



**Principal Marine Science Instructor
Weekly Teaching Position 2024**

Weekly Position: June 24 to August 16, Eight (8) One Week Marine Science Topic Sessions (at the bottom of this page we refer to where to find detailed descriptions)

Work Schedule: Monday – Friday starting at 7:45 am —5:00 pm* with July 4 Holiday **work required**

Compensation/Week: \$1,950.00 (includes documented 10 hours Topic prep-time - applicable to professional contact hours as allowed)

* As this is a salaried position, the workday may extend beyond 5:00 pm.

Housing Available

*The **mission** of the Boothbay Sea and Science Center is the advancement of sailing, boating and ocean sciences by minimizing economic and physical obstacles and further to develop independence, self-confidence, teamwork and volunteerism in the participants. To inspire individuals to strengthen themselves and their community through the enjoyment of the sea. BSSC's **vision** is to provide a community sea and science education center that offers equal and affordable access to the waterfront for youth through sailing, boating, and marine science experiential learning programs and activities not provided by other regional organizations.*

BSSC is seeking individuals to teach weekly marine science topics who have experience in and passion for teaching youth of all ages in the classroom and/or in outdoor settings. During selected week(s)*, this position will be responsible for implementing BSSC's curriculum of marine science related educational topics with assistance from the Principal Waterfront Instructor, Sailing and Science Instructors. The Principal Marine Science Instructor will add to and further develop existing marine science curriculum materials and is encouraged to incorporate new educational materials and hands-on experiential learning activities related to the topic taught during that weekly program. This position will co-lead the weekly staff meeting with the Principal Waterfront Instructor to assign tasks to staff and schedule activities; will enforce BSSC policies and safety procedures; will manage day to day operations related to implementing the marine science curricula and activities in the classroom or out on the water; and is responsible for summarizing highlights at the end of each week and contributing to articles for the local papers and social media.

*See topics and corresponding weeks at the end of this description.


General Duties and Responsibilities:

- Teach the week-long marine science curriculum topic(s), as contracted, that includes daily hands on experiential activities on and off the water.
- Collaborate with the Principal Waterfront Instructor on all daily activities to carry out the marine science curriculum program goals.
- Supervise and Assign daily tasks to staff; Science Instructors, Apprentices, and Volunteers.
- Attend a weekly meeting with the President/Executive Director and Principal Waterfront Instructor to coordinate activities and schedule on and off the water activities.
- Oversee maintenance of all science equipment including daily cleaning, document necessary repairs and weekly inspections of those items used during the week.
- Attends BSSC staff meetings and assist with regularly scheduled BSSC events during employment, including but not limited to: Friday cookouts, evening socials, fundraising events, and any other activities that enhances family participation.
- Completes and submits to the Executive Director participant Evaluations, all weekly program modules, curriculums, and equipment inventory on the last day of employment.

Minimum Qualifications:

- Bachelor's degree in Marine Science, Biology, Oceanography or a related Science
- Two years teaching experience (K-12, minimum) or equivalent experience
- Current First Aid, CPR and AED Certifications (required prior to the start of employment) *

Preferred Qualifications:

- Teaching Certification or equivalent
- Master's degree or other in marine science, Biology, Oceanography or a related Science
- SafeSport Certification (www.ussailing.org)
- National Association of State Boating Law Administrators Boat Safety (www.boatus.org/maine/) 

*BSSC will reimburse partial (50%) Certification Fees (if applicable and only upon successful completion of the course)

Other:

All BSSC staff are required to undergo a mandatory background check and agree to the terms and conditions of BSSC's Code of Conduct (COC) - and is always mindful that all staff and participants are adhering to the same standards of behavior set forth in the COC document. BSSC staff are required to attend staff orientation that includes Sexual Harassment Prevention and Implicit Bias training programs. The BSSC has a zero tolerance policy for drugs during work hours. Any such use during the workday or during a trip with participants will result in immediate termination of the employment contract and suspension of further payments/salary from the Boothbay Sea and Science Center.

Application for Employment: www.boothbayseaandsciencecenter.org

Contact: Please send a cover letter, resume, and the BSSC Application for Employment that includes 3 references to: Pauline Dion; info@boothbayseaandsciencecenter.org

BSSC is an Affirmative Action/Equal Opportunity Employer

BSSC - P.O. Box 332 - East Boothbay, Maine 04544 - 207.350.5357 - www.boothbayseaandsciencecenter.org

TOPICS SUMMER 2024

Each topic includes weather forecasting, basic sailing and boating skills, local marine life, and responsible marine stewardship.

Week 1: June 17

Ship to Shore: Discovering BSSC

Students will experience a sampling of BSSC's summer 2024 on and off the water program. Students will explore tide pools, learn about what lies between the surface and the seafloor, sail, row, kayak, fish, and get wet all while having tons of fun!

Week 2: June 24

The Sea that Feeds Us

Students will learn from fisherman, aquaculturists, and scientists about the benefits of farming the ocean. We will gain a better understanding of sustainability and what is meant by "sustainable fishing" and "responsible ocean stewardship." Students will explore what lies between the surface and seafloor and how we've come to depend on what lives there. Students will learn how scientists estimate marine populations in order to determine their need to be protected and we will investigate the rules that regulate those that make their living from the sea.

Week 3: July 1

The Great Escape

Students will study where plastic debris comes from and how marine debris makes its way into the ocean. They will develop a "trash story" for a piece of one-time-use plastic and present the story from its origin to its eventual destination near BSSC. This session seeks to answer questions such as: What are the things that we cannot see by just looking at the water? How do these things affect the animals that live there?

Week 4: July 8

Weather or Not

Students will learn about clouds and the typical weather that they produce. Students will gain a better understanding of the difference between climate and weather and human impact. We will talk about how weather influences day-to-day activity on and off the water at BSSC and make weather predictions using the clouds. In this session students will also gain a better understanding of the many ways that they are connected to the ocean through the air that they breathe, the food that they eat, and the CO₂ that they create.

Week 5: July 15

Sea and Science

Students will learn about how a boat floats, build their own model boat, and gain an understanding of the types of boats used at BSSC. Students will use sailing techniques and seamanship skills to learn how ocean data can change based on sampling techniques and

location. Students will also learn about the different types of data that can be collected in the rocky intertidal or at the beach and the best way to interpret and display that data.

Week 6: July 22

Getting Wise to the Rise

Students will gain a better understanding about how the tides are influenced by gravity and the position of the moon to the Earth. They will learn about the impact that sea level rise has on communities along the waterfront. We will create tide charts and learn how climate change and CO2 production impacts the ocean and the animals that make it their home. We will learn about estuaries and watersheds. Students will also have a chance to mark the high and low tide in the BSSC tide pools and monitor how they change each day.

Week 7: July 29

Sweeping the Sea

Students will explore the different technologies that are helping to remove marine debris. Students will learn about the breakdown of plastic in the marine environment, and the contents of the Great Pacific Garbage Patch. We will kick our creativity into high gear and design mock-ups of equipment that could help clean up the “trash” in the ocean. And we will continue to focus our attention on intertidal clean-ups.

Week 8: August 5

How We Kelp the Ocean

Students will learn about the difference between micro and macro algae and explore shoreside the different types of seaweed growing in Maine waters. We will study the structure of seaweed and the characteristics of echinoderms that make it their home. Students will gain a better understanding about Maine’s growing seaweed farming industry. And we will seek to answer the question: “Why is seaweed so important”?

Week 9: August 12

Voices of The Sea

Through conversations with shipwrights, marine engineers, marine architects, musicians, and writers, students will gain a greater understanding of Maine’s rich history of shipbuilding, marine art, storytelling, and music. During this session students will work side-by-side with a local artist exploring different types of media. And we will learn about the difference between art forms and scientific illustrations.