

Transforming Aquatic Sciences in the Pacific Northwest

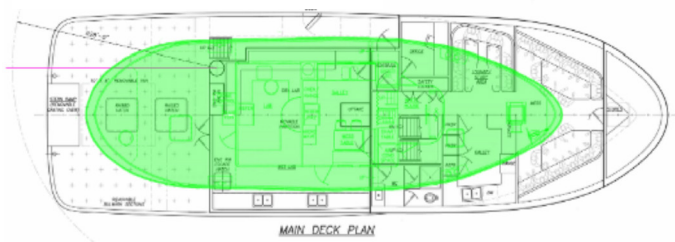
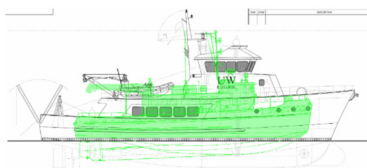
A NEW VESSEL TO SUPPORT CUTTING EDGE RESEARCH AND EDUCATION ON OUR LOCAL WATERWAYS

The marine and fresh waters of the Pacific Northwest are ecologically unique and directly contribute to a high quality of life for the people living nearby. The University of Washington is dedicated to conducting the research necessary to understand these waters and to educate future scientists and resource managers. This commitment ensures stewardship of our region's natural resources and the quality of life for Washington's citizens.

Right now, our ability to understand and work in these waters is compromised. The University of Washington's 49-year old local research vessel, the Clifford A. Barnes, is nearing the end of its service life. Its rich expeditionary history has shed light on how our Pacific Northwest waters work—from investigating the effects of the Elwha Dam removal and the issue of low oxygen in Hood Canal, to advancing our fundamental understanding of tidal circulation in estuaries and why harmful algae bloom in the Puget Sound. Beyond the science, the Barnes has given countless students their first taste of hands-on research, planting the seeds of science in budding oceanographers and future researchers.

We must maintain our ability to execute important science that furthers our understanding of Pacific Northwest aquatic ecosystems, and continue to provide a platform that both excites and cultivates the next generation of scientific leaders.

Drawings from Jensen Marine Consultants compare the size of the existing R/V Clifford A Barnes and the newly designed vessel.



Goal

We seek to raise \$12 million to build a state-of-the-art research vessel to further regional educational programs and scientific research centered around understanding the Pacific Northwest's rich marine and freshwater ecosystems. As scientists and students ask increasingly more complicated questions about our natural world, we must be able to answer them with increasingly sophisticated tools.

Replacing the Barnes enables us to:

- Study and monitor the Pacific Northwest's marine and freshwater health with cutting edge research equipment and capabilities
- Advance the science, technology, engineering, and math-based education for numerous graduate and undergraduate students
- Provide ship-time to our academic partners, including universities, colleges, and community colleges (e.g., Evergreen, UW Tacoma, Seattle Central Community College, Ocean Inquiry Project, and many others) in addition to the University of Washington
- Identify and monitor emerging ocean-related trends of concern (e.g., ocean acidification)
- Provide a research platform for numerous other scientific, government, and NGO partners (e.g., NOAA, Dep't of Ecology, academic and agency scientists, etc)
- Build a green vessel that is ADA accessible, broadening access to scientific study

A total capital investment of \$12 million—leveraging contributions from the University of Washington, corporate and individual donors, and the State of Washington—will greatly benefit our state and its citizens by strengthening our understanding of the sea and how we connect with it.

