

## **ASPECT AUTOMATION Position Description**

**Position Title:** Machinist  
**Department:** Operations  
**Reports To:** Mechanical Assembly Shop Lead

### **Primary Objective of Position**

Sets up and operates a wide range of machine tools and performs progressive machining operations on work involving very close tolerances or unusual requirements while working under minimal direction.

### **Essential Job Duties and Responsibilities**

1. Plans or verifies operation to be performed and material to be used on each job as directed by documentation, manufacturing engineering, or supervision.
2. Works with engineering to help with part design and ease of manufacturing.
3. Sets up all equipment with appropriate stops, clamps, fixtures, and tooling.
  - a. Determines appropriate dimensions according to specifications and calculates proper feeds and speeds.
  - b. Selects proper tooling and mounts fixtures and parts.
4. Operates machines and produces parts; typically works on more complex parts which require the highest skill level and knowledge of all machining operations.
  - a. Monitors run to ensure parts are being produced to specification.
  - b. Evaluates and assists in improving the manufacturing process.
  - c. Changes tools as needed.
5. Uses measuring devices and blueprints/engineering documents to inspect parts per print specifications.
  - a. Visually inspect surface for appearance and non-conformities.
  - b. Communicates all non-conformities to the appropriate personnel.
6. Completes required documentation and reports at completion of the job.
7. Fits and assembles parts into complete assembly when required.
8. Participates effectively as a member of a team.
9. Provides guidance or training for others as required, provides input into resolution of machining and assembly problems.
10. Maintains a safe and clean work area.

11. Maintains equipment and orders tooling as needed.
12. Prompt, regular attendance.
13. Other related duties and responsibilities as assigned.

### **Essential Qualifications**

- Related two-year degree and at least two years of relevant machining experience or, without the degree, at least six years of relevant machining experience.
- Ability to read and interpret engineering drawings and specifications.
- Proficient in the use of machinist hand tools and measuring instruments.
- Experience with a wide range of machining processes, safety factors, and cutting tool theory, including but not limited to milling, turning, grinding, process planning, and inspection.
- Proficient in machine shop applications of geometry, algebra, and trigonometry.
- Possesses the written, verbal, and interaction skills necessary to work both independently and cooperatively.

### **Desirable Qualifications**

- Through experience, possesses the skills to program machine controls; Bridgeport EZ-Trak experience is a plus.
- Working knowledge of computers. Ability to format and produce word processing and/or spreadsheet documents.
- Previous experience with SolidWorks or solid modeling software.
- Demonstrated experience in the assembly of precision machined parts.
- Through experience, possesses the skills to work in a team environment.

### **Physical, Mental, and Environmental Requirements**

- Strength, agility, and movement: work involves frequent lifting, pushing, pulling, reaching, and handling of materials and parts, from racks, pallets, or baskets. Occasionally climbs on the machines to reach areas requiring cleaning, maintenance, and adjustment. Travel within the facility is frequent.
- Level of exertion: work ranges between medium and heavy consisting of occasional exertion and of up to 50 pounds of force and movement of up to 20 pounds frequently. Work requires repetitive hand motions and frequent grasping of tools and materials.
- Sensory ability: good vision is required, particularly near vision for inspection of tooling, components, and reading measuring devices. Field of vision needs to be sufficient to work safely around machines. Depth perception and hand-eye

coordination need to be sufficient for tool insertion, machine setup, and computer operation. Good hearing is required to monitor machine sounds. Ability to feel part finish.

- Communications: verbal and written communication with customers and employees is required.
- Reading: ability to read and interpret instructions, blueprints, engineering drawings, and specification sheets is required.
- Writing: writing skills at a level consistent with preparing documentation and signing off on work performed is required.
- Verbal skills: verbal communication needs to be at a level consistent with providing explanations on technical matters such as when instructing others in the operation of a machine.
- Reasoning ability: reasoning ability needs to be at a level consistent with solving apparent problems through probing or research for precise identification. Solutions are based on standard operating procedures or well-established precedent.
- Eye protection is required at all times.
- Exposure to moving parts, equipment, cutting oils, and coolants.
- Occasional exposure to loud noise requiring hearing protection.
- Occasional exposure to fumes requiring respiratory protection.