

Controls Software and Service Technician

Job Summary

As a Controls Software and Service Technician you will be part of an engineering team which is responsible for developing custom controls per application in addition to sustaining existing systems currently used in operations across North America. Your work is mostly related to the support of central utility plant systems including boilers, burners, compressed air systems, cooling systems and related equipment. This is a dual function position requiring a solid understanding of industrial PLC and HMI software along with a strong foundation in implementing systems in the field.

This position requires a self-sufficient, detailed and diligent person to ensure a positive outcome is achieved for each project. If you're interested in a dynamic career with a healthy, growing firm, you've come to the right place. This is a position where your efforts directly drive the success of each project.

Primary Responsibilities

- Software development primarily utilizing RSLogix 500, RSLogix 5000, FactoryTalk View ME/SE editions, Ethernet style communications and pertinent protocols and Modbus communications via RS485 multi-drop link
- Travel to client facilities for gathering of initial information, review meetings, construction support, commissioning and training
- Conduct Factory Acceptance Test (FAT) of the generated software and hardware
- Prepare Sequence of Operations Manuals containing all relevant functions, alarms, recoveries and operational procedures. Include HMI graphic screen descriptions along with highlights of operator functions and monitoring capabilities.
- Prepare training syllabuses/manuals and to present training to end clients, sales representative field service technicians and OEM users of these products
- Assist in the development of proposals, cost estimates and schedules
- Perform configuration and startup services in the field consisting of:
 - SMART type instruments, actuators and switches: use a handheld or PC based device to configure devices, set ranges, limits, stroke, and deadbands
 - Non-Smart type instruments, actuators and switches: use hand pumps, digital voltmeter and power source to properly calibrate devices for range, setpoints etc.
 - Loop check devices from the field to the control panel terminals
 - Software check that all devices are reading correctly at the controller, and that they are being displayed on the HMI. Ensure all devices are ranged/scaled correctly per the instrument sheets and configured in the control system correctly. Verify manual operation of all controlled elements are properly displayed from the control system HMI.

- For combustion systems: Pre-fire test control system from purge through light-off to ensure proper operation of the control software, hardware and devices. Adjust burner air-fuel ratios for optimum emissions and efficiency.
- Document each device and testing procedures including: tag name, instrument type, service conditions, serial and model numbers, critical settings, measured values, “as found” and “as left” conditions.
- Perform additional tasks in support of various company and project objectives

Qualifications

- Software development experience utilizing RSLogix 500, RSLogix 5000, FactoryTalk View ME/SE editions, Ethernet style communications and pertinent protocols and Modbus communications via RS485 multi-drop link
- Familiar with typical Supervisory Control and Data Acquisition (SCADA) system software packages such as FactoryTalk View, Wonderware and Cimplicity
- Understands typical instruments utilized within a powerhouse environment
- Understands electric and pneumatic actuators for zero and spanning operations relating to stroke, seating, position feedback and position switches
- Understands Function Block & Ladder Logic programming
- Good program structure and documentation skills is a must to ensure others can follow along with the thought pattern and aid in troubleshooting and verification of the generated code
- Skilled in troubleshooting, reading electrical connection drawings and ensuring devices are properly connected
- Generates and understands Functional Control Diagrams and SAMA diagrams
- Generates and understands PID drawings
- Enjoys traveling 10%-40% of time
- Self-starter and takes initiative
- Manages several projects' workload
- Experience in working in a deadline environment
- Written and verbal communication skills
- Proven project delivery through development of scope, costs, schedule and commissioning
- Microsoft Word and Excel expertise
- Commitment to company core principals of systems' safety, reliability and efficiency
- 5+ years relevant work experience

About Lipten

Lipten is an Engineering, Procurement and Construction (EPC) company specializing in central energy centers. Lipten has been providing energy center engineering, procurement and construction services since 1969. Lipten services encompass cogeneration, boiler systems, hot water generation systems, chiller systems, feedwater systems, power systems, industrial water treatment systems and ancillary equipment required of these major systems. Our capabilities include: retro-fitting existing systems; new construction; engineering disciplines for all areas including civil, structural, mechanical, electrical, combustion and controls; procurement of all equipment; project management; construction services including site supervision of sub-contractors; commissioning and startup of systems including boilers, burners, controls and related utility equipment.

Lipten Mission Statement

*Lipten will make “power” a source of value for our clients by providing superior engineering, procurement and construction of steam, hot water, compressed air, chilled water and electrical systems. Lipten operates profitably throughout the world in an ethical, environmentally sensitive and socially responsible manner while focusing on the core principals of systems’ safety, reliability and efficiency. **Essential to achieving our goals is our dedication to maintaining a positive working environment.***

Lipten Company offers competitive salaries and a comprehensive benefits package including medical, dental and 401(k) as well as three weeks paid personal time off in addition to ten paid holidays. Lipten is an equal opportunity employer. Please reply with resume and salary expectations to Caryn Robinson, crobinson@lipten.com.