

Job Description

Job Title: Controls Engineer Level 2
Date: April 26, 2021
Reports to: Controls Engineering Manager
Office Location: Based at BMI Main Office, Loomis CA. 30%-40% field work at customer production facilities

Summary

We are looking for an experienced electrical engineer/technician to design electrical systems for food and beverage processing facilities. Candidate will be part of a team consisting of mechanical, piping and equipment designers and installers to install and commission sanitary food and beverage processing systems. Candidate will be responsible for estimating, tracking the project budgets, schedules, and milestones, as well as overseeing the installation of the electrical utility systems to support the overall processing system.

Project Development

- Collaborate interdepartmentally to assist design team with instrument selection, control system design, and estimating
- Collaborate on design and specification of control system including PLC's and associated IO, HMI's and software, and control networks to support process mechanical design
- Collaborate on design of control system networks
- Collaborate on design of complete electrical system 480VAC, 120VAC, 24VDC, and communication wiring to support process, including electrical scope of work, conduit schedules, and schematics
- Create schedule for engineering design, CAD, control panel procurement, electrical installation, and commissioning
- Collaborate on proposal development

Project Estimation

- Assist with estimating engineering hours required to design electrical and control systems
- Assist with estimating drafting hours required to create electrical schematics, control panel layouts, network topologies
- Assist with estimating engineering hours to program PLC's, develop, and configure SCADA systems, and commission process
- Assist with estimating control panel and network hardware price
- Estimate complete electrical installation price

Purchasing

- Use Vista software to create purchase orders for control panels and hardware
- Use Vista software to create subcontracts for electrical subcontractors

Project Management

- Manage electrical subcontractors and ensure that the project timeline milestones are met, and that the installation meets electrical design specifications
- Coordinate the electrical installation to ensure that the electrical installation does not interfere with the mechanical/piping installation
- Conduct project update meetings with subcontractors and customer representatives
- Manage the control system installation, ensure that the project timeline milestones are met, and that the installation meets the control system design specifications
- Assist with instrument verification by configuring instruments and simulating signals from the instrument to the controller

Technical Skills

- Knowledgeable on current standards such as NFPA, UL 508, UL 698A, NEC, IEC, CE, ISA-88
- Estimating
- Ability to understand P&IDs
- Microsoft Excel
- Microsoft Project
- AutoCAD
- Familiarity with Allen Bradley PLC families
- Familiarity with Rockwell FactoryTalk
- Familiarity with Ignition SCADA

Competency Requirements

- Ability to stay on task with multiple interruptions
- Ability to work with customers and fellow employees in a professional and respectful manner
- Understanding of PLC systems and communication networks
- Ability to lead and manage teams consistently with respect and integrity
- Manage electrical installation
- Manage control system commissioning
- Ability to work in a dynamic work environment
- Ability to travel to remote job sites for installations
- Ability to meet deadlines in a fast-paced work environment
- Strong sense of loyalty and commitment to BMI
- Strong written and verbal communication skills
- Self-starter



Education

- 2-5 years of experience in related job function or bachelor's degree in Electrical Engineering

Physical Requirements

- Stand for 10 hours each day
- Ability to climb ladders for IO testing and calibration of instrumentation

To Apply

Send your resume to: hr@barnummech.com