



Job Title: Senior Metrology Technician/Engineer (Metrology Specialist)

Position Overview:

The Senior Metrology Technician/Engineer will oversee, operate, and maintain metrology equipment and the metrology lab to ensure optimal operation, calibration, and compliance with industry standards. This role involves documenting measurements, supporting the development and implementation of quality assurance processes, and providing expertise in measurement systems, CMM programming, and quality documentation. The ideal candidate will have significant experience in quality engineering, particularly in the automotive industry, with expertise in inspection systems, CMM operations, and calibration.

Key Responsibilities:

- **Metrology Lab Operations:**
 - Operate and maintain metrology equipment to measure raw materials, incoming materials, and finished products to ensure dimensional accuracy and compliance with specifications.
- **CMM Programming & Operation:**
 - Program and operate the Coordinate Measuring Machine (CMM) to verify part dimensions and ensure parts meet quality specifications.
- **Visual Inspections:**
 - Perform visual inspections on parts and products to identify defects or non-conformities that could affect quality or performance.
- **Test Reports Review:**
 - Review and analyze test reports such as magnetic particle reports, hardness tests, and chemical analysis, ensuring that results align with the required specifications.
- **Procedures & Documentation Control:**
 - Create and maintain quality procedures and work instructions while ensuring proper document control and revision history.
- **Calibration:**
 - Regularly calibrate metrology equipment and measurement tools to ensure accuracy and compliance with required tolerances and specifications.
- **Continuous Improvement:**
 - Support and actively contribute to continuous improvement initiatives in quality processes, offering feedback based on inspection results and testing.
- **Product Development & Control Plans:**
 - Participate in the development of control plans and PFMEA documentation, ensuring quality standards are met throughout the product lifecycle.
- **New Product Launch & PPAP Support:**
 - Play an integral role in new product launches, including supporting Production Part Approval Process (PPAP) activities.
- **Internal Audits:**
 - Assist the internal audit team, providing expertise in compliance with quality standards and continuous improvement processes.
- **Quality Assurance Reports:**

- Prepare and write detailed quality assurance reports, addressing manufacturing issues, corrective actions, and preventative measures.
- **Cross-Departmental Collaboration:**
 - Work closely with cross-functional teams including QA, Engineering, and Production to ensure seamless quality control throughout manufacturing operations.

Required Qualifications:

- **Education:**
 - Bachelor's degree in Mechanical Engineering, Industrial Engineering, or a related field (or equivalent work experience).
- **Experience:**
 - Minimum of 10 years of experience in quality engineering, particularly within an automotive manufacturing or machine shop environment.
- **CMM Expertise:**
 - At least 10 years of experience with CMM programming and measurement, with a preference for experience using Mitutoyo CMM equipment.
- **Technical Skills:**
 - Expertise in Geometric Dimensioning and Tolerancing (GD&T) and blueprint reading.
 - Strong knowledge of inspection tools and methods (micrometers, calipers, CMM).
 - Proficiency in MS Office (Excel, Word) and quality analysis software.
- **Quality Standards:**
 - Familiarity with industry standards such as ASME Y14.5, IATF 16949, ISO 9001, and automotive-specific quality requirements.
- **Problem Solving:**
 - Strong analytical and problem-solving skills, with the ability to conduct root cause analysis and implement corrective actions.
- **Communication:**
 - Excellent communication and interpersonal skills, able to collaborate effectively with various departments and stakeholders.

Preferred Qualifications:

- **Automotive Experience:**
 - Experience working with Tier 1 automotive suppliers or similar high-volume precision manufacturing environments.
- **Quality Management Systems:**
 - Experience with IATF16949, APQP, FMEA, PPAP, and control plans.

Work Environment:

- **Physical Environment:**
 - The role involves frequent communication with team members, supervisors, and management.
 - The environment can be fast-paced with frequent distractions, interruptions, and multiple demands.
 - The workspace will be noisy at times, with required use of personal protective equipment (PPE) for health and safety.
- **Location:**
 - Work is conducted both in the office and on the plant floor.

- **Overtime:**
 - Overtime may be required to meet business needs.

Health & Safety:

- Adhere to Health and Safety regulations, including wearing the appropriate PPE at all times.
- Comply with company and plant policies, including but not limited to quality, environmental, and human resources procedures and the employee handbook.

Compensation & Benefits:

- **Salary:**
 - \$70,000 - \$90,000 per year (dependent on experience).
- **Benefits:**
 - Medical, Dental, and Vision Insurance.
 - Safety shoe and prescription safety glasses reimbursement.
 - Tuition reimbursement and opportunities for professional development and training.
- **Job Type:**
 - Full-time, Permanent.

Company Overview:

We leverage advanced, niche technology to provide high-quality, mid-to-high-volume precision machined aluminum products to powersport and automotive customers. As a growing company, we are committed to maintaining a mature IATF16949 quality system and working closely with our global partners to meet the evolving needs of the automotive industry.