Title:

Control Systems Engineer

Reports to:

Plant Engineering Manager

Job Purpose:

The Control Systems Engineer is responsible for designing, maintaining, and troubleshooting the automated utility and processing equipment, specializing in robots, vision systems, and Programmable Logic Controllers.

Key Responsibilities and Accountabilities:

- Understand, maintain and troubleshoot plant control systems, including PLC controllers and industrial networks such as Ethernet, Profibus, motor control systems, servo drives, frequency drives, and electrical distribution systems
- Monitor the utility and process control systems for the automated equipment
- Develop and build processing equipment metrics and partner with maintenance and operations for system performance issues
- Apply subject matter expertise in machine interfacing and electronic systems to maximize building utilization of systems
- Develop human machine interface (HMI) solutions within Ignition for small processes up to entire network deployments
- Build automated scripts in various programming languages
- Partner with building operations leadership, equipment vendors, and parts suppliers to plan and coordinate new technology installations
- Act as the technical consultant for capital projects inside the building
- Utilize building network support resources for guidance and assistance, and provide assistance to peers
- Handle flexible workload which may come from management or other operations
- Handle ground up design, architect, and implement SCADA systems, including SQL database pipelines
- Travel domestically up to 5%. (2-3 weeks)

Basic Requirements:

- Bachelor's degree in electrical engineering, engineering technology, or other related engineering OR 5+ years of equivalent professional experience
- 2+ years of working experience as controls engineer or systems development engineer, or software development engineer
- AutoCAD experience

Preferred Requirements:

- Experience with multiple code languages (C++, Python, Java, Ladder Logic, Structured Text).
- Experience identifying, maintaining, troubleshooting, and modifying motor controls including motor starters, variable frequency drives, and standard electrical components
- Industrial electrical hands-on experience and troubleshooting, including 480V 3-phase, 110 VAC, and 24VDC systems
- Experience with SQL or MySQL databases
- Experience with advanced automation controls systems
- Experience with SCADA system (Ignition)
- Experience with industrial robotics
- Strong proficiency with Microsoft Office products