

Position	ARCC Life Support and Water Quality Specialist
Facility	Monterey Bay Aquarium
Location	Monterey, CA
Job Summary	Under general supervision, responsible for operation, quality control, troubleshooting, repairs, and maintenance of life support systems and facility systems at the Monterey Bay Aquarium Animal Research and Care Center (ARCC); perform water quality laboratory analyses, recommends life support changes, monitors and operates life support systems, operates Heating Ventilation and Air Conditioning (HVAC) systems, and maintains and operates specialty equipment, water filtration, and water quality sensors in order to optimize water flow and water quality at the facility; access computerized control system off hours as needed to provide 24/7 coverage of the life support; perform other duties as required.
Essential Functions	Troubleshoot and repair critical water and mechanical plants associated with an offsite live animal holding and quarantine facility incorporating 350,000 gallons of semi-closed seawater systems; systems include pumps, pressure sand filters, ozone systems, protein fractionators, ultraviolet sterilizers, drum filters, bag filters, carbon filters, air blowers, air compressors, boilers, chillers, heat exchangers, and HVAC with cooling tower Analyze and interpret water quality data, equipment output, and flow data as it relates to life support and building system needs Recommend system adjustments, operational parameters, needed repairs, engineering decisions, or new designs based on monitoring of the computer-based control system data, water quality results, animal health needs, water flow needs, or regulatory requirements Calculate flow rates, volumes, and water movement needs and flow changes to optimize water levels and water quality. Perform water quality laboratory analyses of ARCC systems using handheld and bench-top instrumentation and laboratory wet chemistry techniques. Perform preventative maintenance on water and mechanical plants, to include pumps, pressure sand filters, ozone systems, protein fractionators, ultraviolet sterilizers, drum filters, bag filters, carbon filters, air blowers, air compressors, boilers, chillers, heat exchangers, and HVAC with cooling tower Calibrate and maintain a variety of handheld, bench top, and in situ instrumentation for measurement of seawater pH, temperature, oxidation-reduction potential (ORP), dissolved oxygen, salinity/conductivity, and total dissolved gases Respond to after-hours water systems and life support alarms, providing 24-hour facility alarm coverage 365 days per year
Other Duties and Responsibilities	
Knowledge, Skills and Abilities	Undergraduate degree in Engineering, Biological Science, or Chemistry or equivalent combination of education, training and experience 3 years experience in water treatment operations, life support, aquarium operations, or power plant operations. Problem solving skills Excellent communication and interpersonal skills Experience in plumbing and electrical design, assembly, and maintenance Working knowledge of aquariums (home or commercial) and design/function of aquatic life support system

components Working knowledge of life support system equipment operation and maintenance Working knowledge of techniques and instrumentation used in analytical seawater chemistry and microbiology Practical skills with hand and power tools used for light fabrication and mechanical maintenance Excellent laboratory skills Knowledge of automated controls, pneumatics, electro-mechanical and electro-optical devices Familiarity with OSHA safety guidelines Familiarity with three-phase 480V electrical systems and components Ability to prioritize work while multi-tasking, without immediate supervision Ability to analyze data quickly and translate data into operational decisions Ability to work independently and as part of a team Ability to work within, and maintain Monterey Bay Aquarium's Core Values

Education & Experienced Required

Licenses and Certifications Required

Physical Requirements

Forklift, van, hand and shop tools, laboratory tools (pipettes, spectrophotometer, etc), pullies, lifts, fine tools for instrumentation work Sitting, standing, walking several miles, climbing stairs, climbing ladders, reaching, pulling, pushing Occasional unassisted lifting up to 50 lbs, to include bags and large fish (tuna)

Working Conditions

Quarantine facility, mechanical rooms, outdoors, confined spaces, roofs, office

Salary

Respond To

Apply here: https://montereybayaquarium.snaphire.com/jobdetails?ajid=6Jhj8&fbclid=IwAR34qwf3vls6nyQPpbaknhLpuXhaHbDUZluPUIGk_XdUeZw9TQIAMZ5bKb0

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