

Position: Electrical & Controls Engineer

Location: Independence, KY

Position Type: Full Time

Reports to: Electrical & Controls Engineering Manager

We are in search of an electrical/controls design engineer to supplement our existing engineers in support of current projects and design of future projects. As a controls engineer, you should have excellent mathematical skills, familiarity with electrical systems, CAD software, and PLC programming experience. Moreover, you should have a keen attention to detail and strong troubleshooting, communication, and organizational skills. This job will allow you to expand your knowledge of electrical design and controls programming by working with many different PLC, HMI, and VFD manufacturers.

This role will be primarily focused on jobs that include specifications, which are most common in the municipal/wastewater industry, and to a lesser degree in the pharmaceutical and oil and gas industries. There will be two main parts to this:

- 1) Before an opportunity becomes a job, read through and review the customer provided specifications and provide comments on what we can and we can't do and pricing to bid the job.
- 2) After we win the job, follow the spec and any exceptions/deviations we took and design the panel and program accordingly.

Responsibilities:

Electrical

- Develop electrical schematics in CAD for control panels
- Power up electrical systems and configure hardware per application specifications
- Help establish new and maintain existing standards
- Check quality of assemblers and technicians work and respond to inquiries as needed
- Research, design, and program new, as well as maintain existing, VFDs as required per customer requirements.
- Work with the sales group to provide input with quote preparation as required
- Assist with wiring up machines and skidded system in our shop

Software

- Design and develop software applications (PLC and HMI) based on given requirements and specifications
- Understand client requirements for communication interface/networking and create specifications based on these requirements
- Review, repair, and redesign legacy code
- Troubleshoot issues with existing installed systems
- Write user manuals to communicate functionality of company developed programs

Qualifications:

Required

- Degree in electrical engineering or related discipline
- 3+ years of experience working with controls and automation
- Experience with reading and designing according to heavy specifications in the municipal, automotive, oil and gas, or similar industry
- Familiarity with PLC/HMI software and hardware (primarily Allen Bradley, some Siemens)
- Familiarity with electrical CAD software
- Proficiency with MS Office and general computer literacy
- Must be able and willing to travel and work at customer sites (roughly 10-15% of the time). Most travel is domestic, with some international trips to Canada, Germany, and others as needed.
- Strong analytical and problem-solving skills
- Excellent communication and interpersonal skills
- Detail oriented and highly motivated
- Good time management and organizational skills
- Ability to work independently and collaboratively
- Able to work under pressure and manage deadlines