

Project title: **2015 Nautilus Internship Opportunity For Epp Csc Graduate Student**

NOAA mission goal: **Integrated Across All NOAA Goals [or Identify Specific NOAA Goal]**

Hypothesis or objectives: **To provide the opportunity to gain hands-on experience in telepresence-enabled exploration at sea**

Internship duration: Approximately 2 to 5 weeks during March to October, 2015

Intern will support the Exploration Vessel (E/V) Nautilus's mission to explore the world's oceans using multibeam bathymetric sonar, remotely operated vehicles, and telepresence technology by working at sea aboard Nautilus. Intern will also be featured in Nautilus' educational programming as a role model for other students.

Academic status: **Graduate**

Area(s) of discipline: **Biochemistry And Biophysics, Biology, Chemistry, Engineering, Climate Change, Computer And Information Sciences, Earth Science, Geology, Geophysical Engineering, Hydrology, Information Systems, Information Technology, Living Marine Resources, Marine And Aquatic Sciences, Microbiology, Natural Resource Management, Ocean Engineering, Oceanography, Physical Sciences, Physics, Remote Sensing Technology, Spatial Analysis**

Internship location: **Exploration Vessel (E/V) Nautilus**

Duties and responsibilities: **Location: Aboard Exploration Vessel (E/V) Nautilus in the Caribbean Sea/Gulf of Mexico/Northern South America**

(Galápagos Is)/Eastern Pacific Ocean (San Francisco)

Availability to go to sea: April – October 2015;

Expedition Dates: TBD 2-5 weeks in the Gulf of Mexico or Eastern Pacific Ocean.

While at sea, Science Interns spend their time on Nautilus working with a wide array of scientists, learning how to make scientific observations and process digital data and physical samples. The position, for one CSC graduate student, entails approximately 2 - 5 weeks working aboard Nautilus as a Data Logger, processing oceanographic data and samples, and participating in educational outreach activities. While on board, Science Interns will be assigned an 8-hour shift, split into two 4- hour watches. Between watches, Interns will be expected to assist with science and educational activities aboard the ship. A typical working day on the ship is approximately 10-12 hours.

This is a science-focused internship, archeology, social science, education and communications majors may also be considered.

Special skills/training
required:

The objective is for the student to learn skills, techniques, and experience hands-on research or educational activities applicable to a career in environmental science.

Required Skills:

- Interest in oceanography and ocean exploration, specifically seafloor mapping and remotely operated vehicle operations.**
- Interest in sharing experiences with students all over the world as a role model in oceanographic research**
- Familiarity with Windows and Mac operating systems**
- Ability to participate in an eight-hour at-sea duty assignment.**

- Attention to detail.

Additional Skills (preferred but not required):

- Previous experience in the acquisition and processing of multibeam data.

- Previous experience with geographic information systems (GIS).

- Previous experience in the acquisition and processing of oceanographic data

Expected outcomes:

- Oceanographic data collection, interpretation, and analysis

- Biological, geological, and/or chemical sample processing and analysis experience

- Cruise operations experience

- Science communication experience

- Real-world professional training experience

- Resume-building experience

Guidance and supervision:

Intern will be supervised by:

- Allison Fundis, Director of Education, Ocean Exploration Trust;

- Nicole Raineault, Director of Science Operations, Ocean Exploration Trust

Application requires:

-NOAA EPP Nautilus Internship Application Form: URL to Complete Online then Print Application Form, <http://www.jotformpro.com/form/42816205603953>

- Completed form MUST be printed and included in the Application package submitted to EPP.

APPLICATION COMPONENTS & MATERIALS

- Cover Letter (2 pages max), addressing the following: Statement of studies and career plans, interest in, how you heard about this opportunity and reasons for applying. Also provide your availability during March – October, 2015. Include what you hope to take away from the experience. Focus on tangibles.
- Two letters of recommendation: – sent directly to oed.epp10@noaa.gov,
- Resume (3 pages max),
- Unofficial transcript,
- Completed Online Nautilus Application Form is to be printed then submitted as part of the complete application package.

Naming Application Package:

EPP_Nautilus_2015_Lastname_Firstname_Complete_Application.pdf

Content of a complete application package: Single file with: (i) cover letter; (ii) Nautilus application form; (iii) resume; (iv) unofficial transcript.

Application Submission for EPP Slot on E/V Nautilus: The Application with all components must be submitted as a single document (.pdf) to oed.epp10@noaa.gov no later than 5:00PM (EST) on January 15, 2015.

- U.S. Citizenship Required.

- Some applicants will also be asked to attend an online video chat interview prior to selection

Nautilus Contact: allison@oceanexplorationtrust.org

**Mentors Contact Information: oed.epp10@noaa.gov
Name: Epp Csc Program**

**Organization: Cooperative Science Centers (CSC)
Program office: CSC Student Internships**

**Submit Completed Application to oed.epp10@noaa.gov by
01/15/2015.**

**For more information on the Ocean Exploration Trust,
<http://www.oceanexplorationtrust.org>**

**For more information on the Nautilus Exploration
Program,
[http://www.oceanexplorationtrust.org/#!nautilus-
exploration-program/cdx2](http://www.oceanexplorationtrust.org/#!nautilus-exploration-program/cdx2)**

**For more information about EPP Cooperative Science
Centers: www.epp.noaa.gov**