

CNC Machine Tool Tech – Laser Alignment / Calibration

Principal Responsibilities

The following list of responsibilities describes the functions performed by a person in this position.

- Align geometries, calibrate linear and rotary axes, and compensate CNC machine tools using a variety of metrology tools such as a laser interferometer and ballbar.
- Measure, analyze, and document the machine performance characteristics that include volumetric accuracy, linear and rotational accuracy, straightness, pitch, and yaw.
- Perform predictive maintenance, machine tool diagnostics, and compensate for error in CNC controls.
- Provide services to maintain, analyze, diagnose, troubleshoot, and repair mechanical components on CNC machine tools and accessories.
- Program CNC controls to perform calibration and diagnostic routines.
- Provide key support services for machine installation, repair, retrofit, and system upgrade projects
- Assist with machine installation, repair, retrofit, and system upgrades.
- Communicate action plans and timelines to customers and team members
- Maintain a safe work environment
- Perform and document work in accordance with company administrative and operational procedures.
- Engage in company and team efforts to improve business and operational practices.

Essential Qualifications and Skills

Ideal candidates will be able to demonstrate that they possess the following skills and qualifications essential for this position.

- Vocational, associates, or bachelors degree (or equivalent experience) in machine tool mechanics, mechanical engineering, CNC Operations, metrology, or a related field. .
- 3-5 years experience with CNC equipment and controls
- 2-3 years of CNC laser calibration and alignment experience.
- Experience with a variety of CNC controls including Fanuc and Siemens
- Able to read and understand parts manuals, assembly instructions, trouble shooting guides, and mechanical blueprints.
- Able to work and communicate effectively with team members, machine manufacturers, and customers on technical issues.
- Strong customer service and interpersonal communication skills
- Proven ability to work with minimal supervision and be proactive
- Sound written and verbal communications skills.

Preferred Qualifications and Skills:

The following skills and qualifications are preferred to satisfy the requirements of this position.

- Experience with Renishaw laser interferometer and ballbar systems.
- Experience with Hamar TripleScan Laser systems
- Experience with Laser trackers
- Knowledgeable in CNC controls including Fanuc and Siemens.
- Good understanding of manufacturing processes
- Experience using power, pneumatic, hydraulic, and hand tools

Work Environment, Physical Demands, and General Expectations

Work Environment

Shop environment with exposure to power machinery, heights, high temperature, low and high-pressurized equipment, high noise levels, moving components, grease, dirt and sharp objects. Work 40 - 60 hours per week. Shifts and workdays determined by company needs. Most hours worked from 7-3:30 Monday – Friday, with some weekend and after-hours work. Some travel (25%-50%) required.

Physical Demands

Numerous times daily, position requires standing, walking, climbing, bending, stooping, crawling, and lifting of 30 - 50 pounds.

General Expectations

This job description is a general description of essential job functions. It is not intended as an employment contract, nor is it intended to describe all duties someone in this position might perform. All employees are expected to perform tasks as assigned by management, regardless of job title or routine job duties.