

Position ID

E17-37

Position Title

Knauss Fellow, Biological Oceanography Program, Division of Ocean Sciences

Office Name

Division of Ocean Sciences, National Science Foundation

Portfolio Summary

At the National Science Foundation (NSF), you'll enjoy a front row seat to the Nation's latest scientific discoveries. As a Knauss Fellow with NSF's Division of Ocean Sciences (OCE), you will join a team of PhD-level scientists, engineers, and educators tasked with supporting exciting and innovative research, infrastructure, and education to advance understanding of all aspects of the global oceans and ocean basins.

OCE works with the U.S. ocean sciences academic community to direct funding towards advancing the frontiers of knowledge, developing the next generation of researchers, and enhancing the public's understanding of ocean sciences. The Division represents this community in the Federal context, coordinates with other Federal agencies and with international partners on research funding and infrastructure management, and participates in the development of policy through national and international forums and programs. These activities provide knowledge critical to addressing many of our Nation's most pressing challenges involving ocean processes.

OCE's Biological Oceanography Program supports basic research in marine ecology broadly defined: relationships among aquatic organisms and their interactions with ocean or Great Lakes environments. The Program supports research and educational activities directed at understanding all types of marine organisms, from marine microbes to upper trophic level taxa, and participates in interdisciplinary activities encompassing coastal and ocean interactions with people and the integrated Earth system.

OCE and the Biological Oceanography Program have a long history of hosting Knauss Fellows, working to match the expertise and interests of Fellows with office priorities for the fellowship year. In the upcoming year, the Knauss Fellow will contribute to a range of activities in the Biological Oceanography Program. These may include facilitation of peer review and award recommendations for proposals submitted to the Program, communication with the research community, analysis of community input on proposed projects, and identification and articulation of the merits of research that warrants support. S/he may also help develop workshops and participate in community activities to develop new areas of oceanographic research.

In addition to contributions to the core Biological Oceanography Program as described above, we anticipate opportunities for a Fellow to participate in any of the following:

- The Program is currently involved in a range of activities focused on data management, data sharing policies, and developing cyberinfrastructure to support "big data" approaches to earth system sciences. In the coming year we will be evaluating our OCE and Long Term Ecological Research (LTER) data management activities, updating the Division of Ocean Sciences Data Management Policy, and continuing our participation in the Geosciences EarthCube initiative.
- The Program will be collaborating with NASA in their EXPORTS Program that focuses on carbon cycle and biological pump research.
- Genomic-enabled tools are becoming widely used by investigators funded by the Program. A high priority of the Program is to provide the infrastructure needed to conduct this research by

supporting the development, evaluation, and dissemination of new approaches. To support these efforts, the Program is developing a partnership with NSF Biology programs aimed at catalyzing an increase in the capacity of research communities to test cause-and-effect hypotheses about genes and phenotypes in organisms presently lacking such tools.

Depending on interests, Fellows can also participate in interagency activities to develop and implement national research priorities and engage in other cross-foundational activities within OCE.

In terms of your own professional development, you may also: attend talks and distinguished lectures given by international luminaries from all fields of scientific inquiry; participate in the broad suite of personal development training programs offered at the Foundation; increase your breadth of knowledge by reading and reviewing proposals in and outside your area of expertise; gain intense learning experiences through observing peer review panels where leading and upcoming researchers engage in dialogue about cutting-edge science; broaden interdisciplinary understanding through participation in the development of new solicitations and the initiation of new programmatic emphases; and interact with the scientific community at national meetings and workshops.

Expertise Desired

Interest in working with the ocean sciences community; interest in learning how NSF functions; awareness of biological oceanography or related research topics

Travel within DC (days per month)

1-3 days per month

Travel outside DC (days per month)

Variable

Accepts Foreign Nationals

Yes