**Job Description—Electro-Mechanical Technician**

**Reports to:** Engineering Design Manager

**Location:** San Diego, CA

**Date:** August 2022

**Position Summary:**

The position of Electro-Mechanical Technician requires the ability to perform electrical and mechanical assembly. Furthermore, they must be able to perform functional testing to confirm that assembly was done correctly. Must have excellent interpersonal and communication skills to work effectively in a strong team-oriented environment. A focus on quality, safety and attention-to-detail is a strong must.

**Job Responsibilities:**

* Assemble prototypes or applicable sub-systems under development.
* Assist in defining and updating build work instructions and functional test procedures.
* Conduct functional test as per established procedures on all applicable products prior to shipment.
* Collect data and write reports concerning these tests.
* Assist in the transfer of prototypes to operations, including pilot builds and test fixture design assembly.
* Use of common metal and plastic tube fittings and seals (compression, face seal etc.)
* Participate in the process of entering, collecting, and reviewing safety and quality data.
* Participate/assist in the repair of a prototype/production systems.
* Diagnosis and repair of units returned as a result of field failures.
* Build cable harnesses using wire strippers, crimpers, and other hand tools
* Interpret electrical schematics including digital and analog circuits
* Troubleshoot circuit boards to component level
* Soldering of fine pitch surface-mount electronic components
* Maintain all applicable safety, cleanliness and housekeeping standards.
* Safety and emergency response training

**Job Requirements:**

* Requires High School Diploma with 3+ years of hands-on manufacturing or engineering experience focused on electrical or high purity material handling systems in an ISO certified manufacturing environment. (Equivalent military experience may be substituted for industry experience).
* Ability to construct mechanical and electrical assemblies.
* Experiences in the electrical and mechanical tooling required.
* Good working knowledge of DC power supplies, DVM, Thermocouple Simulator/Thermometer, and Analog/Digital Gauges.
* Experience and understanding of working in clean environment at high purity PPB and lower levels.
* Ability to read and understand Safety Data Sheets.
* Computer skills involving the use of data loggers and Microsoft Office.
* Previous experience with fittings commonly used in the semiconductor manufacturing industry is a plus.
* Excellent interpersonal, written and verbal communication skills.
* Ability to function effectively in a dynamic environment with changing priorities.
* Self-motivated and focused.
* Demonstrate a high degree of safe work performance.
* Must be able to set and adjust priorities appropriately and timely.
* Good troubleshooting skills.
* Ability to understand and interpret typical engineering documents such as P&ID, electrical board schematics and assembly drawings.
* Must understand and perform basic calculations.
* Ability to lift approximately 35 pounds.
* U.S. Citizen or U.S. Permanent Resident status required.