

Position	Controls Engineer
Facility	Monterey Bay Aquarium
Location	Monterey, CA
Job Summary	Under limited supervision, maintain and troubleshoot existing controls system, including panels, PLC Programs, HMIs and SCADA Front End, for the Monterey Bay Aquarium and aquarium buildings; design, program, build, install, check-out, and operate new controls systems for new exhibits or upgrades to existing systems; troubleshoot various communications networks, including TCP/IP, (TCP)ModBus, BacNet, and WIFI; respond to alarms or calls from staff related to the life support controls system, HVAC and lighting, both during and outside of work hours, as needed; perform other duties as required.
Essential Functions	Troubleshoot control systems wiring, PLC / SCADA logic, PLCs, and calibrations, both for issues detected internally or in response to alarms or calls from other staff. Design code for new control systems and PLCs for life support automation, alarm functions, HVAC programs, and other building system automations. Design controls sequence of operations for new exhibits or for upgrades to existing life support or facility systems. Design and install PLC panels, wiring, sensors, transducers, and all other aspects of exhibit control systems, working closely with other stakeholders in life support, instrumentation, facilities maintenance, and animal care to prioritize work. Validate new control systems and PLCs to ensure functions operate according to guidelines. Provide technical direction for design and installation of controls and electrical infrastructure for new exhibits and systems, including equipment specifications/quotes/purchases. Draw SCADA diagrammatic screens, diagrams, and trending capabilities for aquarium life support and facility systems for new systems or as edits to existing diagrams. Produce piping and instrument (P&ID) drawings, wiring diagrams, and other schematic drawings for new systems using tools such as AutoCAD.
Other Duties and Responsibilities	
Knowledge, Skills and Abilities	Experience developing databases, graphics, events in FactoryTalk View Experience working with aquarium or zoo life support systems Experience using AutoCad Experience building PLC panels Excellent analytical and problem-solving skills Excellent communication skills Advanced working knowledge of on-line troubleshooting/editing/programming of operational PLCs Advanced knowledge of electrical work and instrumentation Ability to work within, and maintain Monterey Bay Aquarium's Core Values
Education & Experienced Required	Bachelor's degree in electrical engineering, mechanical engineering, automated controls, or manufacturing. 5+ years of PLC Programming and systems maintenance using Rockwell software RSLogix 500. 2 years experience with SCADA front end platforms
Licenses and Certifications Required	
Physical Requirements	Sitting, periodic standing, periodic walking, climb stairs and ladders, reaching, detailed electrical and panel work while standing or stooping Occasional unassisted lifting up to 30 lbs Typical office

equipment, lock out tag out, electrical equipment, small tools for PLC and electrical work, hand and small power tools, computers

Working Conditions

Typical office environment, service areas, construction sites, mechanical spaces, main aquarium, ARCC, electrical rooms

Salary

Respond To

Apply here: <https://montereybayaquarium.snaphire.com/jobdetails?ajid=iWfj8>

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Entry ID: 550