
Marine Biology Internship Guide 2012



New College of Florida
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Marine Biology Internship Guide 2012

Research Experience for Undergraduates Program in Estuarine and Coastal Marine Sciences

REU Coordinator: Richard Forward

Address: Duke University Marine Lab

135 Duke Marine Lab Rd.

Beaufort, NC 28516

Tel. (252) 504-7610

Web site: <http://www.nicholas.duke.edu/marinelab/programs/undergraduate/reu.html>

The National Science Foundation funded REU program will take place at the Duke Marine Lab located on Pivers Island in coastal Carteret County of North Carolina. Pivers Island is part of the Newport River estuary and is about 2 km from the ocean via the Beaufort Inlet. Coastal and estuarine invertebrate species and a variety of habitats (marshes, mudflats, sand flats, beaches, creeks, channels and coastal ocean) are readily available for research. Nine students will participate in a 10 week semi-independent research program with faculty mentors in the following general areas: Sensory physiology, ecology, and behavior, environmental toxicology, molecular biology and genetics, and coastal and estuarine processes. Each student will work with a faculty mentor, develop a research project, present progress and final oral reports and prepare a final written paper. Students will receive housing and meals at the Duke Marine Lab in addition to a stipend and travel allowance. Visit our frequently asked questions page for details. For additional information contact Dr. Richard Forward: rforward@duke.edu

Oregon State University REU Program at College of Oceanic & Atmospheric Sciences or Hatfield Marine Science Center

REU Coordinator: Itchung Cheung

Address: College of Earth, Ocean, and Atmospheric Sciences, Oregon State University

104 CEOAS Administration Building

Corvallis, OR 97331-5503

Hatfield Marine Science Center, Oregon State University

2030 SE Marine Science Dr

Newport, OR 97365

Tel. (541) 867-0380

Web site: (For COAS mentors)

<http://www.coas.oregonstate.edu/index.cfm?fuseaction=content.display&pageID=519>

(For HMSC mentors/

The Research Experience for Undergraduates (REU) program offers students the unique opportunity to work on individual research projects, and participate in group field trips, seminars and science colloquia over a 10-week period at COAS and HMSC under the guidance of university and research agency scientists, who serve as mentors. On-site housing at OSU or HMSC and a weekly stipend are provided. COAS and HMSC offer a particularly broad range of undergraduate research opportunities and engineering applications in the physics, chemistry, geology and biology of the Earth, ocean and atmosphere. We welcome applications from students with backgrounds and interests in any of these areas, including biology, chemistry, earth science, physics, mathematics, computer science, or engineering majors. While students work independently with their research mentors, there are numerous opportunities to interact with other scientists and students in other departments on the Corvallis campus and at the Hatfield Marine Science Center in Newport, through orientation, weekly seminars, group field trips, social events, and final project presentations.

Estuarine, Coastal Barrier Ecology, and Processes REU

REU Coordinator: Dr. Stephen R. Fegley

Address: Institute of Marine Sciences

3431 Arendell St.

Morehead City, NC 28557

Email: srfegley@email.unc.edu

Web site: <http://www.unc.edu/ims/reu/index.html>

We seek 8 motivated and talented undergraduate students interested in marine science to participate in a Summer Research Experience for Undergraduates Program, supported by the National Science Foundation (NSF) and Department of Defense. The successful applicants will develop the skills and confidence necessary to conduct research and communicate scientific results. In accordance with NSF REU programmatic goals, students early in their career and without significant prior research experience are preferred. The Institute of Marine Sciences (IMS) is part of the University of North Carolina at Chapel Hill. Our facility consists of three buildings sited on a 6.5 acre waterfront location. All room and board expenses are covered by the program. Participants pay no fees or tuition charges. Each participant will receive a stipend of \$4500, supplements to pay for housing and food, as well as some funds for travel to and from IMS at the beginning and end of the program.

NSF Research Experience for Undergraduates: Dauphin Island Sea Lab

REU Coordinator: Sally Brennan

Address: Dauphin Island Sea Lab

101 Bienville Blvd

Dauphin Island, AL 36528

Tel. (251) 861-2141, ext. 2256

Web site: <http://www.disl.org/>

Students selected for the program will participate in an intensive 12-week research experience in which they will work within a faculty research group and develop their own independent research project. REU participants will benefit from a series of workshops on professional skills, and attend lectures by outstanding visiting speakers. Participants may earn up to 8 academic credits for the experience with prior approval from their home campus. Students participating in this exciting marine science program will have the opportunity to gain basic field and laboratory research skills, and develop proficiency in data interpretation and presentation. Research areas of DISL faculty include: ecology of early life history of marine and estuarine fishes; plant-animal interactions in seagrass beds; microbial ecology; nutrient biogeochemistry; benthic ecology; trophic interactions and carbon budgets in marine ecosystems; life history and biomechanics of marine invertebrates; paleo-ecology, estuarine science, plankton ecology; and others. Stipends of \$5,400 will be provided for the full-time program. In addition, students will be provided on-campus housing and a food allowance. Students from outside the Mobile, Alabama area may apply for travel assistance of up to \$400.00.

Scripps Undergraduate Research Fellowship (SURF)

REU Coordinator: Eric Simms, Jane Teranes

Address (U.S Postal Mail): SURF REU Program

c/o Eric Simms

UCSD/IGPP—0225

9500 Gilman Dr.

La Jolla, CA 92093-0225

Tel. (858) 822-2993, (858) 534-5386 or (858) 822-2099

Web site: http://www.sioundergrad.ucsd.edu/surf/2011_program/

SURF fellows will work in research labs and facilities at the Scripps Institution of Oceanography. SURF fellows will typically spend 6-8 hours a day, Monday - Friday, engaged in their faculty led research projects. Fellows will attend a weekly research seminar, Perspectives on Ocean Sciences, conducted by Scripps researchers and faculty. In addition to research training, the SURF program provides mentoring and tips to prepare participants for success in graduate school. In addition to their faculty research mentor, SURF fellows are also assigned a graduate student advocate/mentor. Fellows participate in weekly student development workshop, a GRE (Graduate Records Exam) course 2 mornings a week (during weeks 2-6), and give a formal presentation of their results at the Summer Research Symposium at the end of the program. Housing is provided for all fellowship recipients on the main campus of UC San Diego. The apartments are furnished and equipped with a kitchen, outdoor patio, dining room, living room and double or single bedrooms. SURF fellows are expected to cover their own food and meals as part of their stipends during the program.

University of California - Irvine Earth System Science REU Program

REU Coordinator: Eric Saltzman

Address: Department of Earth System Science

University of California, Irvine

Croul Hall

Irvine, CA 92697-3100

Tel. (949) 824 - 3936

Web site: <http://www.ess.uci.edu/reu>

This eight-week summer research program is focused on "reducing uncertainties in our understanding of climate change on the time scale of a human lifetime." The program includes hands-on research training, scientific lectures and scientific discussions, and informal discussions about science ethics, scientific communication, graduate programs, and career paths in Earth System Science. Research projects available to REU students cover a range of disciplines, including Atmospheric Chemistry, Marine and Terrestrial Biogeochemistry, Climate Change Atmospheric and Oceanic Circulation, Sea Ice and Ice-Sheet Dynamics, and Paleoclimatology. Along with informal lunches hosted by faculty and/or graduate students, we are available to assist with transportation for outdoor activities for interested students. These may include hikes or canoe/kayak excursions on local lakes or Back Bay in Newport Beach. Orange County also offers museums, a zoo, an Ocean Institute, professional sports, and theater opportunities for interested students. A stipend will be paid directly to the student and travel expenses will be reimbursed directly to the student.

Shannon Point Marine Center REU

REU Coordinator: Dr. Stephen D. Sulkin

Address: Shannon Point Marine Center, 1900 Shannon Point Road, Anacortes, WA 98221

Email: SPMC@wwu.edu

Web site: <http://www.wwu.edu/spmc>

SPMC is located on a 78-acre campus covered mostly by Pacific lowland forest and distinguished by some 3000 ft of undisturbed beachfront. The campus, including the beach, is treated as a natural laboratory with collection of specimens and disturbances of other kinds limited to professional activities. The beach is a particularly valuable resource as a field study and collection site, its value enhanced by its close proximity to our laboratory facilities. Each summer, eight students will be selected from a national pool to spend nine weeks at the Shannon Point Marine Center working with faculty supervisors in designing and conducting the research projects. At the end of the session, students will produce a written and an oral report based on the results of their research. In the past, student research projects have included work on productivity and nutrient cycling in local watershed systems; marine microbial

ecology; marine chemical ecology; physiology of symbiosis; ecology and physiology of seaweeds; larval development, physiology, ecology; morphology of marine invertebrates; and environmental toxicology. Student support includes a \$4500 stipend plus a \$567 food allowance, a travel allowance and housing at the Shannon Point Marine Center.

Friday Harbor Laboratories' Blinks - NSF REU Summer Internship

REU Coordinator: Scott Schwinge

Address: Scott Schwinge

Administrator Friday Harbor Laboratories

620 University Rd.

Friday Harbor, WA. 98250

Tel. (206) 616-0708

Web site: <http://depts.washington.edu/fhl/REU.html#descriptions>

Friday Harbor Laboratories' Blinks - NSF REU Summer Internship Program seeks to link undergraduate students with scientist-mentors as collaborators in marine science research projects. The program takes advantage of the pristine environment, remarkable biodiversity, and the scientific and technical resources at University of Washington's marine science research facility. In keeping with the University of Washington's policy of encouraging diversity in its student body and including underrepresented groups, the program seeks 10-15 students of diverse backgrounds and interests to participate in an eight to twelve week summer research project in the marine sciences. By linking fellows with marine scientists in a 1:1 research experience, fellows learn both the process and the substance of scientific research. As the research progresses, fellows will be encouraged to become semi-independent collaborators. The experience will expose fellows to the life and work of a marine science research laboratory. The program will incorporate workshops, seminars and training sessions in addition to hands-on research. Participants will be provided with financial support to meet costs of room, board, round trip travel and a monthly stipend of \$1000.

Research Experience for Undergraduates at the Virginia Institute of Marine Science

REU Coordinator: Mrs. Fonda Powell

Address: Summer Intern Program - REU

Office of the Associate Dean of Academic Studies

Virginia Institute of Marine Science

P.O. Box 1346

Gloucester Point, VA 23062

Tel. (804) 684-7105

Web site: http://www.vims.edu/education/college/summer_intern/index.php

The basis of the Summer Intern Program is a highly individualized research experience for each student coupled with group activities. As an intern in the VIMS/SMS program, you'll work closely with a mentor, and often within the context of a research team, to develop an individual project. Depending on the project, the summer may involve lots of 'hands-on' experience in the field or laboratory, or both. You'll have access to one of the best marine science libraries in the country, as well as extensive computer facilities. Interns are expected to work with their mentors to develop a project idea in the form of a brief research prospectus, conduct their research, and then present results in a final program that is open to the VIMS community. Interns also prepare a summary research paper that is maintained in the program archives. In some cases, this has been the basis for a subsequent publication in the scientific literature.

REUfest

REU Coordinator: Dr. Deana Erdner and Dr. Edward Buskey

Address: The University of Texas at Austin

Dr. Deana Erdner

Department of Marine Science

1 University Station [department mail code]

Austin, Texas 78712 Tel. (361) 749-6719

Dates: Vary

Web site: <http://reu.utmsi.utexas.edu/>

REUfest is a summer research program for undergraduates at the University of Texas Marine Science Institute. Student projects take advantage of the wide variety of coastal habitats near the Institute, including shallow bays, hypersaline lagoons, seagrass beds, estuaries, mangroves, and marshes. Eight fellowships will be available for the summer of 2012, for undergraduate students to conduct independent research projects on the causes, effects and consequences of coastal environmental change. The 10-week summer program begins with a 2-day research cruise on the R/V Katy and ends with a symposium in which students will present their research results. Along the way, students will create web pages and blogs about their research, and participate in a variety of professional development activities. Students will receive a summer stipend of \$5000 for the 10-week program, full room and board, a research allowance, and a travel allowance.

Summer Internship Program: Texas A&M University at Galveston

REU Coordinator: Tim Dellapenna

Address: Texas A&M University at Galveston

Research and Graduate Studies Office

Attn: Peggy Rutkowski

P.O. Box 1675

Galveston, TX 77553

Tel. (409) 740-4952

Web site: <http://www.tamug.edu/nsfreu/>

The program will host 10 undergraduates from across the United States for a 10 week program. Each intern will be matched with a faculty member for the duration of the program. The intern and the faculty member will jointly develop a research project which will be conducted in the faculty member's research lab. Internships are available in many areas of marine science including marine biology, marine and coastal geology, biological, physical, and chemical oceanography, wetlands management, marine fisheries management, and marine resource management. Interns will receive a stipend of \$4400 for the 10 week program (paid on the 1st and 16th of the month), double occupancy housing in the TAMUG Pelican Island dormitory on the TAMUG campus, and a 15 meal per week meal plan will be provided.

Fort Johnson Undergraduate Summer Research Program

REU Coordinator: Louis E. Burnett

Address: Louis E. Burnett, Director

Fort Johnson Summer Research Program

Grice Marine Laboratory

205 Fort Johnson Rd.

Charleston, SC 29412

Tel. (843) 953-9200

Web site: <http://reu.cofc.edu/?referrer=webcluster&>

The Fort Johnson Undergraduate Summer Research Program for 2012 is centered on the theme: "Marine Organism Health: Resilience and Response to Environmental Change." Prior to arrival at Fort Johnson, interns are matched to individual faculty mentors and initiate planning for potential research projects. Individual and group activities will be centered on the impacts of climate change, natural disasters, pollution, and coastal development on the health of marine organisms as individuals, communities, populations and species. Specific projects will address fishery stock genetics, infection and disease resistance in marine species, molecular and cellular indicators of environmental disturbance, physiological adaptations to stress and biotoxins. Group activities will include skill-building workshops on communicating science, field trips to diverse estuarine habitats, and focused journal clubs to discuss recent scientific literature. Research activities continue throughout the ten week fellowship period, during which time students remain in residence in dormitories at the Grice Laboratory. Products of the summer include a formal oral presentation, a written research paper, and several educational outreach tools to communicate the results of the intern's research to their peers, their home institution and the public. Each student will receive a stipend of approximately \$4,000 for the summer.

Marine Sciences Summer Intern Program College of Earth, Ocean, and Environment - University of Delaware

REU Coordinator: Dr. Ana I. Dittel

Address: University of Delaware

College of Earth, Ocean, and Environment

700 Pilottown Road Lewes

DE 19958-1298

Email: adittel@udel.edu

Web site: <http://www.ceoe.udel.edu/academics/undergraduate/summer/index.shtml>

Students between their junior and senior years will receive preference. Interns will work with faculty and research staff in a graduate student atmosphere on a research topic in chemical, physical, or biological oceanography, marine biology, marine geology, or marine biochemistry. Interns will work semi-independently on a project designed by the intern and assigned faculty advisor and present written and oral reports at the end of the summer. Interns will be expected to attend weekly seminars presented by faculty and research staff. The marine science internship program will take place at the University of Delaware's College of Earth, Ocean, and Environment Hugh R. Sharp Campus in the resort community of Lewes. This modern campus is located on the shores of Delaware Bay and the Atlantic Ocean near Cape Henlopen State Park. Student support includes a \$5,500 stipend, free housing, and travel assistance for the 10-week session.

Mote REU Program

REU Coordinator: Dr. Barbara Kirkpatrick

Address: Mote Marine Laboratory and Aquarium

1600 Ken Thompson Parkway

Sarasota, FL 34236

Email: reu@mote.org

Tel. (941) 388 - 4441 Ext. 226

Web site: <http://www.mote.org/index.php?src=gendocs&link=REUhome&category=Shark%20Research>

The Mote REU Program offers paid research training experiences in estuarine science to 10 undergraduate students per year. Participants will conduct mentored research projects under the direction of a Mote scientist while gaining experience in the development of research plans by completing a research proposal, gain experience in scientific writing by completing a "manuscript-style" final research paper, and gain experience in oral presentation of scientific data by presenting their

research results in a laboratory-wide poster presentation. In addition, participants will attend research seminars on ocean science presented by graduate students from several Florida universities while learning about opportunities for graduate study, careers in marine science, and communication skills in science by participating in student workshops. Students participating in the Mote REU Program receive \$5,000 stipend over the 10-week period, free housing in a local dormitory, and financial support for travel expenses between Mote and their home institution.

LUMCON's Research Experience for Undergraduates Program

REU Coordinator: Nicole Cotton and Dr. Brian Roberts

Address: REU Program

LUMCON

8124 Highway 56

Chauvin, LA 70344 USA

Tel. (985) 851-2845

Web site: <http://www.lumcon.edu/REU/>

LUMCON's Research Experience for Undergraduates (REU) Program offers paid research training experiences in coastal and marine science to six undergraduates. REU participants will conduct independent research projects with guidance from scientific mentors and their research teams. Each student is paired with a scientific mentor based on mutual research interests. The REU program is designed to give students a meaningful, hands-on research experience that takes advantage of state-of-the-art methods and technologies available at LUMCON. Throughout the program, students will identify a research question, develop and orally present a research proposal, conduct their proposed research project, and gain experience in science communication by presenting results of their project in a manuscript-style research paper and orally at a laboratory-wide research symposium during the final week of the program. In some cases, this paper will form the basis for (or contribute to) a subsequent publication in the scientific literature. REU students will also participate in a series of career and skill building workshops and field trips throughout the program. REU students are immersed in the LUMCON community and will have the opportunity to participate in seminars, laboratory outreach programs, social events, and more throughout the summer. Interns pay no facility fees or tuition charges and receive a Stipend of \$5,000 for the 10-week program, room and board at the DeFelice Marine Center, funds to partially or fully cover travel costs to and from LUMCON from their home or university, funds to support research expenses associated with their independent project, and funds for renting small boats in support of research projects.

Biological Discovery in Woods Hole Summer Opportunity for Undergraduate Research

REU Coordinator: Allen Mensinger

Address: Department of Education

7 MBL Street

Woods Hole MA 02543

Tel. (218) 726-7259

Web site: http://hermes.mbl.edu/education/courses/other_programs/reu.html

The Biological Discovery in Woods Hole Program is designed as an intensive, 10-week research experience for undergraduates at the Marine Biological Laboratory (MBL) in Woods Hole, MA. The major portion of each student's time will be dedicated to an individual research project under the direction of one of the participating mentors. The program will integrate the students with the marine setting and the unique intellectual blend of year-round and summer investigators at the MBL to provide a diverse and varied undergraduate research experience. The program will focus on the molecular, cellular and physiological processes that give rise to and regulate complex physiological systems, and which

ultimately mediate organismal behavior. To augment the research experience, students will participate in field trips, and attend weekly course meetings, seminars and/or luncheons that will explore a wide range of topics (e.g., graduate school application, ethics, career paths) to encourage the students to prepare and pursue a career in biological sciences. There will also be group activities, field trips and barbeques to provide peer interactions. Finally, the program will culminate with an undergraduate research symposium. Students will receive a stipend of approximately \$4500 for the ten week program. Room and board will be provided in MBL dormitories which are on the MBL campus, and a stone's throw from the ocean. The rooms are shared, and the BDWH students are usually assigned rooms together.

Maryland Sea Grant Research Experiences for Undergraduates program

REU Coordinator: Fredrika Moser

Address: Dr. Fredrika Moser

Maryland Sea Grant College

4321 Hartwick Road, Suite 300

University of Maryland

College Park, MD 20740

Tel. (301) 405-7500

Web site: <http://www.mdsg.umd.edu/programs/research/reu/index.html>

Each summer, the Maryland Sea Grant REU program offers fourteen students the opportunity to conduct marine research on the Chesapeake Bay — the program is especially designed for students majoring in such fields as biology, chemistry, ecology, environmental science, engineering, physics, marine science and mathematics. During this 12-week REU program each student works with a mentor on an individual research project at one of two labs located on the Chesapeake Bay: the University of Maryland Center for Environmental Science's (UMCES) Chesapeake Biological Laboratory in Solomons, Maryland, or its Horn Point Laboratory in Cambridge, Maryland. The Maryland Sea Grant Program, with support from the National Science Foundation provides each fellow with a stipend of \$4,300, dormitory costs, and round-trip travel expenses.

Research Internships in Ocean Sciences at the Institute of Marine and Coastal Sciences at Rutgers University

REU Coordinator: Gary Taghon

Address: RIOS Program at Institute of Marine and Coastal Sciences

Rutgers University

71 Dudley Road

New Brunswick, NJ 08901

Email: taghon@marine.rutgers.edu

Web site: <http://marine.rutgers.edu/rios/>

RIOS is a program supported by a grant from the National Science Foundation, Research Experiences for Undergraduates. RIOS provides paid, 10-week summer internships to participate in a range of projects offered by the Institute of Marine and Coastal Sciences at Rutgers University. Continuing undergraduates pursuing majors in environmental sciences, engineering, geology, biology, physics, or mathematics are encouraged to apply. You will conduct an independent research project in a modern laboratory, or be part of field investigations in the region. You will be introduced to an active and collaborative research environment while interacting with scientific leaders in ocean and environmental research. In addition you will start building a network of contacts for graduate study and a future science career all while gaining collaborative research, proposal writing, and presentation skills. Participants are given a \$5000 stipend, free room, and paid travel expenses.

Summer Research Fellowships at Mount Desert Island Biological Laboratory

REU Coordinator: Judi Medlin

Address: Judi Medlin

Administrative Assistant

MDI Biological Laboratory

PO Box 35

Salisbury Cove, ME 04672

Email: jmedlin@mdibl.org

Dates: (varies)

Web site: http://www.mdibl.org/undergraduate_students.php

Each summer, over 40 undergraduates from around the United States participate in a research fellowship at MDIBL. Undergraduate students work in the laboratory of an MDIBL investigator on an independent project designed by the student and their mentor. Laboratory training can include techniques in molecular biology, physiology, and bioinformatics. Projects are wide-ranging and could include the comparative study of a laboratory animal (zebrafish, roundworm, sea urchin, zooplankton, shark, etc.), cultured cells, and biological tissue preparations. While most projects are laboratory-based, some include a field component. In pursuing their independent research project, students attend weekly seminars given by MDIBL scientists and invited speakers from other institutions discussing a variety of topics in the biological and environmental sciences. Most fellowships cover all expenses (room, board, travel) and pay a weekly stipend.

Bigelow Laboratory's summer REU Program

REU Coordinator: Rebecca Fowler

Address: REU Program

Bigelow Laboratory for Ocean Sciences

PO Box 475

West Boothbay Harbor, ME 04575-0475 USA

Tel. (207) 633-9600

Web site: <http://www.bigelow.org/education/reu/>

Undergraduates in Bigelow Laboratory's summer REU Program spend ten weeks at the Laboratory conducting independent research with guidance from a scientist mentor. The REU Program is designed to give students pursuing degrees in the sciences, mathematics and engineering a laboratory-based research experience with an emphasis on hands-on, state-of-the-art methods and technologies. REU students are immersed in the Bigelow community and participate in seminars, field trips, Laboratory outreach programs, social events, and more. Each student in the program is paired with a Bigelow scientist based on mutual research interests. During the ten weeks, students work with their mentors to identify a research question, develop a proposal, conduct their research, and prepare an abstract and poster. At the end of the program, students present their poster and give a talk at a student symposium. Research areas vary year to year, but include marine microbiology, ocean biogeochemistry, optical oceanography, remote sensing, bioinformatics, sensory biology and phytoplankton ecology. All housing expenses are covered by the program and 2012 participants will receive a \$5000 stipend for the ten weeks. Funds are also available for project expenses and travel to and from the Laboratory.

University of Alaska Southeast-Juneau Campus REU

REU Coordinator: Sherry Tamone

Address: Sherry Tamone, REU Coordinator

University of Alaska Southeast

11120 Glacier Hwy, Anderson Bld.

Juneau, AK 99801

Email: reu@uas.alaska.edu

Web site:

<http://www.uas.alaska.edu/artssciences/naturalsciences/biology/positionsandinternships/index.html>

The UAS Juneau Campus, located on Auke Bay, provides opportunities for hands-on research with marine invertebrates, mammals, active salmon streams and glacial watersheds. In addition to the Juneau area, field research projects may also take place in the Tongass rainforest, Gulf of Alaska or Glacier Bay National Park. During the 10 week program, REU students will conduct research under the guidance of UAS Biology faculty and collaborating research scientists. Students will participate in an introductory workshop and regular seminars that will include presentations by mentors on their research, training in the conduct of science, scientific ethics, selected field methods, designing scientific posters, and field and laboratory safety. Students will work intensively with their mentors on individual projects and present their results in a seminar at the completion of the program. Opportunities also exist to present at national meetings. Each student participant will receive a stipend of \$450 per week and housing while in Juneau. Up to \$450 in travel costs to Juneau and research travel costs within Alaska will also be provided.

The Whitney Laboratory Research Experience for Undergraduate program

REU Coordinator: Brenda Cannaliato

Address: Brenda Cannaliato

Undergraduate Coordinator

The Whitney Laboratory

9505 Ocean Shore Blvd.

St. Augustine, FL 32080

Tel. (904) 461-4000

Web site: http://www.whitney.ufl.edu/index.php?option=com_content&view=article&id=22&Itemid=36

The Whitney Laboratory REU offers an exceptional opportunity for the motivated undergraduate to participate in scientific research. If you are serious about science but have never had the opportunity to perform work as a scientist, then this program is for you. In cooperation with a faculty supervisor, students choose a project that fits both their interests and ongoing investigations of the Lab and that can be completed within the eleven-week training period during the summer. REU research-related activities include a research project mentored by experienced investigators, a weekly seminar by Whitney Lab faculty and post docs, training in scientific communication (written and spoken), statistics, and scientific ethics, and a seminar and interview with a former Whitney REU student. The REU Symposium is where summer interns describe the results of their summer research in oral and poster presentations. The student with the best poster presentation is awarded an all-expense paid trip to the national Sigma Xi undergraduate research conference. Undergraduates who qualify for the REU Program receive a competitive stipend, assistance with travel expenses, and free housing.

Aquatic Chemical Ecology (ACE) at Georgia Tech

REU Coordinator: Benita Black

Address: School of Biology

310 Ferst Dr.

Atlanta, Georgia 30332

Tel. (404) 385-7137

Web site: <http://www.biology.gatech.edu/undergraduate-program/>

ACE at Georgia Tech gives you the opportunity to perform exciting research with our faculty in the schools of Biology, Earth & Atmospheric Sciences, Chemistry & Biochemistry, Civil & Environmental Engineering, and Chemical & Biomolecular Engineering. You'll participate in research with one or more of our faculty, learn about careers in science and engineering, and see how scientists blend knowledge and skills from physics, chemistry and biology to investigate some of the most challenging problems in environmental sciences. We encourage applications from undergraduate students who are citizens or permanent residents of the U.S., especially attending universities other than Georgia Tech.

University of Massachusetts Boston REU

REU Coordinator: Alexa MacPherson

Address: Alexa MacPherson, REU Program Assistant

Department of Biology

University of Massachusetts Boston

Boston, MA 02125-3393

Tel. (617) 287-6600

Dates: June 4 - August 10, 2012

Web site: http://www.umb.edu/academics/csm/biology/beyond_the_classroom

This program provides opportunities to 10 undergraduate participants each summer to become immersed in a positive research experience and other enrichment activities. Each student carries out an independent research project under the close guidance of a faculty advisor. Close mentoring relationships and participation in a community of students engaged in research are key components of the experience. The program stresses the integration of diverse fields of biology, demonstrating common themes across the biological sciences and especially the connections between cell and molecular biology on the one hand, and ecology and conservation biology on the other. Student research projects span an array of biological problems, and students are paired with faculty mentors based on mutual scientific interests. The program helps students gain an understanding of how research is done and develop independence in research. In addition to research, students participate in enrichment activities that promote a sense of community among students and faculty, teach communication skills, and explore broader issues concerning the practice of science. These experiences occur during weekly discussions and workshops that focus on practical, personal, and ethical aspects of research. The program also features social activities and field trips in and around Boston Harbor, including a retreat at our Nantucket Field Station. The program ends with a research poster symposium. The program is designed to stimulate and support interest in biological research, prepare students for advanced study, and equip them to pursue research careers. Participants receive a stipend of \$5,000 for the 10-week period, plus a room and board allowance of \$2,600. Participants will be responsible for making their own housing arrangements. While there is no on-campus housing, apartments and rooms are widely available near the campus.

Woods Hole Oceanographic Institute Summer Fellowship/Minority Fellowship

REU Coordinator: Dr. James Yoder

Address: Undergraduate Programs Coordinator

Academic Programs Office MS #31

Woods Hole Oceanographic Institution

360 Woods Hole Road

Woods Hole, MA 02543-1541

Tel. (508) 289-2219

Dates: Arrive between the end of May and mid-June, stay for 10-12 weeks depending on their availability and that of their advisor.

Web site: <http://www.whoi.edu/page.do?pid=7802>

A research project is at the heart of the Summer Student and Minority Fellowship programs. All Fellows are expected to work on a project selected in collaboration with their sponsor(s) that will provide meaningful results in one summer's work. Project topics span the vast spectrum of research in ocean sciences and engineering conducted in WHOI's science departments and the Woods Hole Field Station of the U. S. Geological Survey (USGS). The summer season kicks off each year with a thoughtful and intriguing presentation from a member of our scientific or technical staff at the Annual Summer Student Banquet. Fellows have many occasions to interact with current MIT/WHOI Joint Program graduate students, from the Q&A session designed specifically for that purpose to the Ethics in Science Workshop. In addition, fellowship recipients have the opportunity to attend and participate in a busy schedule of talks, seminars and a hands-on, one-day, at-sea practicum cruise onboard the R/V Tioga focusing on data collection and sampling methods with advanced oceanographic technology and instruments. The cruise is especially designed for fellows and not only provides practical training but also brings the group together socially through a shared field experience. Summer Student Fellowship awards for the summer of 2012 carry a stipend of \$500 per week and Institution housing is provided for all Fellowship recipients.

Lamont Summer Intern Program

REU Coordinator: Dr. Dallas Abbott

Address: Dr. Dallas Abbott

Summer Internship Program

Lamont-Doherty Earth Observatory

Palisades, New York 10964

Email: dallas@ldeo.columbia.edu

Web site: <http://www.ldeo.columbia.edu/education/programs>

The Lamont-Doherty Summer Intern Program offers the chance to experience scientific research as an undergraduate. Applicants should have an interest in conducting research in the Earth or ocean sciences. Two previous Earth- or ocean-science courses are desirable if they are available to the student. All students are required to have at least one year of calculus. Students choosing research in geochemistry and chemical oceanography are required to have at least two semesters of college-level chemistry. Students choosing research in marine biology are required to have at least two semesters of college-level biology. Students choosing research in geophysics should have at least three semesters of college-level physics. The program features a hands-on research project under the supervision of a Columbia-affiliated scientist, special lectures, workshops and fieldtrips, free housing in an air-conditioned Columbia dormitory, and a 10-week stipend of \$5000.

Summer Undergraduate Research Fellowships in Oceanography at University of Rhode Island

REU Coordinator: Kim Carey

Address: 215 South Ferry Road, Narragansett, RI 02882-1197, USA

Tel. (401) 874-6627

Web site: <http://surfo.gso.uri.edu/~surfo/index.html>

We believe that exposure to basic research is a valuable component of an undergraduate education. We offer a select number of students the experience of working as part of a research group in developing problem-solving skills which may be applied in any career. More specifically, we want to share our enthusiasm for Oceanography with undergraduate students and make them aware that training in the basic sciences or engineering is both applicable and necessary for the complex challenges facing oceanographic researchers. The 3 basic goals of the SURFO program are to provide participants with an appreciation for the interdisciplinary character of Oceanography, an authentic research experience in a cutting-edge field of Oceanography, and an introduction to the graduate student lifestyle in Oceanography. The program can include lab work, data analysis, instrumentation development, dynamical modeling, or a research cruise. Students will receive a stipend of ~\$5000 for the 10 week program. Additional funds will be provided for housing.

Minorities in Marine and Environmental Sciences at South Carolina Department of Natural Resources

REU Coordinator: Peter Kingsley-Smith

Address: Dr. Peter Kingsley-Smith

SC Department of Natural Resources

Marine Resources Division

217 Fort Johnson Road

Charleston, SC 29422-2559

Tel. (843) 953-9840

Web site: <http://www.dnr.sc.gov/marine/minority/>

In spring 2012, interns will be selected to work for twelve weeks in Charleston, SC. Students will be evaluated via scheduled telephone interviews and the information presented in their applications. Mentors experienced in various fields of marine, environmental and coastal ocean science (including chemistry, marine biology, marine policy, toxicology, microbiology, fisheries science, marine, estuarine and wetland ecology) will assist interns in completing independent research projects. Students will develop their research project, while learning scientific problem solving, writing and presentation skills. At the conclusion of the program, students will complete written reports and make oral presentations of their summer research. Participants will also receive classroom instruction on topics that will assist them with completion of their research and presentations. Goals of the program include: Increasing the career and academic participation of minorities in the fields of marine, environmental and coastal ocean science, enhancing the knowledge and research/technical skills of minority students in the sciences while developing their confidence in preparing written and oral presentations, providing students the opportunity to interact with professional scientists to see first-hand the benefits of obtaining advanced degrees in marine, environmental, and administrative career development, and encouraging students to increase their qualifications in science fields by continuing their education through graduate school. Students will be offered a supportive yet challenging scientific experience: they will engage with scientific mentors to design and complete their own rigorous scientific project, take classes, participate in field work, present their work to peers, and have the chance to meet successful minority scientists. Students will receive financial support for the 12 week program.

Multicultural Initiative in the Marine Sciences at Western Washington University

REU Coordinator: Dr. Brian Bingham

Address: Dr. Brian Bingham

Shannon Point Marine Center

1900 Shannon Point Road

Anacortes, WA 98221

Tel. (360) 650-7400 ext 297

Application Deadline: November 9, 2012

Dates: January - June

Web site: <http://www.wwu.edu/mimsup/index.shtml>

The National Science Foundation-funded MIMSUP program is designed to increase diversity within the next generation of marine scientists. Participants receive intensive training in the marine sciences and in professional opportunities available to those who choose this career path. Applications are encouraged, in particular, from U.S. citizens belonging to groups currently underrepresented in the marine sciences (i.e., Native Americans, Alaskan Natives, African Americans, Latino/Hispanics and Pacific Islanders). Eight selected students spend two quarters at the Shannon Point Marine Center taking introductory and specialized courses in the marine sciences (31 quarter credit hours), attending seminars and workshops, exploring career opportunities, and engaging in supervised research. They also attend a regional or national scientific meeting. MIMSUP students participate in an outreach program, teaching marine science in the local public schools. After the program, students return to their home institutions to complete their undergraduate programs. Funding from the U.S. National Science Foundation provides full financial support to all students selected to participate in the program.

The Svalbard Research Experience for Undergraduates

REU Coordinator: Steven Roof

Address: Hampshire College

School of Natural Science

Amherst, MA 01002-5001

Email: sroof@hampshire.edu

Web site: <http://www.mtholyoke.edu/proj/svalbard/welcome.shtml>

This REU program focuses on understanding how high latitude glaciers, melt-water streams, and sedimentation in lakes and fjords respond to changing climate. Six undergraduate students have been selected each year beginning in the summer of 2004. Students formulate their own research questions, develop their project, and complete their field research during a five-week program in Svalbard, Norway. After the completion of the summer program, students complete their projects at their home institution during the following academic year as a senior thesis. A spring symposium brings all participants back together again with their final results. Selected students will receive full financial support for travel to and from Svalbard, fieldwork expenses, and a summer stipend.

Summer Internships in Aquatic Sciences at University of Wisconsin-Milwaukee

REU Coordinator: Dr. Carmen Aguilar

Address: Research Experience for Undergraduates Program

Center for Great Lakes Studies

UWM-WATER Institute

600 E. Greenfield Avenue

Milwaukee, WI 53204

Tel. (414) 382-1700

Web site: <http://home.freshwater.uwm.edu/reu/>

Confidence-building project completion is complemented by social interaction, seminars and academic stimulus, training in presentation, and discussion of a wide variety of career options. The experience is strongly enriched by the disciplinary diversity of faculty and staff at the facility, often working jointly on truly interdisciplinary research topics. It is designed to provide students with a college-tenure real-life experience in the life of practicing environmental scientists including both faculty and full-time, dedicated staff scientists. The focus is on research experience with optional offerings of workshops related to career development; graduate schools; writing, poster, and oral presentations; and a variety of informal gatherings. Students from across the nation have found answers to questions about the lives of career scientists in one of the highly relevant arenas of 21st century life. Data profile collected by REU students The program is structured as an immersion-level bench research opportunity which has been provided for more than 140 undergraduates nationwide during the last 16 years of the Research Experience for Undergraduates (REU) Program at the Center for Great Lakes Studies (CGLS). The interdisciplinary nature of CGLS provides positions in classical geology, geochemistry, physical chemistry, aquatic zoology, microbiology, molecular biology, fish biology/ecology/aquaculture, and biochemistry/physiology of aquatic organisms. Students develop a research proposal, learn appropriate analytical methods and apply them to their research, participate in related field sampling, and finally prepare and present poster and oral final reports. Interlaced with these activities are workshops on career opportunities, graduate school options, "lifetime highlights" of active scientists and prior REU students now in graduate school at CGLS, preparing reports, etc.

Mote Marine College Internship

Internship Coordinator:

Address: Mote Marine Laboratory and Aquarium

1600 Ken Thompson Parkway

Sarasota, FL 34236

Email: intern@mote.org

Dates: Varies

Web site:

<http://www.mote.org/index.php?src=gendocs&ref=College%20Internship%20Program%20Overview&category=Education>

Mote Internships allow college students and recent college graduates to gain valuable hands-on experience in Ocean Science research, conservation, education and support services. Internships are available in most departments in the laboratory. More than 125 college students and recent college graduates participate in this program annually. Internships are typically 10-14 weeks long, but can be longer with prior approval from your program manager. Due to Mote's status as a nonprofit research institution, positions offered by the Mote College Intern Program are unpaid. However, a limited number of scholarships are available to partially support the cost of living. Candidates must exhibit financial need and meet a minimum GPA requirement of 3.20 on a 4.0 scale to apply. Only candidates having a U.S. Social Security Number are eligible to apply for scholarship opportunities. Mote is unable to provide or arrange for intern housing. However, once candidates have accepted an internship offer, Mote is able to offer a small list of housing options and can also put interns in communication with one another so that they may arrange for shared housing. Interns should budget for up to \$115/week for housing including utilities.

Governor Tauese P.F. Sunia Memorial Coral Reef Conservation Summer Internship

Internship Coordinator: Nikki Lamp

Address: U.S. Fish and Wildlife Service-Southeast Region

1875 Century Blvd, Suite 200

Atlanta, GA 30345

Tel. (404) 679-7118

Website: <http://marine.rutgers.edu/main/IMCS-Opportunities-Internship/Fall-2012-Marine-Conservation-Internship.html>

This summer internship continues the Governor's legacy by providing an outstanding college or university student a unique opportunity to gain valuable, professionally formative experience in coral reef conservation policy and management, while also contributing to the overall efforts of the hosting agency (FWS) and the USCRTF. It provides an 8-10 week summer internship for an eligible student (see eligibility information below) interested in natural resource management and coral reef ecosystems to work at the Caribbean National Wildlife Refuge and contribute to the Guánica Bay / Rio Loco Watershed Partnership. The internship covers salary and transportation costs. The program is designed to provide the selected student with career-enhancing experience through work on coral reef conservation and management initiatives. The student will be involved with productive, hands-on job assignments in watershed management and natural resources conservation and enhancement as they relate to coral reef ecosystems and initiatives in the Caribbean area. The selected student will be paid by the FWS and must be willing to work on a full-time schedule during the summer break.