

Membrane Process & Controls, Inc.

Job Description



Job title: Automation Application Engineer

Work Location: Edgar, WI – Main Office

Division/Department: Estimating

Reports to: Estimating Manager

Full-time

Part-time

Exempt

Nonexempt

Essential Duties and Responsibilities:

This position provides support for the sales department for estimation of automated process controls which MP&C designs and builds. The majority of the equipment and systems that these process controls support are utilized in the food and dairy industries. Maintain MP&C's integrity, professionalism and profitability through interaction with vendors, internal personnel and customers.

- Ability to read and interpret electrical control schematics.
- Work closely with sales personnel, project managers, process engineers, electrical engineers and control technicians to provide timely support for multiple projects.
- Familiar with Process & Instrumentation Drawings and typical control symbols.
- Ability to read and understand process instrumentation manuals and wiring diagrams (i.e. pressure transmitters, flowmeters, level transmitters, etc.).
- Familiar with Rockwell Automation control hardware. Ability to select correct models and develop part configurations for quotation and purchase.
- Understands the layout and building of control panels with all PLC and pneumatic hardware. Specifically, the hardware utilized to build. Also have understanding of how to apply labor factors for quoting man hours to design and build.
- Understand basic electronics and instrumentation. Understanding vector frequency drives, how to select correct models and develop part configurations.
- Basic knowledge of Ethernet switching hardware (managed vs unmanaged). Also understand basic routing of Ethernet communication between control panels that make up a control network.
- Interface with vendors for knowledge and guidance of component selections as well as to troubleshoot issues.
- Interface directly with customers for both preparation of proposals and component sales.
- Maintain compliance with all company policies and procedures.
- An average of 20% over night travel to both state and domestic U.S. customer facilities may be required.

Education and/or Work Experience Requirements:

- Excellent math and technical reading aptitude.
- Excellent verbal and written communication skills, including ability to effectively communicate with internal personnel and external customers.
- Through knowledge of how control wiring and how to determine I/O counts (24VDC, Analog, Digital).
- Good understanding of AC power wiring for motors and VFDs (120V/1Ph/60Hz & 230-480V/3Ph/60Hz)
- Excellent computer proficiency (MS Office – Word, Excel and Outlook)
- Desired – Some AutoCAD experience. It is helpful for editing electrical drawing and as-built records.
- Must be able to work under pressure and meet deadlines, while maintaining a positive, professional attitude and providing exemplary customer service.
- Ability to work independently and carry out assignments to completion within parameters of instructions given, prescribed routines, and standard accepted practices.
- A minimum of a technical school degree in Electrical/Mechanical Technician Program.
- Desire – hands on training with process instrumentation and PLC components.
- Need to be able to obtain a Passport for international travel.

Physical Requirements:

- Ability to safely and successfully perform the essential job functions consistent with the ADA, FMLA and other federal, state and local standards, including meeting qualitative and/or quantitative productivity standards.
- Ability to maintain regular, punctual attendance consistent with the ADA, FMLA and other federal, state and local standards
- Must be able to sit for work at a desk and/or stand for long periods of time when required.
- Ability to walk, climb ladders, bend, lift and carry up to 50 pounds in an industrial plant is very helpful.
- Must be able to talk, listen and speak clearly in person or via phone

Print Employee Name:

Employee signature:

Date: