



### **Autonomous Systems Operations Engineer (Software)**

The Division of Marine Operations manages and operates ocean-going platforms for the Monterey Bay Aquarium Research Institute, including two ROV-equipped ships, small boats, moorings and a variety of submerged and surface-bound autonomous vehicles. Our work enables research in chemical, physical, and biological oceanography. The contributions of the incumbents will have a lasting impact on the ongoing mission of MBARI's ocean research program, facilitating discoveries at the edge of technology and human exploration. If you have the interest and experience to contribute to our work, then we would be excited to have you join our team.

Founded in 1987 by the late David Packard, MBARI is a non-profit, private oceanographic research institute. Located in Moss Landing, California, near the heart of the Monterey Bay, this unique location provides direct access to the deep waters of the Monterey Canyon. Our marine operations division supports two ocean-going vessels, a smaller day boat, and a wide variety of Remotely Operated Vehicles (ROVs) and Autonomous Underwater Vehicles (AUVs). MBARI is near Monterey and Santa Cruz, as well as the Big Sur coast.

This particular position ensures that MBARI's Autonomous Undersea Vehicles (AUVs) and Autonomous Surface Vehicles (ASVs) operate in a reliable and effective manner. The incumbent assists in design, development, testing, and operation of these vehicles.

#### **Job Duties and Responsibilities:**

The incumbent will work on various tasks supporting the development and maintenance of MBARI's fleet of autonomous underwater and surface vehicles including Dorado-class deep water AUVs, Tethys-class Long Range AUVs, and Liquid Robotics Wave Gliders. These tasks involve creation of software drivers for scientific instruments, development of vehicle flight and support code as well as operating and improving a large array of top-side software tools for preparing and running vehicles, data processing as well as acoustic undersea tracking and communications. Additional focus is on writing microcontroller firmware for a vast range of use cases (battery management, servo control, environmental monitoring, etc.).

The incumbent will also assist in the deployment of vehicles at sea locally in Monterey Bay and during expeditions all over the globe. Responsibilities during deployments include mission planning, vehicle checkouts, battery management and data offload.

The position requires the willingness and ability to go to sea and work offshore for up to 6 weeks at a time.

Please submit your application material by e-mail to [jobs@mbari.org](mailto:jobs@mbari.org), or by mail to the below address, or by fax to (831) 775-1620.

MBARI, Human Resources

Job Code: **ASOE**

7700 Sandholdt Road

Moss Landing, CA 95039

MBARI offers a competitive compensation and benefits package, including medical, dental, vision, short and long term disability, life insurance, 403B retirement plan, and paid time off, such as vacation, holiday, and sick leave.

MBARI is an Equal Opportunity Employer. MBARI considers all applicants for employment without regard to race, color, religion, sex, sexual orientation, gender identity or expression, marital status, national origin, age, disability, covered veteran status, or any other characteristic protected by federal, state, or local laws.

**EOE**

**MBARI Welcomes Diversity**