



Your partner in discovery, innovation, and solutions

Scientific breakthroughs and novel solutions rarely come easily. This is especially true for marine and freshwater sciences, which often require highly specialized instruments paired with the expertise to use them.

At Bigelow Laboratory, we make our equipment, capabilities, and knowledge available to researchers, private institutions, and customers around the world. We can help accelerate your science and ensure the highest quality results.

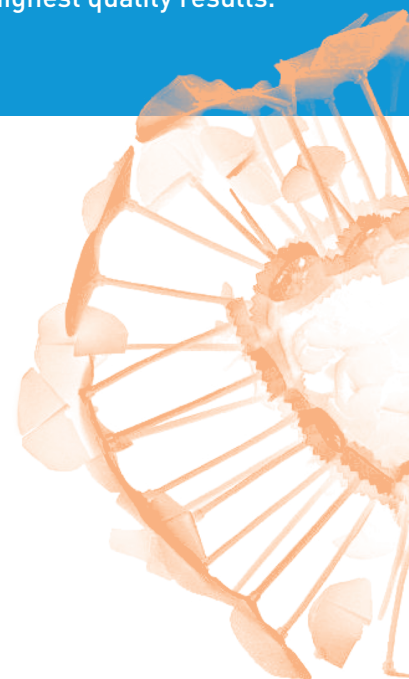
ANALYTICAL SERVICES

State-of-the-Art Science Support: Bigelow Laboratory offers a broad suite of analytical services to public and private entities in various fields, including marine chemistry, aquaculture, pharmacology, and fisheries.

Whether you're enumerating plankton, analyzing chemical compositions, monitoring shellfish toxins, or quantifying nutrients or pollutants, our experienced scientists provide the highest-quality testing in a timely manner.

WE OFFER A RANGE OF ANALYSES ON ADVANCED INSTRUMENTATION, INCLUDING:

- **Biological Analyses:** High-resolution assessment of microbial, phytoplankton, and zooplankton communities in marine and freshwater environments. *Contact services@bigelow.org.*
- **Biotoxins and Bio-contaminants:** Early detection and monitoring of HAB toxins — such as PSP, ASP, DSP, and microcystins — as well as microbial pathogens and their sources (human, animal, etc.). *Contact bas@bigelow.org.*
- **Bromoform and Dibromomethane:** Advanced, accurate halocarbon quantification of bromoform, dibromomethane, volatile halocarbons, and bromine and iodine across diverse biological and environmental matrices. *Contact bas@bigelow.org.*
- **Compositional Analysis:** Determination of ash content, caloric value, macronutrient profiles (carbohydrates, proteins, fats), elemental composition, fatty acid signatures, and stable isotopes. *Contact bas@bigelow.org.*
- **Nutrients:** Estimation for both high- and low-nutrient environments, including dissolved and particulate forms of inorganic and organic carbon, nitrogen, and phosphorus. *Contact services@bigelow.org.*
- **Trace Elements and Heavy Metals:** Quantification of essential elements and potentially toxic metals in water. *Contact services@bigelow.org.*
- **Environmental DNA/RNA (eDNA/eRNA) and Molecular Profiling:** Detection, tracking, and understanding of biological activity and potential function in aquatic systems with high sensitivity and resolution. *Contact services@bigelow.org.*
- **Pollutants:** Characterization and quantification of pollutants, including PFAS, petroleum hydrocarbons (SARA, PAHs, alkanes), and PCBs across a wide range of matrices to support environmental monitoring, risk assessment, and remediation planning. *Contact pfas@bigelow.org.*





BIOLOGICAL MATERIAL DEPOSITS

Safe, Secure, and Confidential: Whether you need to cryopreserve your biological material for the purpose of patent procedure or would simply prefer to store it outside of your existing lab, our state-of-the-art facility in East Boothbay, Maine, and dedicated resources will exceed your expectations. *Contact ncma@bigelow.org.*

CONTRACTUAL RESEARCH

Partner-Driven Science: We partner with academia, industry, government, and nonprofits to design tests, develop new methodologies, and independently evaluate product performance. Our scientists provide customized research services, applying our multidisciplinary expertise to deliver reliable and actionable results. *Contact services@bigelow.org.*

CULTURE COLLECTIONS AND RESOURCES

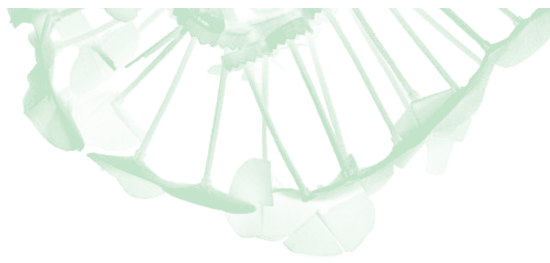
Curating Algae, Creating Potential: Algae and other microscopic life hold limitless potential to transform the way we feed the world, cure disease, and build a sustainable future. Our team has access to one of the most genetically diverse collections of algae on the planet and the knowledge and tools to help you tap into its power. *Contact ncma@bigelow.org.*

EXPERT CONSULTATION

Our Experience, Your Advantage: Our scientists work with a diverse set of clients to develop practical, data-driven solutions to complex ocean, aquaculture, climate, and biotechnology challenges. Whether optimizing algal growth systems or deploying advanced monitoring tools, we provide tailored support backed by world-class expertise. *Contact services@bigelow.org.*



Visit bigelow.org/services



FACILITIES AND VESSELS

Purpose-built for Education, Innovation, and Discovery: Our seaside campus in East Boothbay, Maine, is an ideal location for everything from scientific and educational pursuits to research on the water in the Gulf of Maine. We make our facilities, science classrooms, meeting spaces, and vessels available to customers and collaborators alike. *Contact services@bigelow.org.*



MICROBIAL SINGLE CELL GENOMICS

Decoding Life One Cell at a Time: The Single Cell Genomics Center (SCGC) investigates the genomic blueprints of the most fundamental unit of microbial life — individual cells — without the need for cultivation. This powerful approach is used to analyze the ecosystem impacts, evolutionary histories, and biotechnological potential of uncultured microorganisms, which constitute over 99% of biological diversity on Earth. *Contact scgc@bigelow.org.*

PROFESSIONAL DEVELOPMENT

Learn Cutting-edge Science from World-class Scientists: We offer a suite of hands-on professional development courses taught by leading experts and designed for scientists, technicians, managers, students, and community members seeking to advance their skills and knowledge in marine and environmental sciences. *Contact services@bigelow.org.*

