**Position Description:** Controls Engineer

**Reports To:** Controls Engineering Manager

**Classification:** Exempt

**Salary Grade:** A Tier

**Summary/Objective:**

This position is responsible for the design and programming of the electrical controls used on a variety of machines produced by Simpson Technologies. This includes the ability to create electrical schematics using AutoCAD, bills of materials, develop controls programs using ladder logic and develop graphic interface programs. Primary duty will be design and development of Allen Bradley and/or Siemens control systems. This position works under general supervision and interacts with customers via phone/email/face-to-face.

**Essential Functions:**

* Design and develop electrical controls and software programs for control panels used on equipment provided by Simpson Technologies.
* Monitor the progress of the controls development of assigned projects.
* Maintains the established design standards of the department.
* Supports the sales efforts of the Company by providing technical support and consultation during the development of proposals or quotations.
* Support the Field Service Engineers by providing technical support.
* Maintains the Company’s leadership in the industry in terms of product performance, service and value.

**Required Education:**

* Minimum EE, EET or computer science degree in a related field i.e., applied mathematics or equivalent controls programming experience.

**Required Experience:**

* Minimum 1-2 years of experience controls programming experience with Allen Bradley PLC’s.
* Minimum 1 years of systems design experience with Allen Bradley controls panels (panel design and bills of materials).

**Required Skills:**

* Industrial controls knowledge (sensors, AC and/or DC drives and servo controllers)
* Allen Bradley PLC5/SLC5/Compactlogix PLCs and PanelView Plus HMI programming
* Siemens S7-300 and/or S7-1500 PLC and Siemens Comfort Panel HMI programming (a plus)
* Ethernet Communications knowledge (a plus)
* OEM background (a plus)
* Pneumatics experience
* Foundry background (a plus)
* Excellent verbal, written and presentation skills
* Excellent math skills
* Excellent organization skills
* The ability to travel via air or ground to domestic and overseas customer sites minimally 20% of the time.
* The proven ability to achieve desired results on multiple projects using influence and information gathering rather than direct reporting relationships.

**Core Competencies:** *Accountability Communication Efficiency*

*Innovative/Creative Knowledge/Experience Teamwork*

*Operational Excellence*

**Supervisory Responsibility:** No

**Work Environment:** Generally, work is performed within a standard office environment with no hazardous or unpleasant conditions caused by noise, dust, etc. Occasionally, works in foundries which present hazards such as heat radiating from molten metal, respiratory effects from dust, vapor or fumes, skin effects from contact with chemicals, slips, trips, falls, physical injuries from machinery and noise.

**Physical Demands:** *The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job.*

* + - * Work is generally sedentary in nature.
      * Occasionally requires frequent standing, bending, carrying, stooping, and walking.
      * Must be able to detect and comprehend small type and discern numbers.
      * Must be able to communicate and exchange information verbally and in writing.
      * Must be able to operate and use a computer and its office related applications and other office equipment.