

Job Posting

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Position	Applied Research Instrumentation Technician II
Facility	Monterey Bay Aquarium
Location	Monterey, CA
Job Summary	<p>The Applied Research Instrumentation Technician II takes primary responsibility for selection, installation, and maintenance of water quality monitoring sensors and instrumentation for the Monterey Bay Aquarium main seawater systems. Takes primary responsibility for operation and maintenance of the Splash Zone Water Play system, including water quality, instrumentation and equipment, and data summarization.</p> <p>Performs routine installation, calibration and maintenance of portable and stationary water quality sensors. Operates total dissolved gas meters and interprets data. Performs routine collection and analyses of water as related to water quality monitoring, life support system evaluation, and experimentation. Performs a wide variety of activities in support of the water quality effort, including maintaining computer databases, submitting routine data summaries, maintaining laboratory equipment and supplies, and assisting with other laboratory duties, including basic bacteriological analyses and nutrient testing. Assists AR and Facilities staff with design and implementation of life support and treatment systems - with focus on sensors and instrumentation. Assists with maintenance of Applied Research chemical inventory and Safety Data Sheet files. Assists Applied Research, other MBA staff, and outside researchers with equipment, instrumentation, and water quality monitoring. Works under the general supervision of the Water Quality Lab Manager.</p>
Essential Functions	<p>Selection, installation, and maintenance of water quality sensors and instrumentation</p> <p>Operation and maintenance of the Splash Zone Water Play Exhibit system, including water quality, instrumentation and equipment, maintenance of service area, and data summarization</p> <p>Routine installation, calibration, and maintenance of portable and stationary water quality sensors (e.g., pH, dissolved oxygen, oxidation-reduction potential, turbidity).</p> <p>Sensor maintenance and chemistry testing for the aquarium desalination plant. Responsible for ensuring water chemistry testing and sensor maintenance are conducted and logged at regular intervals. Works with System Operators to maintain desalination product water quality</p> <p>Operation and maintenance of total dissolved gas meters and interpretation of data. Maintains a working knowledge of total dissolved gas theory, measurement techniques, and de-gas methodologies</p> <p>Use of computers to interface instrumentation and for data logging, data reduction, and report preparation</p> <p>Maintenance water quality results databases from individual exhibits or projects</p>

	<p>Summarization and interpretation of data. Prepares graphic summaries and written reports.</p> <p>Oversight of annual service and calibration of scales and balances in Applied Research, Husbandry and Conservation Programs</p> <p>Assists with maintenance of analytical and laboratory equipment, including calibration and minor repairs</p> <p>Assists with routine inventory and maintenance of laboratory supplies, including ordering supplies</p> <p>Assists with maintenance of Applied Research Department chemical inventory, including chemical inventory database and Safety Data Sheet files</p> <p>Assists with training and supervision of MBA staff, interns, volunteers, and outside researchers/students</p> <p>Assists Applied Research staff in planning and developing new approaches/techniques in support of departmental goals</p> <p>Assists with MBA public relations and educational activities, such as providing information related to water quality and life support systems</p> <p>Performs other duties as assigned by Water Quality Lab Manager.</p>
Other Duties and Responsibilities	Desired Skills / Knowledge / Ability / Experience or Education
	<p>Master's degree or equivalent experience in chemistry, hydrology, environmental science, or related field</p> <p>Ancillary Responsibilities</p> <p>Performs routine collection and analyses of water as related to water quality, life support system monitoring, and experimentation, including nutrient and bacteria testing</p> <p>Assists with design and implementation of life support and treatment systems - with focus on sensors and/or total dissolved gases</p> <p>Assists with research and development on water quality and life support systems with focus on physical-chemical process and instrumentation (e.g., total dissolved gas regulation, carbon dioxide stripping)</p> <p>Assists with microbiological analyses, including coliform and enterococcus bacteria in water and air-spore fungi in MBA exhibits and visitor areas</p> <p>Assists with routine analyses of water for inorganic chemical parameters and physical measurements</p> <p>Assists Applied Research, other MBA staff, and outside researchers with water quality monitoring and other laboratory and research tasks</p>
Knowledge, Skills and Abilities	
Education & Experienced Required	<p>Bachelor's degree or equivalent experience in biology, chemistry, environmental science, hydrology, engineering, or a related field</p> <p>Two years of experience working with water quality sensors and instrumentation in the aquarium industry, water quality industry, laboratory, or the field</p>

	<p>Working knowledge of current techniques and instrumentation technology used in analytical seawater monitoring</p> <p>Working knowledge of measurement of pH, conductivity, total dissolved gas, turbidity, and other physical parameters in seawater</p> <p>Practical skills in electronics, instrumentation, and computer hardware</p> <p>Excellent laboratory skills</p> <p>Excellent organizational, problem solving, and planning skills</p> <p>Excellent communication and interpersonal skills. Ability to work independently and as part of a team</p> <p>Working knowledge of computers and software used for word processing and database management</p> <p>Practical skills with hand and power tools used for light fabrication and mechanical maintenance</p>
Licenses and Certifications Required	
Physical Requirements	
Working Conditions	
Salary	
Respond To	https://montereybayaquarium.snaphire.com/jobdetails?ajid=fVeY7&preview=m-EXTERNAL_ajid-fVeY7
Closing date	12/16/2016

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