Reno Subsystems
https://renosubsystems.com/

POSITION TITLE: Mechanical Engineer

POSITION LOCATION: Sparks, NV

POSITION DESCRIPTION:
Reno Subsystems is looking for a highly-motivated and capable Mechanical Engineer to lead development of flow calibration facilities and data processing software for Flow control products. Reno Subsystems is a semiconductor industry startup company. The company’s disruptive technologies in both Flow Delivery and RF are gaining traction on both fronts. The company’s products can accurately and repeatedly measure and control small Micro Flows for applications in the semiconductor processing equipment. This capability is unique and more advanced than any other competitive product in the market. Duties for the position include, but are not limited to:

- Developing a world class flow calibration facility utilizing the Rate of Rise (ROR) method for calibration of flow devices with various gases used in semiconductor manufacturing
- Utilizing sensors, valves, flow elements, cabling, instrumentation, and mechanical designs in the development of the flow measuring system
- Developing capabilities for installation and use of various semiconductor gases in the facility
- Developing data post processing algorithms in Excel/VBA that post process calibration data and performing a variety of calculations and output formats
- Developing data collection and testing control algorithms using Labview to support lab work, as well as Rate of Rise data collection
- Preparing and conducting design reviews with other engineering team members
- Supporting R&D to discover and productize new and innovating gas delivery and Flow products
- Working with suppliers and labs to fabricate component and developing processes
- Developing and maintaining specification compliance matrixes; performing design verification and validation testing of new designs
- Developing, maintaining, and enhancing department safety policies and procedures

REQUIRED QUALIFICATIONS:

- BS in Mechanical Engineering
- 3+ years of experience in mechanical design related to flow, heat transfer, or thermodynamics
- Experience in mechanical design development aspects including/related to algorithm development, data processing, and mathematical modeling; applying First Principals to design; detail-oriented design development; and overseeing design/drawing/documentation development
- Familiar with Excel/VBA, Labview, and general coding languages and practices
- Hands-on experience working with lab equipment including general lab instrumentation and pressure transducers and calibration equipment
- Solid understanding of fluids or ability to learn in quickly
- Hands-on experience with electro-mech issues
- Strong problem solving and troubleshooting skills
• Proficiency in technical report writing
• Familiarity with SolidWorks modeling, drawing generation, and CAD databases
• Positive, professional attitude with ability to follow policies and cleanroom protocols and interact within cross-functional teams in a fast-paced environment with changing priorities

DESIRED QUALIFICATIONS:
• MS or PhD in Engineering
• 3+ years of experience in Semi-Conductor Industry
• Design for Robustness Methods or Six Sigma (DFSS)
• Track record of innovative product development (patents, etc.)
• Experience in technical/practical aspects including/related to semiconductor gas properties and calibration, gas flow metrology and calibration equipment, Rate of Rise (ROR) utilization for gas flow measurements, and Flow controllers, vacuum gages, and pressure transducers
• Military experience is a plus

HOW TO APPLY:
Interested applicants should send in resumes and cover letters to spenley@renosubsystems.com.