

## **Techshot, Inc.**

### **Position Description**

**Position:** Mechanical Designer  
**Reports To:** Design/Technician Manager  
**Education Requirement:** Associate's degree (A.A.) or equivalent from two-year college or technical school; or 5-6 years related experience and/or training: or equivalent combination of education and experience.

**SUMMARY** - Design and develop project solutions primarily through the use of 3-D project models from which component drawings, assembly drawings, parts lists, and bills of material are created and documented. Design, assemble and test machinery and equipment under direction of engineering and scientific staff.

#### **DESIRED ATTRIBUTES:**

- Self-starter
- Self-disciplined
- Good organizer and planner
- Highly motivated, enthusiastic, creative and independent
- Excellent presentation and communication skills, both written and verbal

**ESSENTIAL DUTIES AND RESPONSIBILITIES** include the following. Other duties may be assigned.

- Work with engineering staff to design and develop mechanical hardware to fulfill contract obligations on time and within budget.
- Develop and maintain accurate 3-D models throughout project lifecycle.
- Prepare detailed component and assembly drawings of a wide variety of machinery and mechanical devices, indicating dimensions, fastening methods, and other requirements.
- Possess a working knowledge of Geometric Dimensioning and Tolerancing (GD & T) to detail part drawings for manufacture.
- Use 3-D computer aided design tools to create models and detailed dimensioned views of those parts and assemblies (with emphasis on Autodesk Inventor).
- Orchestrate design and fabrication paths with a general knowledge of a multitude of manufacturing techniques and systems including but not limited to CNC milling, sheet metal, lathe, wire EDM and additive manufacturing.
- Assemble new or modified mechanical components or assemblies for products such as industrial equipment and machinery, power equipment, servo systems, machine tools, and measuring instruments.
- Manage and control critical drawings and documents in a configuration management software system.
- Work with engineering staff to set up and conduct tests of complete units and components under operational conditions to investigate design proposals for improving equipment performance or other factors, or to obtain data for development, standardization, and quality control.
- Analyze indicated and calculated test results in relation to design or rated specifications and test objectives, and modify or adjust equipment to meet specifications.
- Create and document test procedures and results, numerical and graphical data, and recommendations for changes in product or test method.
- Work with other project members in a "team" atmosphere.
- Identify potential manufacturing and/or assembly problems during product design and work to help solve them.
- Be able to use basic and advanced shop tools.
- In addition to these responsibilities, assistance with additional tasks deemed suitable by your manager will be requested from time to time. Detailed instructions will be given in accordance with each task when assigned.

To apply, please email your résumé to: [careers@techshot.com](mailto:careers@techshot.com)

Or mail to:  
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