



Position: Senior Research and Development Machinist
Department: Engineering
Reports to: Chief Technology Officer

Description:

The Senior Research and Development Machinist is a highly specialized position within IND that reports directly to the Chief Technology Officer. In this role, the engineer will perform work that can range from narrowly defined parameters and limited judgment, up to highly complex and non-standard assignments with broadly defined parameters. A high degree of judgment and initiative is required.

IND utilizes cutting edge technology that requires customer procedures that are extremely technical in nature. To that end, the job requirements of this position include component stripping, component cleaning down to the molecular level, investigation of defects, refurbishment of components, machining, welding, reassembly of components in an Ultraclean environment, among others.

In addition, this role will require national and international travel for periods of up to 3 weeks at a time.

Responsibilities:

- Process parts using a combination of cleaning techniques, including but not limited to: advanced mechanical cleaning, selective chemical cleaning, advanced surface finishing, and advanced thermal spray.
- Critical cleaning of parts utilizing ultrasonic tanks, vacuum ovens, and other specialized equipment in a cleanroom environment.
- Root-Cause analysis of parts and assemblies as it relates to weld failure, material defect analysis, stress gauging, and residual stress measurement.
- Documentation of work using existing software.
- Fabrication of hardware and test machines aiding in the development of prototypes.
- Troubleshooting and modification of assemblies to achieve desired results.
- Critical inspection of welds.
- Preparation and development of drawings, designs, and specifications.
- Demonstrate responsibility and accountability.
- Assist with additional tasks as assigned by management.

Required Qualifications:

- Minimum of a high school diploma or GED certificate and (10+) years of experience.
- Must be a US citizen or legally permitted to work in the US and be able to speak, read, and write English.
- Must maintain a valid passport.
- Knowledge of the practical application of engineering science and technology. This includes applying principles, techniques, procedures, and equipment to the design and production of various goods and services.



- Ability to design, conduct, monitor, analyze, and record test results.
- Ability to perform essential quality control inspections using specialized equipment including magnifiers, LED lights, calipers, micrometers, electronic equipment, and others.
- Expert level welding experience including endorsements or equivalent.
- Advanced understanding of Material Science including material property characteristics, surface preparation, and finishing techniques.
- Advanced understanding of material testing including strain gauging and residual stress measurement.
- Valid certification in residual stress measurement by means of the air abrasive method.
- Advanced understanding of thermal spray techniques.
- Knowledge of arithmetic, algebra, geometry, calculus, statistics, and their applications.
- Advanced understanding of hand and power tools.
- Advanced understanding of hardware (screws and bolts).
- Advanced understanding of electrical, mechanical, and plumbing theory along with practical experience.
- Advanced level of troubleshooting down to root cause.

IND, LLC is an equal opportunity employer: all job descriptions are made on the basis of qualifications, and without regard to race, sex, religion, national or ethnic origin, disability, age, veteran status, or sexual orientation.