

## **ASPECT AUTOMATION Position Description**

**Position Title:** Senior Machine Builder  
**Department:** Assembly  
**Reports To:** Assembly Supervisor

### **Job Summary:**

Fits and assembles components according to prints or sketches to construct, rebuild and repair custom automated machines and equipment using hand tools and power tools. Leads projects on a consistent basis.

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

1. Reads and analyzes assembly prints and specifications manual, and plans machine building operations.
2. Fits and assembles components according to specifications and tests for conformance to specifications and operations.
  - Aligns components for assembly and assembles parts using hand tools.
  - Verifies conformance of parts to prints using measuring instruments.
  - Verifies alignment and tolerances of moving parts using measuring instruments.
  - Assembles, sets up and operates machine to verify functioning, machine capabilities and conformance.
  - Forms and fastens pneumatic and hydraulic lines, fixtures and attachments required to service machine with air, water and oil.
  - May install wiring and electrical components to specifications.
3. Debugs assemblies and machines by identifying and correcting problems affecting proper operation.
  - Assists electrical engineers in troubleshooting various electrical components and systems of the machine.
  - Takes an active leadership role during the debug phase of the project.
4. Designs, fabricates, and modifies parts as required.
  - Accurately lays out hole locations and drills and taps holes on parts for assembly.
  - Sets up and operates metalworking machines to fabricate or modify parts.

5. Performs installation, debug, repair and other field service duties that require offsite travel.
6. Trains customer employees on equipment as needed.
7. Provides project feedback to customer, project team and others as needed.
8. Actively participates in team reviews and formal design review meetings as required.
9. Performs other related duties and responsibilities as assigned such as estimating hours for quotes, working with customers to trouble shoot equipment on the customer's floor.
10. May direct the activities of others who are providing support on the same machine.

**Collaboration & Teamwork Expectations:**

- Is an effective team member and is a supporter of the team concept. Cooperates with others inside & outside of their department and unselfishly offers help without being asked. Shares information and openly expresses ideas, in order to solve problems, foster innovation and achieve win-win solutions.
- Consistently models the following attributes; is trustworthy, intently listens, willingly helps others and communicates in a straightforward honest manner.

**Essential Qualifications:**

- A two-year degree in the machine trades or related degree and at least 4 years of combined experience in machining and machine building. Without the degree, at least 6 years of relevant combined experience in machining and machine building is required.
- Ability to read and interpret prints and machine drawings.
- Must possess in depth experience and knowledge of close fits/ tolerances; the alignment of mechanical components; and an understanding of actuators and mechanical functions as well as complex systems.
- Experience working with and assembling pneumatic components and systems.
- Demonstrated leadership, communication, and interaction skills to perform in a collaborative/team oriented work structure. Good English language skills.
- Must be willing to, on occasion, travel overnight to service equipment. Must be willing to travel by air.
- Possess or be able to acquire one's own hand tools.
- Working knowledge of computers and programs i.e. SolidWorks, Microsoft Excel, and ERP systems.
- Willing to work over-time when needed.

**Desirable Qualifications:**

- Working knowledge of pneumatic systems.
- Working knowledge of machine wiring.
- Journeyperson Machinist ranking.
- Willing and able to train others.

**Physical Demands:**

- Continuous standing, grasping and carrying.
- Frequent walking, bending, squatting, reaching, twisting and lifting for extended periods of time.
- Frequent lifting and moving of parts up to 50 pounds to shoulder height.
- Visual ability to read prints and visually inspect; peripheral vision to avoid moving equipment.
- Hearing ability to monitor machine sounds and communicate safety instructions with assembly team.

**Working Conditions:**

- Exposure to moving equipment.
- Occasional exposure to loud noise.
- Exposure to high voltage.