

Project title: **NOAA Ship *Okeanos Explorer* 2015 Mapping Internship For Csc EPP-CSC-supported Graduate Students (Two Graduate Opportunities for February - August, 2015)**

NOAA mission goal: **Integrated Across All NOAA Goals**

Hypothesis or objectives: **To provide the opportunity for two CSC-supported graduate students to gain hands-on experience using an advanced multi-beam bathymetric sonar mapping system, while contributing in a significant way to the *Okeanos Explorer* ocean exploration mission.**

Academic status: **Graduate**

Area(s) of discipline: **Atmospheric Science, Ecology, Electronics Or Communications Engineering, Engineering, Environmental Chemistry, Environmental Engineering, Environmental Science Studies, Fisheries Science, Geography, Geology, Geophysical Engineering, Information Systems, Information Technology, Living Marine Resources, Marine And Aquatic Sciences, Meteorology, Natural Resource Management, Ocean Engineering, Oceanography, Remote Sensing Technology, Spatial Analysis**

Internship location: **N O A A Ship *Okeanos Explorer*, RI**

Duties and responsibilities: **A typical internship will consist of one 15-30 day offshore expedition during February through August of 2015. The *Okeanos Explorer* will sail in and around the Gulf of Mexico between the end of February and mid-April. Another series of 2015 sailings will be in May through August (Caribbean to Hawaii). Interns will participate in eight-hour mapping exercises each day while on board. The duties of the mapping exercise typically include the acquisition and processing of multibeam data and associated sound velocity data, as well as precise record keeping. Each intern will also complete an onboard project of their own interest, with approval and support from experienced mapping team personnel.**

DURATION: Specifics To Be Determined

Special skills/training required: **- Interest in learning about seafloor mapping operations.**

- Familiarity with Windows and Microsoft Office tools.
- Ability to participate in an eight-hour at-sea duty assignment.
- Willingness to learn and follow shipboard Standard Operating Procedures
- 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 with fisheries or sub-bottom sonars.

- Expected outcomes:
- Enhanced Mapping Skills.
 - Real-world Professional Training Experience.
 - Resume-building Experience

Guidance and supervision: **NOAA's Office of Ocean Exploration and Research Mapping Team Personnel/CSC Technical Lead**

READ CAREFULLY - Documents Needed: The application for this internship requires a Resume/Curriculum Vitae, including name and contact information for at least two references as well as an academic or research advisor. The application also requires a brief letter of interest (max. 1 page) relevant to this internship which specifically addresses the following questions:

- a) Why do you think ocean exploration is important?
- b) What are your anticipated educational/academic goals for this internship?
- c) How do you anticipate that an internship with the *Okeanos Explorer* Program will apply to your future academic and/or career pursuits?

Please have these documents in the following order and submit (via email to: oed.epp10@noaa.gov) as one file: (1) letter of interest (limited to one single-spaced page), (2) current CV/resume, (3) at least one letter of recommendation; (4) applicant's availability between February 1st and September 30th 2015; and, (5) Contact information of references, include an academic or research advisor. Name the file with your last name first, then EPP-Okeanos FY15 (e.g., Smith-EPP-OkeanosFY15.doc).

COMPLETE Application Package must be submitted by the CSC Center Director to oed.epp10@noaa.gov on or before close of business – 5:00 PM (EASTERN).

Deadlines are as follow:

No later than on January 15, 2015: For applicants with interest in sailing February through April.

No later than on February 2, 2015: For applicants with interest in sailing May through August.

Completed Application Package must be submitted, through the EPP Center Director, to: oed.epp10@noaa.gov.

For more information on the NOAA Ship *Okeanos Explorer* AND the Office of Ocean Exploration and Research please visit:

<http://oceanexplorer.noaa.gov/0keanos/> and

<http://oceanexplorer.noaa.gov/edu/explorer-in-training/welcome.html>

For more information on NOAA's Office of Education Educational Partnership Program:

<http://epp.noaa.gov/>

For more information about EPP Cooperative Science Centers: http://www.epp.noaa.gov/csc_index_page.html