

Life Support Systems (LSS) Expert

About us: OCEAN BERLIN is currently being developed as a state-of-the-art marine experience center directly in Berlin-Lichtenberg. As part of the Coral World International Group, OCEAN BERLIN brings the beauty and fragility of the ocean to life. Spectacular underwater worlds meet cutting-edge coral research, a sustainability center, and educational exhibition areas.

With around 1 million guests per year, OCEAN BERLIN will rank among Berlin's top attractions and will offer extensive programs for schools, groups, and events.

Protecting the ocean begins on land. And together, we give the ocean a voice.

Position Overview

Ocean Berlin is looking for an experienced and technically skilled **Life Support Systems (LSS) Expert** to support the operation, maintenance and continuous optimization of our complex aquatic life support and water treatment systems.

The LSS Expert will play a key role in ensuring stable and reliable water conditions throughout the facility and will work closely with the Curatorial, Animal Welfare and Technical teams.

We are looking for a hands-on technical professional with strong experience in the **operation, maintenance and troubleshooting of water treatment systems**. Previous experience in aquariums or aquatic facilities is highly desirable, but not essential. Candidates from industrial water treatment, wastewater treatment, process engineering or comparable technical environments are also encouraged to apply.

Key Responsibilities

Life Support Systems Operation

- Operate and monitor Life Support Systems (LSS) and associated water treatment equipment.
- Ensure reliable and continuous operation of systems supporting aquatic habitats.
- Monitor system performance, operating parameters, alarms and trends.
- Identify deviations and take appropriate corrective action.
- Support the optimization of system performance, reliability and energy efficiency.

Maintenance & Troubleshooting

- Perform preventive and corrective maintenance on LSS and water treatment equipment.
- Diagnose and troubleshoot mechanical, electrical and control-related system faults.
- Inspect, maintain and troubleshoot equipment including:
 - pumps and motors
 - mechanical and biological filtration systems
 - valves and pipework
 - water analyzers, sensors and probes
 - dosing systems
 - industrial controllers and control systems
 - associated water treatment equipment
- Support emergency troubleshooting and restoration of critical systems.
- Maintain accurate maintenance and service documentation.

Water Treatment & Monitoring

- Support the monitoring and control of relevant water quality parameters.
- Ensure correct operation and calibration of water quality analyzers and monitoring equipment.
- Identify technical causes of water quality deviations and support corrective measures.
- Work closely with the Curatorial and Animal Welfare teams to ensure that technical systems consistently meet the requirements of the animals and habitats.

Commissioning & Continuous Improvement

- Support commissioning, testing and optimization of new or modified LSS equipment.
- Participate in system performance testing and technical inspections.
- Identify opportunities to improve system reliability, maintainability and operational efficiency.
- Support the development and continuous improvement of operating procedures, preventive maintenance schedules and emergency procedures.

Qualifications & Experience

- At least **2–3 years of professional experience in water treatment systems**, with a strong focus on operation and maintenance.
- Experience in aquariums, aquaculture or other aquatic facilities.
- Practical experience with pumps, filtration systems, water analyzers, sensors, valves and associated equipment.
- Experience operating and troubleshooting **industrial controllers and automated control systems**.
- Strong mechanical and technical troubleshooting skills.
- Ability to systematically identify faults and implement practical solutions.
- Experience from industrial water treatment, wastewater treatment, process engineering or similar technical environments is highly relevant.
- Technical qualification or vocational training in water treatment, mechanical engineering, electrical engineering, process technology, mechatronics or a comparable field is desirable.
- Ability to read and understand technical documentation, operating manuals and system diagrams.
- Good communication skills and the ability to work effectively across technical and biological disciplines.
- Reliable, safety-conscious and comfortable working in a technically complex operational environment.

What We Are Looking For

We are looking for someone who enjoys understanding how complex systems work – and who does not stop at an alarm message but wants to understand **why** the alarm occurred.

The ideal candidate combines practical technical skills with structured problem-solving and understands that reliable Life Support Systems are fundamental to animal welfare and the successful operation of Ocean Berlin.