



# EDUCATIONAL ASSISTANT

## ABOUT THE ORGANIZATION:

Through a bold plan conceived in concert with the community, AltaSea is making a lasting mark on the future of Los Angeles and the planet through a unique public private ocean institute that joins together the best and brightest in exploration, science, business and education. The emphasis on creating public-private collaborations sets the organization apart. It is from these intersections that innovation is born, and from innovation comes groundbreaking impact.

## DESCRIPTION:

The intern would support the education department, working directly under the supervision of the Marine Energy and Exploration instructor. The intern must be self-motivated and work independently to get projects completed.

Major responsibilities include:

- Assisting with on-site field trips
  - Setting up robots and leading tours
- Organizing educational materials
- Organize and create curriculum activities
- Working on an energy demonstration system and installing hydroelectric and wind turbines
- Creating educational kits and student materials
- Maintaining the underwater robots and performing some troubleshooting
- Maintain and monitor tanks for aquaculture and energy systems
- Serve as a judge for student project pitches

## DESIRED EXPERIENCE:

The ideal candidate would have an interest in pursuing an educational career.

- Basic knowledge of electronics
- Working with students is a plus!
- Some soldering skills are also a plus!

## WORKING CONDITIONS:

- Occasional lifting up to 25 pounds
- Some days include extensive walking across the campus.
- Occasionally working on barge outside, including walking up and down barge gangway.

## SCHEDULE:

- On-site
  - Flexibility Mondays, Wednesday, and Friday during business hours, 9 am-5 pm
  - Required onsite for field trip days (Tuesdays, Thursdays: 9a-1p)



# ENTRY-LEVEL HATCHERY TECHNICIAN INTERN



## ABOUT THE COMPANY:

Holdfast Aquaculture, Inc. is a hatchery and seed company for the growing sustainable aquaculture industry. Promoting a healthy planet and healthy people are core values in our mission to support sustainable food systems. We use innovative land-based Recirculating Aquaculture Systems to maximize control and densities while reducing inputs and waste, and specialize in low-trophic species such as seaweeds and bivalves (arguably the most sustainable sources of protein on the planet). We work on both commercial and R&D projects to close the gap between research and best industry practices, and are the first hatchery in Southern California to introduce locally sourced and native species for aquaculture production. We also work with a number of partners to promote market growth, workforce training, education, social license and equitable access.

## DESCRIPTION:

We are seeking a motivated and enthusiastic Entry-Level Hatchery Technician Intern to join our team for this term. This internship provides a hands-on opportunity to learn about shellfish aquaculture and contribute to sustainable seafood production. Ideal candidates are passionate about marine life and excited to work in a hatchery environment.

As an intern, you will:

- Gain hands-on experience in shellfish aquaculture operations
- Perform basic husbandry tasks to support the health and growth of shellfish
- Clean and maintain hatchery tanks, systems, and equipment
- Assist in monitoring water quality and observing shellfish health
- Help ensure all hatchery workspaces are clean, safe, and organized
- Support hatchery staff with additional tasks as needed
- Participate in a physically active work environment, including lifting up to 45 pounds

The candidate must be available at least one day during the weekends.

## DESIRED EXPERIENCE:

- Strong interest in aquaculture, marine biology, environmental science, or a related field
- Previous experience in a hatchery or marine setting is a plus, but not required
- Ability to work up to 20–40 hours per week, including at least one weekend day
- Comfortable working in a wet and physically active environment
- Capable of lifting and carrying up to 45 pounds
- Detail-oriented with the ability to follow instructions and protocols accurately
- Able to work independently and as part of a team

## SCHEDULE:

- Must be available at least one day during the weekend (either Saturday or Sunday)
- This location is **not** at AltaSea.
  - Work will be done **in person at 2206 Signal Pl., San Pedro, CA 90731**



# FACILITIES INTERN

## ABOUT THE ORGANIZATION:

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## DESCRIPTION:

The Facilities intern will support the day-to-day operations of AltaSea's waterfront campus.

This position is designed for a hands-on learner who is interested in facilities operations, marine-related work environments, project coordination, safety practices, and the practical skills needed to maintain a dynamic nonprofit ocean innovation campus.

Responsibilities include:

- Assisting the Facilities team with routine campus maintenance, inspections, organization, and general upkeep.
- Support hands-on projects involving basic repairs, cleaning, moving materials, space setup, inventory, and facility readiness.
- Learn and use Asana to track tasks, update project status, document progress, and communicate completion of assigned work.
- Participate in marine-adjacent facilities work, including support around waterfront areas, equipment staging, tenant spaces, dockside logistics, and safety-focused operations.
- Receive supervised exposure to forklift operations, including safety practices, pre-use checks, load awareness, and proper procedures; [operation may be limited to trained and authorized individuals only](#).
- Assist with deliveries, warehouse organization, supply tracking, tool organization, and preparation of materials for facilities projects.
- Help maintain safe, clean, and functional work areas in accordance with AltaSea policies and supervisor direction.
- Support event and tenant needs by assisting with room setup, equipment movement, signage, access coordination, and post-event reset.
- Report maintenance concerns, hazards, damaged equipment, or needed supplies to the Facilities team promptly.
- Perform other basic facilities duties as assigned.

## DESIRED EXPERIENCE:

- Interest in facilities, operations, maintenance, marine environments, construction, logistics, or hands-on technical work
- Willingness to learn, follow directions, ask questions, and take initiative
- Comfort working indoors and outdoors in an active waterfront campus environment
- Basic computer skills, strong attention to detail, reliability, punctuality, and respect for safety procedures
- Ability to work safely around tools, equipment, vehicles, warehouse areas, and marine-adjacent spaces
- Ability to lift, carry, move, or organize materials as appropriate for the assignment
- No prior facilities or forklift experience required. Training and supervision will be provided as appropriate.

## WORKING CONDITIONS:

This position is primarily on-site and may include work in offices, warehouse areas, event spaces, outdoor waterfront areas, tenant spaces, and active facilities zones. The intern may be asked to stand, walk, bend, carry materials, use basic hand tools under supervision, and work around operational equipment. Personal protective equipment may

## SCHEDULE:

All work takes place in person at the AltaSea campus (2451 Signal St., San Pedro, CA 90731)

- Flexibility during normal business hours, 9a-5p, Monday-Friday; Some weekends or after-hours events may be required.



# LAB INTERN

sperra

## ABOUT THE COMPANY:

Sperra Technologies is a climate tech start-up dedicated to making renewable energy cheaper and more available using automated concrete manufacturing technologies. Join us and help transition the world to low-cost renewable energy from wind, waves, and solar!

## DESCRIPTION:

This role is an opportunity for students to gain hands-on experience in research & development (R&D) of 3D-printed projects. This role introduces students to R&D product testing that meets state and federal regulations as outlined by government-funded grants.

Students also gain communication experience. You will contribute to local & global outreach efforts through social media, content creation and marketing, or in-person through educational outreach.

Daily responsibilities include:

- General concrete lab/workshop tasks and maintenance
- Film/editing of videos and presentations
- Presentations and demonstrations to K-12 students during field trip visits

Please note that responsibilities are subject to change and are dependent on the student's educational background & interest.

## DESIRED EXPERIENCE:

- Engineering or workshop trades discipline is preferred
  - Civil, construction materials, mechatronics, mechanical, robotics
- Desirable
  - Software editing in PowerPoint, Canva, Google Slides
  - Interest in 3D printing & design

The ideal candidate will have an interest in hands-on experience in an engineering lab.

## WORKING CONDITIONS:

- Expected to be able to lift 50lb cement bags when needed
- Steel toe shoes work in lab (available in lab)
- Clothes that you don't mind getting dirty
- Walking and standing for some extended periods of time

## SCHEDULE:

- Flexible during business hours, 9:00 AM – 5:00 PM Monday–Thursday
- If no lab work is required, tasks can be assigned.



# LABORATORY TECHNICIAN



## ABOUT THE ORGANIZATION:

Kelp Ark is a nonprofit organization dedicated to the conservation of seaweed. Our mission is to preserve the biodiversity of seaweed (or macroalgae) by establishing and maintaining an ex-situ seed bank of seaweed species. We further our mission by developing resources and technology to serve as a seaweed hub and resource base for farmers, restorationists, and scientists to better serve our oceans. We are also dedicated to serving our community via ocean and aquaculture education and ocean food literacy prioritizing outreach to underserved populations.

## DESCRIPTION:

Working under the supervision of the Collection Curator, Michael Marty-Rivera, the Laboratory Technician will assist with the establishment, maintenance, and documentation of kelp gametophyte (seed) cultures. This role is central to Kelp Ark's mission to preserve kelp biodiversity for research, aquaculture, and restoration.

### Primary Responsibilities:

- Assist with the establishment, maintenance, and propagation of kelp gametophyte cultures for Kelp Ark seedbank.
- Monitor culture health and perform routine care and maintenance of living collections.
- Prepare culture media, solutions, and laboratory materials according to established protocols.
- Maintain sterile laboratory techniques to prevent contamination.
- Operate and maintain accurate laboratory records.
- Enter collection, culture, and experimental data into Kelp Ark database.
- Assist with inventory management of laboratory supplies and biological collections.
- Clean and organize laboratory workspaces while maintaining compliance with laboratory safety standards.
- Support additional laboratory and collection management activities as assigned.

## QUALIFICATIONS:

### Required:

- College coursework in Biology and Chemistry
- Previous laboratory experience through coursework, research, or employment
- Familiarity with microscope operation and specimen observation
- Knowledge of general laboratory safety procedures and standard laboratory protocols
- Strong organizational skills and attention to detail
- Ability to accurately record and manage scientific data
- Ability to work independently while following established procedures
- Strong communication and teamwork skills

### Preferred:

- Coursework or experience in Marine Biology; Coursework or experience in Microbiology
- Experience working with algal cultures, aquatic organisms, or plant tissue cultures
- Demonstrated interest in marine conservation, ocean science, or environmental stewardship

In addition to a resume/CV, applicants must also submit a letter of recommendation from a faculty member, research supervisor, employer, or other professional reference familiar with the applicant's laboratory, academic, or professional experience.

## SCHEDULE:

- In-person at the AltaSea campus in San Pedro, CA
- Monday through Friday, 9:00 am - 5:00 pm
- Flexibility based on the intern's availability and project deadlines
- Occasional evening or weekend work for events and fundraising campaigns



# OCEAN INSTITUTE & COMMUNITY LEARNING LAB



## ABOUT THE ORGANIZATION:

Chadwick Institute: A groundbreaking program igniting a lifelong passion for ocean exploration, research, discovery, and stewardship for K-12 students.

## DESCRIPTION:

The Chadwick Ocean Institute at AltaSea is seeking a motivated and creative summer intern to support the development of an Ocean STEAM Makerspace and Community Learning Lab. This internship is ideal for students or emerging professionals interested in ocean education, design, technology, and community engagement.

This position offers hands-on experience at the intersection of ocean literacy, technology, engineering, and creative design, while supporting programs that engage youth and communities in ocean learning.

The intern will work closely with the education team to help build & equip a 3D printing and digital fabrication lab, develop Ocean STEAM education curriculum, and contribute to the creation of innovative learning tools and educational products that connect ocean science, engineering, and design. Responsibilities include:

- Assisting in setting up and organizing Community Learning Lab and makerspace
- Support the installation and testing of 3D printers, digital design tools, and fabrication equipment
- Help develop systems for managing tools, materials, and maker projects
- Assist with documentation and instructional guides for lab equipment
- Help design and prototype ocean-themed educational models and tools using 3D design software
- Support the creation of printable files that can be used in Ocean STEAM activities
- Assist in aligning curriculum with educational standards and ocean literacy principles
- Contribute to the development of educational products, kits, and learning tools connected to ocean science and sustainability
- Support the design of activities for workshops, camps, and school programs
- Assist with documentation, photography, and content that showcases the learning lab and its activities
- Participate in brainstorming sessions to develop new educational initiatives and community programs

## DESIRED EXPERIENCE:

- Interest in ocean science, environmental education, or marine biology
- Experience or interest in makerspaces, fabrication labs, or hands-on learning environments
- Interest or experience with 3D printing or digital fabrication tool is desirable, but not required
  - Interest in 3D design software (Fusion 360, Tinkercad, Blender, etc.) is a plus!
- Strong creativity and problem-solving skills
- Interest in STEM/STEAM education and community engagement
- Ability to work independently and collaboratively

## SCHEDULE:

AltaSea Campus, Berth 60

- Flexible hybrid hours



# PILOT OPERATIONS SUPPORT

*Ucla*  
**Equatic**

## ABOUT THE COMPANY:

The world faces two unprecedented challenges: reducing reliance on fossil fuels and removing legacy carbon emissions from the atmosphere. Equatic is the only carbon removal company that tackles both. Created from more than a decade of research and development at UCLA's Samueli School of Engineering, the patented technology accelerates the ocean's inherent ability to absorb and permanently store massive amounts of carbon while simultaneously producing carbon-negative hydrogen. Mobilizing Equatic technology at commercial scale will help solve the world's most urgent climate challenge, while creating immense value for industries and communities

## DESCRIPTION:

Interns at the UCLA/Equatic pilot will have the unique opportunity to gain hands-on experience in cutting-edge electrochemical carbon dioxide removal technologies.

Interns will develop skills in: Operating and troubleshooting advanced electrochemical systems | Understanding and applying process optimization techniques in a real-world setting | Data collection, analysis, and interpretation to guide process improvements | Collaborative problem-solving in multidisciplinary team

### Daily Responsibilities:

Monitor & document performance of electrolyzer systems and related process equipment | Assist in routine maintenance and troubleshooting of mechanical & chemical systems | Conduct chemical and physical tests to support process optimization and scaling | Collaborate with engineers & scientists to refine process parameters for enhanced efficiency

### End of Program Goals:

Successfully support deployment and optimization of commercial-scale electrolyzer for testing and validation | Contribute to a project report detailing findings, process improvements, and recommendations for future scaling | Present a capstone project or intern-led improvement initiative demonstrating a deep understanding of the technology and its challenges

## DESIRED EXPERIENCE:

Current enrollment in an accredited university program in Mechanical Engineering, Process Engineering, Chemical Engineering, or Chemistry

- Basic familiarity with laboratory practices and safety protocols
- Proficient in MS Office Suite, especially Excel for data analysis
- Prior experience in a research lab or industrial setting is advantageous but not required.

## WORKING CONDITIONS:

- Must be comfortable working on a barge
- Must wear closed-toe shoes

## SCHEDULE:

- Flexibility with student's schedule between business hours, 7a-5p
  - Typically 10-20 hours per week



# UPCYCLING INTERN



## ABOUT THE COMPANY:

### THE RE-UP OUR OCEAN PROJECT

33 billion pounds of plastic trash enter our ocean every year. That's the equivalent of 2 full garbage truckloads every minute! Enough is enough. We have quietly been developing a realistic solution to the plastic pollution problem! Our first products using this plastic trash are here.

## DESCRIPTION:

This internship will focus on assisting Ryan with repurposing "recyclable" products, with further work being dependent on experience.

Responsibilities will include:

- Organizing and disinfecting plastic
- Organizing and cleaning the workstation
- Running machinery (plastic shredder)
  - May be required to work on a CNC machine, based on experience
- Possible moderation of social media page and project content creation
- Using an extruder to melt different plastic types
- Product development and testing

## DESIRED EXPERIENCE:

- Some work experience(s) required
- Must be able to work independently and take initiative on other tasks
  - Must be able to meet project deadlines independently
- Preferred background:
  - Someone passionate about the environment and sustainable practices.

## WORKING CONDITIONS:

- Some heavy lifting will be required.
- If administrative or social media work is assigned, there will be increased screen time.
- No set uniform, but wear clothes & shoes you don't mind getting dirty.
- PPE requirement:
  - Required to wear a face mask when melting plastic.
  - Safety gloves around hot machinery and hot plastic items.

## SCHEDULE:

- Shifts are between 10:00 am – 5:00 pm Monday through Friday.
  - Some weekends are available.