

PLC Programmer / Software Engineering Technician

Company: Norchem is a clean technology-engineering firm founded in 1978 and based out of Los Angeles, CA. We specialize in developing sustainable laundry chemical solutions, proprietary water filtration & recycling technologies, industrial software, and custom stainless steel fabrication. Our solutions and services are designed to minimize our environmental footprint, incorporate cutting edge technology, and are built to the highest quality standards. With over 37 years of experience in the chemical and water treatment industry, we pride ourselves on setting a standard for providing the most state-of-the-art solutions for our clients' needs.

Position Summary: Ideal candidate is a PLC programmer who is able to expertly program plant management and workflow systems for customized applications.

Position Duties:

- Provide on-site support for the testing of PLC/HMI systems for existing and new clients
- Work with Norchem Engineering teams to provide overall support for the installation teams of Norchem control systems
- Assist with the development of PLC/HMI programs and graphics
- Test and commission PLC/HMI systems in strict validation environments as are normal in the water industry
- Travel to project locations as required
- Develop submittals for approval of control strategies by customers
- Special emphasis on programming IDEC PLC: MicroSmart Pentra, Mitsubishi Q Series, and AIS Series

Additional Duties May Include:

- Understanding design specifications and technical drawings
- Researching suitable solutions and estimating costs and timescales
- Monitoring a product in use to improve on future design
- Proposing modifications and retesting products to remediate malfunctions
- Making models and prototypes of products using design software
- Writing new software and establishing programming standards
- Discussing and solving complex problems with manufacturing departments, sub-contractors, suppliers and customers
- Developing a project specification with colleagues, often including those from other engineering disciplines
- Using research, analytical, conceptual and planning skills, particularly mathematical modeling and computer-aided design
- Evaluate final product's overall performance, reliability and safety
- Prepare product reports and documentation

Qualifications:

- Minimum B.S in Software Engineering disciplines
- Program in Visual Basic and .Net
- Oversee Ladder Diagnosis, repair, and service of automated equipment/systems
- Must be able to work independently while proactively contributing to team efforts
- Valid driver's license and clean driving record

Skills:

- Able to understand various forms of water treatment processes including but not limited to CMF water treatment, disinfection equipment, industrial pre-treatment equipment
- Technical writing
- Working experience with product lifecycle management (PLM), finite element analysis (FEA) and computational fluid dynamics (CFD)
- Hands-on experience with computer-aided engineering (CAM) and computer-aided manufacturing (CAE)
- Working experience with Visio, Project Pro
- Familiarity with 2D or 3D engineering design and manufacturing tools (e.g., AutoCAD, ProE or other)
- Adequate knowledge of engineering analysis tools (ANSYS, ProMechanica or similar)
- Mathematical computing and analysis tools knowledge (Matlab, Excel, LabView)
- Creativity and analytical skills
- Ability to communicate technical knowledge in a clear and understandable manner