

## **Job Title: 3D PRINTING AND ROBOTICS ENGINEER**

**Reports to:** Design Engineering Manager

**Indirectly Reports to:** None

**Direct Reports:** None

**Indirect Reports:** None

**Classification:** Salary/exempt

**Summary/Objective:** The 3D Printing and Robotics Engineer is accountable for developing, fabricating, implementing, testing, documenting, maintaining, supporting and improving control system solutions across the manufacturing facility.

### **Main Responsibilities:**

- Initiate, conduct and direct robotic programming activities and system communication tasks (controls, electrical, mechanical and project management) through to project completion
- Ensure and constantly improve the safety, morale, quality and profitability of our operations through the ongoing implementation of effective methods and strategies
- Create, monitor and maintain a well kept, organized and safe work environment while promoting and enforcing adherence to safety guidelines, policies, programs, laws, regulations and protocols
- Program, test and debug robots and control systems
- Conduct research into the feasibility, design, operation and performance of mechanisms, components and systems and suggest and source as required
- Use and interpret analytical techniques to verify or select alternate design approaches
- Deploy advanced technologies to sustain and grow our market position
- Document, monitor and communicate on project progress and develop strategies to meet deadlines
- Supervise and inspect the installation of mechanical systems
- Ensure efficient collaboration and coordination between departments for job completion
- Develop maintenance standards, schedules and programs
- Investigate mechanical failures or unexpected maintenance problems
- Participate in meetings for tooling design and system development
- Provide service and support to employees using the systems
- Prepare detailed documentation of procedures and systems
- Communicate and uphold company policies and procedures
- Maintain a high level of confidentiality at all times

### **Competencies:**

- Strong critical thinking and analytical skills to resolve issues quickly

- Approaches problem solving with innovation and creativity
- Proven interpersonal, written and oral communication skills to effectively interact with people at all levels of the organization
- Excellent time-management and multi-tasking skills with an ability to work under resource constraints in a fast-paced environment
- Highly motivated, participative leader with a proactive approach
- Strong collaboration and coordination abilities to pull groups together to achieve success
- Organized with attention to detail
- Demonstrated ability to work both independently and as part of a team
- Enthusiasm and willingness to learn
- Fluidity to work with projects based on the imperial system of measurement

**Requirements** (education/certifications/licences/passport/clean drivers abstract):

- Engineering degree or engineering technician/technologist diploma
- Experience with 3D CAD, blueprint reading, PLC Programming and HMI Design
- Experience working in an industrial manufacturing environment
- Experience with Microvellum software would be considered an asset

**Working Conditions:** Various manufacturing areas in a millwork facility; office environment

**Travel Requirements:** Travel is typically not associated with this position

**Disclaimer:** The duties and responsibilities described are not a comprehensive list. Additional tasks may be assigned from time to time or the scope of the job may change as necessitated by business needs.

**Review Date:** January 27, 2025