Veeco As/P MOCVD epi reactor and if possible an Aixtron MOCVD reactors, maintaining the facility infrastructure supporting those epitaxial growth reactors, and maintaining other equipment used in the production of advanced semiconductor devices for solar cells and other applications. This position is part of the equipment and facilities maintenance group of Solar Junction Facilities in Arizona and will support both the engineering and production activities.

- Responsibilities:**
- Maximize uptime of the MOCVD reactors via direct support, maintenance, continuous improvement, spares parts procurement, and supply chain interface activities
 - Play key role in planning and executing scheduled preventive maintenance on MOCVD reactors and ancillary equipment and infrastructure. Work with other members of the maintenance team to carry out maintenance on MOCVD reactors.
 - Capture all data participating to the MES production control indicators including SPC.
 - Accountable for the KPIs related to the production activities of the epitaxy tools including uptime, MTBF, MTTR , MTBF, etc...
 - Work with epitaxy engineers (Production and R&D) and original equipment manufacturers, and outside resources to perform troubleshooting and repair of reactor malfunctions
 - Procure and ensure adequate inventory of spare-parts, accessories and consumables for MOCVD 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, maintenance, and operations of MOCVD reactors and associated facility infrastructure
 - Participate in activities of new capacity planning and deployment, continuous improvement in reactor hardware, procedures, protocols, utilization, training, facilities, and equipment and process monitoring
 - Communicate and work collaboratively within the epitaxy team and across the company
 - Closely apply and champion safety practices when handling chemicals and dealing with all source materials and gases

- Requirements:**
- AS degree in Electrical Engineering, Mechanical Engineering, or relevant related field
 - At least 10 years of hands-on experience with equipment maintenance and repair of Veeco and Aixtron MOCVD equipment
 - Experience working with hazardous gases and chemicals, including Arsine, Phosphine. SCBA certification highly desired
 - 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 working in a cleanroom environment
 - Experience in CAD design and modelling (such as with SolidWorks or AutoCAD) highly preferred



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- General knowledge and experience of facilities and building infrastructure for clean room/fab sites, including HVAC, gas delivery systems, exhaust and abatement systems, and subcontractors supervising
- Proven track record of adherence to and enforcement of maintenance and safety procedures and protocols
- 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
- Ability to use MS Office (PowerPoint, Excel, Word)
- Self-motivated and willing to work in small, dynamic environment