

## **ASPECT AUTOMATION Position Description**

**Position Title:** Senior Design Engineer  
**Department:** Engineering  
**Reports To:** Mechanical Engineering Manager

### **Primary Objective of Position:**

As assigned, leads the design and development of custom equipment systems from concept through delivery using advanced techniques that support complex designs and difficult schedules, including risk assessment and project implementation, assembly and debug.

### **Major Areas of Accountability:**

#### **1. Design**

- Effectively design custom equipment systems by applying engineering skills and experience. This is accomplished by applying advanced engineering analysis and tools, specification and purchase of major equipment, sizing and selection of motive components; material and finishing selections; and the application of manufacturing practices per Aspect Automation standards.

#### **2. Leadership**

- Motivates self and others by initiating actions, delegating appropriately, and effectively communicating the project goals, requirements and results to team members and management.
- Lead projects and project teams.

### **Essential Qualifications:**

- A bachelor's degree in Mechanical Engineering and a minimum of five years relevant experience, or a related two-year post high school diploma/certificate and a minimum of nine years of relevant experience, or in lieu of a degree, an equivalent combination of education and experience.
- Demonstrated effective interpersonal and communication skills.
- Ability to perform a variety of engineering calculations (structural, kinematics, dynamics, etc.).
- Experience preparing engineering documentation; such as multi-level bills of materials.
- Demonstrated ability to explore and develop new technologies and process techniques.

- Must be able to travel, including air, occasionally overnight.
- 3D Solid Modeling proficiency (preferably SolidWorks).

**Desired Qualifications:**

- Supervisory or leadership experience.
- Knowledge of Geometric Dimensioning and Tolerancing.
- Experience designing and conducting experiments and tests.

**ADA Requirements:**

- Typically sits, grasps items and performs keyboarding for frequent operation of a computer.
- Stand, walk, bend, reach or otherwise move about occasionally.
- Lift, move or otherwise transfer items up to 30 lbs. occasionally.
- Occasional exposure to typical machine shop physical hazards.
- Travel by air or car occasionally.