



Imagination

Office of Naval Research

Pre-College Programs
For Students & Teachers

www.onr.navy.mil



OFFICE OF NAVAL RESEARCH
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The Office of Naval Research (ONR) plans, executes, coordinates, and promotes science and technology for the U.S. Navy and Marine Corps through work performed at universities, naval laboratories and industrial research centers.

Our ability to identify and invest in scientists and engineers with talent and ability has resulted in discoveries that now benefit all of society, such as radar, the laser, the Global Positioning System and thousands of other discoveries and products used every day around the world.

ONR invests in students through science competitions awards and scholarships, research opportunities at naval laboratories and graduate fellowships. In fact, many of the students selected to work at our laboratories return because of the interesting work, the interest in their development shown by the talented naval scientists and engineers who mentor them, and the opportunity to meet and work with other students who share an interest in science and engineering. Please visit our website to learn more about ONR's education programs.

www.onr.navy.mil/education

Pre-College Students

Regional and State Science Fairs

ONR participates, on behalf of the U.S. Navy and Marine Corps, in nearly 400 junior high and high school regional and state science fairs. Students selected by naval judges receive recognition for their work.

Army, Navy and Air Force Junior Science and Humanities Symposia (JSHS)

ONR, with ARO, AFOSR, and leading research universities, sponsor JSHS to promote research and experimentation by students in grades 9-12 with the potential

or demonstrated interest in the sciences, mathematics, engineering or technology. Each regional finalist, in the 48 regional symposia, receives a \$4,000 undergraduate scholarship and the opportunity to compete for additional scholarship supports at the national competition. Participating teachers are also recognized.

International Science and Engineering Fair (ISEF)

ONR U.S. Navy and Marine Corps judges participate in ISEF to recognize up to 19 students in grades 9-12 with an \$8,000 portable undergraduate scholarship. ONR awards students for continuing their studies in science, mathematics, engineering and technology and for their demonstrated ability in using the scientific method via their project.

National Ocean Sciences Bowl (NOSB)

ONR and other Federal agencies sponsor the NOSB, a competition for high school students to increase their, as well as their teachers and parents', knowledge of the oceans. Occurring at 24 sites, NOSB raises the visibility and public understanding of the national investment in ocean-related research.

Science and Engineering Apprentice Program (SEAP)

SEAP places academically talented high school students with interest and ability in science and mathematics as apprentices in naval laboratories for 8 weeks during the summer. Naval scientists and engineers serve as mentors to SEAP students.

Pre-College Educators

Maury Project

ONR, in partnership with the American Meteorological Society and others, offers master K-12 teachers and supervisors of science a professional development opportunity in oceanography. Participants are provided with scientifically accurate and pedagogically sound instructional resource materials. The program has two teacher enhancement

components: (a) summer workshop training and (b) peer-led training sessions. The summer workshop is held at the United States Naval Academy in Annapolis, Maryland, for 24 participants. Three semester hours of graduate credit may be earned. For more information, see <http://www.ametsoc.org/amsedu/maury/>

Check Out ONR's Science Focus Site For Students & Teachers

ONR's award winning Science Focus site is packed with exciting facts, information, and quizzes about oceanography, space sciences, astronomy and today's high tech naval research.

Additionally, ONR's CyberScientist is always ready to help students and teachers answer those tough science questions.

Since more science and technology modules are in the works, please check back often!

www.onr.navy.mil/focus

