BlueSwell Incubator's Cohort 3 Companies	
Who is Eligible:	Current UMass Boston undergraduate and graduate students and Current Bunker Hill Community College Students
Host Organization:	PATHS, UMass Boston School for the Environment
Time Frame:	Spring 2023 into Summer if needed; Interns to start February 7, 2023. Part-time; weekly scheduling can be flexible with a minimum of 10 hours/ week.
Compensation:	\$18/hour for a maximum of 275 hours (e.g., 12 weeks @ 20 hours/week)
Duty Station:	Combination of remote and in person work at one of the BlueSwell startups and at UMass Boston
To Apply:	Fill in the google form and upload your resume and cover letter here: <u>https://forms.gle/Qf4CXJZZ75YyrWY28</u>
	If you have questions or trouble with this form email <u>Aimee.Bonanno@umb.edu</u> DEADLINE: January 26th, 2022 although we will continue reviewing applications until the positions are filled.

Rhue Technology Engineering Internship with UMass Roston at

For Additional Info: https://blueswell.sea-ahead.com/cohort-iii

Internship Description:

A maximum of six internships are available. Each selected intern will be placed with one of the companies in BlueSwell Incubator's third cohort. The interns will gain professional experience working for a blue technology startup, participating in coding, data analysis, engineering, sensor testing, design and fabrication, marketing, or cybersecurity projects. Interns will form a cohort and be paid for additional meetings and trainings in career empowerment. The duties and locations will vary by startup, please see specific roles outlined below. Once interns have become familiar with the project, each intern will be expected to develop and implement a set of internship objectives and a specific work plan in coordination with a supervisor; and to present the internship outcomes at the SFE Earth Day celebration in April.

Candidates should have a growth mindset and some experience in engineering, ocean science, sustainability, science communication, and/or computer science. Diverse life experience is a plus.

The companies of BlueSwell Cohort 3:



<u>Current Lab</u> is an early-stage startup building better ocean forecasts. We specialize in running computational physics simulations to forecast currents at up to 50x higher detail than traditional global ocean models.

We have provided custom ocean forecasts for the world's top sailing teams at events including the Tokyo Olympics and the America's Cup. Now we're exploring sailing market opportunities among recreational and semi-professional racers.



Our sailing market product is a subscription-based ocean forecasting service, accessed via our web app *Current Map*. Users can view proprietary high-resolution forecasts showing real-time and upcoming surface currents. This data is also available as a downloadable GRIB file.

About the Role: This is an early career position ideal for a candidate with interest and experience in the sailing world. You will have the opportunity to work on coding in the <u>map.current-lab.com</u> web app or on marketing, sales, and customer relations for Current Lab's sailing market business.



<u>Ocean Data Network</u> is fishing for oceanographic data where no one else can get it, and where everyone needs it. We provide data collection as a service, where no one else can. Through evaluating data gaps, instrumenting fishing vessels to fill those gaps, and delivering data automatically in real-time we improve your ocean model and operational forecasts. We also host a data management network and platform. Interested in fishing for data yourself? We are here to help join the emerging global community of science and industry lead programs collecting ocean data with fishers. Together we are stronger: centralized and FAIR data flows are key to increasing value and impact for all stakeholders.

About the Role: This position is ideal for a candidate with interest in data science, web development, and fisheries. You will have the opportunity to work on technical and coding projects or on cybersecurity.



At Aloft, we design and manufacture modern sails for commercial ships, reducing fuel consumption and GHG emissions immediately. These sails are modular and will be able to be installed on nearly any

vessel. Once installed, they operate autonomously requiring no input from the vessel's crew. This project will contribute to automating Aloft's 1/4-Scale sail prototype. More information at: <u>www.aloft.systems</u>.

<u>About the Role</u>: Electrical / Control System Development Intern: You will be working on our functional prototype developing the foundations of a control system to automate the tasks of a skilled sailor. You will work directly with our engineering team to design and assemble the electrical systems and firmware to control the prototype. The type of work is highly variable, one day you may find yourself running wires and installing sensors on the prototype, while another you may spend entirely writing code for the control system.

Responsibilities will include helping to design electrical circuits to integrate sensors and actuators, helping specify sensors, actuators, control electronics and peripheral components, develop, test, and release firmware, and adapting to a rapidly evolving environment by contributing to the learning cycle of the organization.

Radmantis

<u>Radmantis</u> is developing AI-enhanced fish management to protect natural resources, address problems in smart fisheries, and implement precision aquaculture for improved seafood production.

<u>About the Role:</u> This position is ideal for a candidate with interest in data analysis, artificial intelligence, marketing and communications, and fisheries. You will have the opportunity to work on backend IT systems: IoT, SaaS, cloud data management, or cybersecurity, and eventually move to more coastal marine work. You will have the opportunity to meet the founders in person, but much of your work will be remote or from UMass Boston's Beacon Lab.

Berkeley Marine Robotics

Berkeley Marine Robotics is developing automated systems to assess biofouling on ship hulls and subsea structures. By leveraging R&D in autonomous robotic swarms and underwater wireless communication, their fast frequent inspection data stream would help lower fuel/CO2 emissions in the maritime industry and protect port marine biodiversity from invasive species.

<u>About the Role</u>: This position is ideal for a candidate with interest in coding, engineering, and robotics. You will have the opportunity to work on design and possible fabrication of workbench mounts for optical systems alignment and testing or numerical simulations of swarms of unmanned underwater vehicles (dynamic and control). You will have the opportunity to meet the founders in person, but much of your work will be remote or from UMass Boston's Beacon Lab.



<u>PATHS</u> is a coalition of partner organizations across MA, formed by minority serving institutions, UMASS Boston and BHCC, and funded by NASA, to address racial equity in STEM and contribute to a more diverse NASA workforce. We are working together to build a supportive culture that fosters the

change needed for increasing diversity in engineering. We succeed with a team that represents an inclusive and diverse set of identities and backgrounds. All applicants are encouraged to apply.