

Summer 2022

It is deep summer in Woods Hole and all of the NDSF vehicles are in action. Jason and Sentry have just completed dives for a West Coast axial project under Bill Chadwick of Oregon State University. Jason deployed instruments on the seafloor and did exploratory dives to identify new sites to study, and Sentry collected high-resolution bathymetry of the area. Alvin is headed back to sea. And the facility has welcomed a cohort of summer interns. Keep reading for more.

Alvin heads back to sea



Alvin is underway on research vessel Atlantis to resume testing to reach 6500 meters (21,325 feet)—its deepest dive yet. This renewed effort comes after test dives were temporarily halted last November. The engineering team has redesigned the attachment points of the specialized syntactic foam used to provide buoyancy to the 43,000-pound human-occupied research submersible. Read our blog for regular updates, pictures, and video from this next chapter of Alvin's journey.

Around the facility



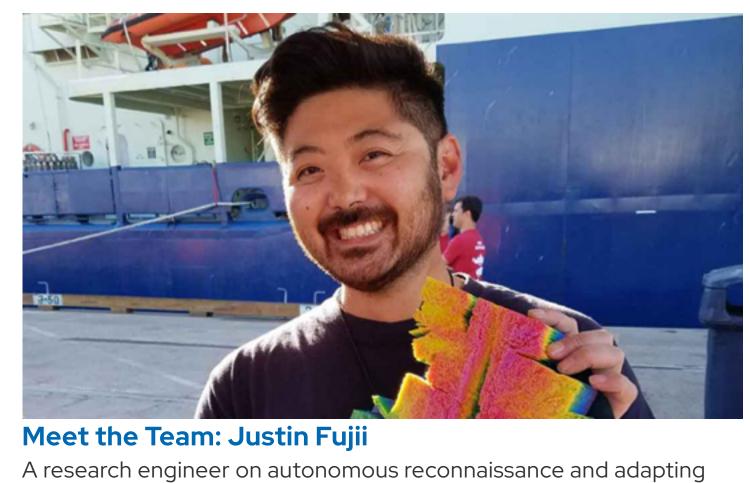
How to study an underwater earthquake from shore Scientist Chris German on a successful AUV Sentry mission when the science team could not travel to sea



Jason and Sentry on #Escanaba2022

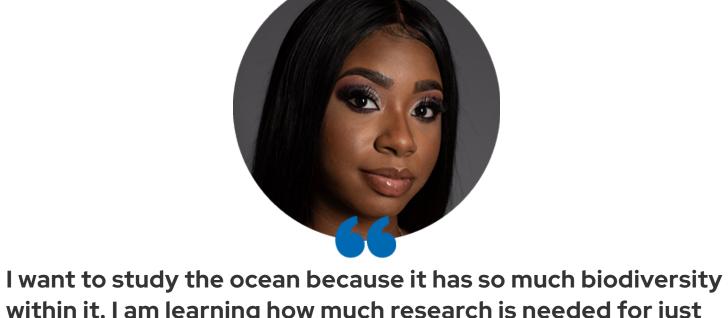
Blue microbes, hydrothermal yents (active and inacti

Blue microbes, hydrothermal vents (active and inactive), and more from a *Jason* and *Sentry* expedition to the Escanaba Trough



the vehicle to new tasks

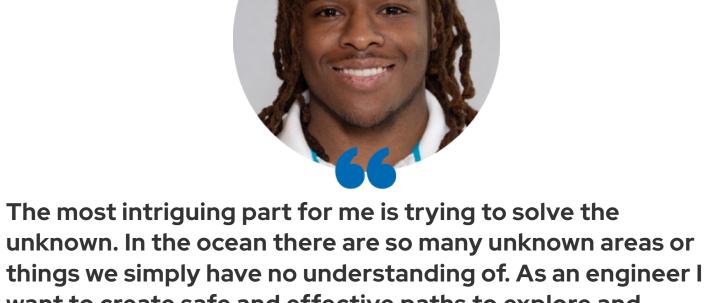
Welcome, summer interns!



within it. I am learning how much research is needed for just the ocean twilight zone. This internship is also allowing me to explore other career opportunities." —Jessica Barrow

Jessica Barrow, is a junior studying environmental, natural resources, and plant science at Tuskegee University and interning through the

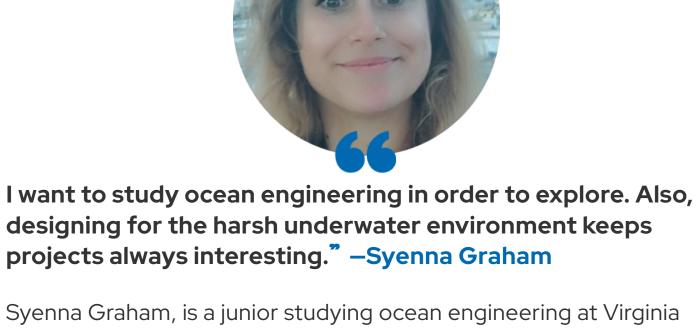
NOAA Ocean Exploration Cooperative Institute (OECI). Barrow will be studying molecular approaches to studying marine biodiversity in the ocean twilight zone and working with WHOI Biologist Annette Govindarajan.



want to create safe and effective paths to explore and discover new things." –Fernando Billups

Fernando Billups, is a junior studying mechanical engineering at Tuskegee University and also an OECI Intern. Billups will be designing a 5000-meter pressure housing for the vehicle Nereid Under Ice and

a 5000-meter pressure housing for the vehicle Nereld Under Ice and working with WHOI Senior Engineer Mike Jakuba.



Syenna Graham, is a junior studying ocean engineering at Virginia Polytechnic and State University interning through the Marine Advanced Technology Education (MATE) program. Graham will be going to sea with AUV Sentry and working with Sentry Group Lead

Sean Kelley.



Sarah Sergent is a sophomore studying Marine Technology at Northwestern Michigan College and is also a MATE Intern. Sergent will be going to sea with ROV *Jason*.

Bruce + *Alvin* screening in Woods Hole



August 20, 7:30pm ET

On Cape Cod this summer? Join us for a screening of the documentary Bruce + Alvin followed by a panel discussion and Q&A with Alvin Pilot Bruce Strickrott and Filmmaker Josh Seftel. The panel will also include WHOI scientists who have used Alvin in their research.

will also include WHOI scientists who have used *Alvin* in their research. This event is free and open to the public. **Register here.**

Where are our vehicles now?

The National Deep Submergence Facility is sponsored by the National Science Foundation, the Office of Naval Research, and the National Oceanic and Atmospheric Administration.

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