## **Controls Engineer**

### **Job Summary**

### The Controls Engineer is responsible for controls programming, final testing, troubleshooting, and quality qualification related to automation programming required by PEM machines. The Controls Engineer will report to the Electrical Engineering Lead and have the following duties:

### **Primary responsibilities**

• Develop, test and support controls programming, smart device settings, and other automation programming for machines. The primary focus is PLC and HMI programs.

• Contribute to, upgrade, and maintain standard programming libraries to support company product offerings.

• Support continuous improvement processes specifically focused on controls programming and final machine functionality, ease of assembly, and ease of use.

• Coordinate as needed with others inside and outside of engineering to ensure a proper understanding of customer requirements and expectations for their machine.

• Coordinate with other engineers, sales, and directly with customers to understand the customer requirements, design, features, and functions of a machine that require programming of any kind.

• Contribute to and maintain documentation related to a final qualification, startup, and testing requirements of machines.

• Confirms system's and components' capabilities by designing testing methods; testing properties.

• Contribute to and maintain Controls programming standards and documentation.

• Support customer service requirements that are escalated based on the need for additional technical expertise. Primarily this is a phone and online support but has the potential to include travel if the additional expertise is needed on site.

• Work safely without presenting a direct threat to self or others.

• Maintains product and company reputation by complying with federal and state regulations.

• Compliance with all safety rules and guidelines.

• Strong work ethic and great attitude needed.

• Other duties as assigned.

### **Other responsibilities (as assigned)**

• Travel is required as needed.

• Contribute to Electrical design of machines as needed based on feedback from testing.

• Contribute to customer-related documentation such as machine manuals.

• Contributes to team effort by accomplishing related results as needed.

• Support engineering projects and improvement initiatives. This can include projects such as modernization efforts, internal process improvements, and the development of new machine features or support frameworks related to Controls programming.

### **Qualifications**

* Bachelor’s degree in industrial automation or equivalent experience.
* Prior experience in manufacturing environments is a plus – especially with electrical, troubleshooting, or PLC programming
* Ability to read and understand electrical schematics
* Ability to read, understand, and troubleshoot PLC and HMI programming
* Strong understanding of electrical manufacturing processes.
* Strong cause-effect analytical abilities to solve and troubleshoot problems.
* Excellent oral and written communication skills
* Proficient in Microsoft Word, Excel, and PowerPoint
* Strong work ethic and great attitude.
* Valid Driver’s License

### **Work Environment**

Most work is performed in an office environment and in our climate-controlled facility. May require trips to customer facilities or plants for service, observation, and research.

### **Physical Demands**

While performing the duties of this job, the employee is regularly required to sit. The employee frequently is required to walk; use hands to finger, handle or feel; reach with hands and arms; and talk or hear. The employee is occasionally required to stand. The employee must frequently lift or move objects up to 10 pounds and occasionally lift or move objects up to 25 pounds. Specific vision abilities required by this job include close vision, distance vision, color vision, and the ability to adjust focus.