FishboneTechnical.com
(720) 388-9275
(612) 590-9531

FISHBONE
TECHNICAL SERVICES

Corpus Christi, TX
Minneapolis - St Paul, MN

Automation Engineer – PLC, HMI, SCADA, MES

Location:

Remote Work From Home within 1.5 hours of a major airport.

Job Summary:

The Automation Engineer has design, programming, troubleshooting, and start-up responsibilities for industrial automation projects. You will provide controls designs from concept to final commissioning primarily using AutoCAD Electrical. You will also architect and perform the controls programming primarily using Studio 5000, FactoryTalk View, and Ignition. Projects consist of both process control and machine control and will be performed both remotely and on location.

Responsibilities:

- Participate in client meetings to define scope and functional and operational requirements of the PLC/HMI/SCADA system.
- Interpret P&ID, Process Flows, Specifications, and other system design documentation to use as the basis of control system design and programming.
- Provide detailed design of industrial control systems including control panel design, networking design, and field device specification.
- Provide control panel designs compliant with UL508A.
- Create I/O lists, specifications, test procedures, manuals, and other project documentation as needed.
- Create and document control system PLC/HMI/SCADA programs using modular and reusable programming techniques.
- Configure and program control system devices such as managed Ethernet switches, protocol converters, VFDs, and other controllers.
- Provide control system hardware and software shop testing.
- Provide on-site control system start-up and commissioning.
- Create GMP designs with an emphasis on operability, maintainability, and uptime.
- Organize drawings and drawing tools effectively to provide efficient work.
- Lead document control and versioning activities to ensure project submittals, deliverables, transmittals, and all related documentation is properly processed, tracked, and controlled.
- Participate and document design reviews and drawing updates from initial design through final as-built drawings.
- Ensure adherence with local, city, state, federal and all applicable regulations.

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Requirements:

- Prior experience or willingness to obtain experience in food production and packaging line automation.
- Prior experience or willingness to obtain experience creating complete PLC programs using Studio 5000 and HMI/SCADA screens using Ignition and FactoryTalk View.
- Prior experience or willingness to obtain experience creating control panel drawings and network diagrams using AutoCAD Electrical software.
- Prior experience or willingness to obtain experience in the food industry, including applicable USDA regulations and designs that support proper sanitation and GMPs.
- Prior experience or willingness to obtain experience with all types of production and packaging equipment in the food industry and experience integrating this equipment.
- Prior knowledge or willingness to obtain knowledge of Ethernet/IP industrial communication protocol.
- Prior knowledge or willingness to obtain knowledge of MES and integration to control system and ERP.
- Prior knowledge or willingness to obtain knowledge of scripting languages and databases.
- Must have strong verbal and written communication skills and interact with the client and all team members in a respectful and professional manner.
- Must be proficient in active listening, seeking clarification, and thoroughly understanding the client's needs and the needs of the project.
- Must be self-motivated and possess the fire and drive to take care of the client and succeed.
- Ability to handle multiple priorities and deal with ambiguity.
- Willing and able to travel as necessary for the project. Typically, up to 35% travel to primary job site.
- Possess a valid driver's license and ability to obtain a Passport and TWIC card.
- U.S. Citizen or have legal right to work in the USA without sponsorship.
- Pass a criminal background check and drug test.
- Work occasional start-ups which will include extended working hours.

Physical Requirements:

- Sit and stand for extended periods of time.
- Regularly reach with hands and arms, occasionally above shoulder level.
- Regularly stoop, kneel, crouch, crawl, stretch, twist, and climb ladders and stairs.
- Ability to move/lift up to 50 pounds.
- Ability to use power and hand tools.
- Manual dexterity and visual acuity/color discernment to perform delicate tasks such as wire striping, wire terminations, sensor calibration, and machine adjustments.

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- Specific vision abilities include close vision, color vision, peripheral vision, depth perception, and ability to adjust focus.
- Ability to wear Personal Protective Equipment for eye, ear, head, foot, and hand protection.
- Ability to wear proper cleanroom attire such as smock, hairnet, and shoe coverings.
- Willingness to work in ultra-clean to heavy industrial (dirty/dusty) work environments.

Benefits:

- Cell phone stipend, $25/pay period.
- Per Diem (meals & incidentals), $70/day during travel.
- Travel expenses (airfare, lodging, rental car, etc) require a submitted receipt and are reimbursed each pay period.
- Personal Time Off, 3 weeks paid PTO.
- HealthShare for the employee and family members will be covered by the company. (Medical coverage)
- Vision and dental insurance can be added to the insurance package as a payroll deduction.
- Office location will be from your home and/or from the job site as the project requires.
- Home office equipment will be supplied by Fishbone Technical Services, computer, monitors, docking station, keyboard, mouse. These are company assets and will be returned if the employee no longer works at Fishbone Technical Services.
- Flexible office hours.
- Holidays, 8 days
    - New Year's Day, Memorial Day, USA Independence Day, Labor Day, Thanksgiving Day plus Friday following, Christmas Eve and Christmas day.
    - If Holiday falls on weekend day, we will update the days off as needed.

About Fishbone Technical Services:

We are a consulting firm focused on client's needs, good communication, and helping others. We represent clients in an Engineering and Logistical capacity to plan, organize, and execute projects. Our specialties are Capital Projects, Project Management, Line Optimization, and Industrial Automation.