



charles river analytics

MARINE SYSTEMS

Marine Systems Integration and Test Facility

Our dedicated Marine Systems Test Facility provides year-round access to littoral testing waters in the Point Judith Harbor of Refuge and Block Island Sound in Rhode Island.

We support full-spectrum marine testing, including:

- Deployment evaluation of UUVs (3–30 feet in length) and USVs
- Assembly, transport, and maintenance of ruggedized and underwater sensor systems
- Integration and testing of surface platforms and underwater devices

Advanced Maritime Prototyping

Beyond testing, our engineers design and build custom prototypes and integration solutions for complex maritime applications.

Our capabilities include:

- UUV communications, navigation, and control integration
- Ruggedized and waterproof electronics assembly
- Design and fabrication of depth-rated subsea pressure vessels
- Electrical and mechanical systems for underwater platforms
- Launch and recovery system design and support
- Sensor payload integration and scientific test rigs

In-house fabrication and integration allow us to move quickly from concept to sea trial—reducing risk and accelerating development timelines.

We don't make your UUV—we make your UUV better.

Charles River Analytics provides engineering and testing support for intelligent maritime systems and ocean robotics.



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With more than a decade of hands-on maritime R&D experience, we specialize in rapid integration and in-water testing.





Point Judith Facilities

Located at Point View Marina, our Marine Systems facility combines advanced engineering resources with direct ocean access. Configurable workspaces support rapid assembly, integration, and secure storage of large systems.

Key resources include:

- **Engineering design center and electronics lab**
- **6,500 square feet of workshop and warehouse space, including a 4,000-square-foot high-bay warehouse**
- **Dockage and haul-out support for vessels up to 100 ft. / 70 tons**
- **Immediate access to coastal and offshore test environments**

In-water testing and evaluation is central to our mission. With thousands of hours at sea, we specialize in rapid integration, risk reduction, and validation for next-generation maritime autonomy.

Engineering Proven at Sea

We unite deep technical engineering with real-world maritime operations.

Our cross-disciplinary team members—including licensed mariners and experienced UUV and USV operators—design, integrate, and test systems in the environments where they will be deployed.

Our work ensures that emerging technologies perform reliably at sea—not just in the lab.



Partner With Us

From advanced prototyping to rigorous test programs, Charles River's Marine Systems team bridges development and deployment—so your technology is mission ready.



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MARINE SYSTEMS

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