

## Water Quality Engineer

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Company: European Association of Zoos and Aquaria

Location: united arab emirates

Category: other-general

To ensure a smooth and efficient operations of the SeaWorld Abu Dhabi facilities in Zoological Department by carrying out the tasks related to ALSS (Animal Life Support Systems); thus directly impacting the health and safety of animals, colleagues, contractors and guests, and Theme Park's operations. This position is responsible of the preventive, corrective and service maintenance of all ALSS equipment in the Field of Expertise; recommends necessary maintenance services in accordance to the ALSS SOPs and manuals, and ensures documentation of all technical activities are maintained. GENERAL SCOPE: Performs the assigned preventive, corrective and other maintenance services in a related field and ensures the timely completion of the tasks. Ensures all life support systems are operating within all environmental applicable regulations and permit conditions; maintains the water quality for the health of the animals, mammals, fish, and humans. Analyzes data provided by the controls system, meters, the laboratory, or other Animal Care staff, in order to troubleshoot water quality, flow or other systems problems. Performs various troubleshooting techniques related to field of expertise. Utilizes safe handling, storage and disposal practices for toxic substance and hazardous waste in accordance to company/department's SOPs and manuals. Maintains accurate logs of the maintenance activities and reports the status to the ALSS leadership team. Maintains cleanliness and organization of all chemical drums, storage areas and workstation. Maintains the department's tools, parts, materials and equipment inventory. Works in vaults, and other confined spaces, utilizing proper safety techniques and equipment. Completes all required trainings; maintains professional development and

competencies. Performs other duties assigned by the ALSS leadership.

**TECHNICAL SCOPE OF PUMP MECHANIC:** Inspects, diagnoses and performs major and minor repair works on all ALSS pumps, motors, hydraulic equipment, compressors, controls and related equipment; rebuilds equipment to manufactures specification. Conducts various analyses and inspections of mechanical systems to determine the most cost-effective means of maintenance, repair or replacements. Ensures the continuous operation of all saltwater, freshwater and water treatment systems.

**TECHNICAL SCOPE OF SYSTEMS AUTOMATION:** Conducts testing, troubleshooting, repairs and other maintenance services on a variety of low and medium voltage industrial electrical systems, components, Ozone generators, UV sterilizers, Level sensors, ORP and pH probes, motors and machinery. Installs, maintains, repairs and calibrates a wide variety of ALSS electronic recording and indicating instruments. Maintains, monitors, and operates the automated life support systems and water treatment facilities. Installs conduits, wires, pull boxes required in making additions, extensions or alterations in electrical systems.

**TECHNICAL SCOPE OF FILTRATION MECHANIC:** Monitors real-time water quality and systems trends provided by a computer based controls systems and responds to alarms or out-of-range trends. Responsible for the draining, filling and isolation of all habitats, holding pools, decretive pools and waterfalls. Makes adjustments and additions to maintain water balance in accordance with corporate and local regulating authority requirements. Performs filter, pump, valve, and piping maintenance and repairs. Performs proper water chemistry testing and understands the results as it pertains to all systems; takes appropriate actions as necessary.

To be considered for the role, you will need to have: Diploma related to technical qualification. 3 years of related experience or equivalent combination of education and experience. Basic English communication skills, verbal/written Excellent troubleshooting skills in a related field Working knowledge to all basic hand tools and measuring devices in a related field Basic computer skills including MS Office applications (Word, Excel)

**Pump Mechanic:** Demonstrated mechanical/technical knowledge in ALSS, Public Pools or Waste Water Treatment Working knowledge of mechanics; motors, hydraulics, centrifugal and vertical pumps, compressors and liquid metering pumps Able to interpret pump curves Able to diagnose and repair a verity of pump problems, from primary issues and cavitation to excessive vibration. Systems Automation: Demonstrable knowledge of electronic based controls and programming ability Working knowledge of electronic controls systems and telemetry equipment Working knowledgeable on the methods of installing, calibrating, trouble shooting and repairing control

systems and instruments. Able to interpret electrical drawings, schematics and symbols  
Filtration Mechanic: Working knowledge pertaining to the operation, troubleshooting of, maintenance and repairing various types of small pumps and related equipment Working knowledge of automated controls, pneumatics, electro-mechanical devices. Working knowledge of mechanical, chemical, and biological filtration as it applies to animal life support systems. Able to interpret PID layout of systems and have a solid understanding of pipe installation.

#J-18808-Ljbffr

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