



Student Research and Funding Opportunities

Dear Faculty:

Each year in November, the Office for Research and Sponsored Programs prepares a special issue of our funding opportunities newsletter dedicated exclusively to student funding opportunities. This special issue is intended to inform you of a variety of research opportunities to which some of your students, upon your recommendation, may wish to apply. In most cases, these are Summer 2003 research opportunities with application due dates early in the new calendar year.

The programs listed below are not financial aid programs; rather, they represent a selection of research opportunities, internships or special scholarships for students with outstanding academic records and recognized potential. They are presented here in chronological order, with the earliest of due dates cited first. In each case, we have provided a URL from which you or your students can obtain additional information.

Many of the opportunities described herein are located at universities and laboratories beyond commuting distance of Hofstra University. However, students should note that most of these programs have made accommodations for housing and transportation, in addition to providing stipends and other costs.

We hope you find this listing useful; that you will pass the information along to your most deserving students; and, that you will provide these students with the guidance they may need as they complete their applications.

Thomas O. Murphy
Associate Provost for Research and Sponsored Programs

Budweiser Conservation Scholarship Program National Fish and Wildlife Foundation

URL: <http://www.nfwf.org/programs/budscholarship.htm>

Deadline: January 17, 2003

This scholarship program supports and promotes innovative research or study that seeks to respond to today's most pressing conservation issues. Ten scholarships of up to \$10,000 each will be awarded. The Conservation Scholarship Program is designed to respond to many of the most significant challenges in fish, wildlife and plant conservation in the United States, whether it is the sustainable use of natural resources, including sportfish and game, recovery of an endangered species, or control of invasive exotic species, by providing scholarships to eligible graduate and undergraduate students who are poised to make a significant contribution to the field of conservation. To be eligible for consideration, a student must be a U.S. citizen pursuing a graduate or undergraduate degree (sophomores and juniors in the current academic year only) in environmental science, natural resource management, biology, public policy, geography, political science or related disciplines.



Research Internships for Undergraduate Women, American Physical Society

URL: <http://www.aps.org/educ/cswp/ibmintern.html>

Deadline: January 31, 2003

The sponsor supports a research internship program for undergraduate women to encourage them to pursue graduate studies in science and engineering. Internships are undertaken at one of three IBM research locations (San Jose, CA,

Austin, TX, or Yorktown Heights, NY). The sponsor's Watson lab (NY) has a full range of research, as does the Almaden lab (CA), and the Austin lab focuses on software and systems. Research areas of the internship are individually chosen so as to optimize the match between the skills and interests of the student, and the ongoing research programs of the laboratory. Information about the sites and their research may be found at: <http://www.research.ibm.com>, <http://www.almaden.ibm.com>, <http://www.watson.ibm.com>, and <http://www.research.ibm.com/ar1/ar1ext/>. Eligible applicants must be females with sophomore or junior standing at a US college or university at the time of application; must be majoring in chemistry, physics, materials science or engineering, computer science or engineering, chemical, electrical, mechanical engineering; and must have a minimum 3.0 GPA.

Langley Aerospace Research Summer Scholars Program (LARSS) National Aeronautics & Space Administration

URL: <http://edu.larc.nasa.gov/larss/>

Deadline: February 1, 2003

Support is provided for in-residence research opportunities to undergraduate juniors and seniors and first year graduate students studying engineering or science disciplines of interest to the sponsor. Each student receives a stipend of \$4,500. Approximately 125 students will be selected. Program duration is ten weeks during the summer months. Selected disciplines of interest to the sponsor include: aeronautical engineering, mechanical engineering, electrical engineering, materials science, computer science, atmospheric science, astrophysics, physics, chemistry, or other related fields. The main objectives of the program are to encourage high-caliber college students to both pursue and earn graduate degrees and to enhance their interest in aerospace research by exposing them to the professional research resources and facilities of Langley Research Center. Applicants must be classified as a junior, senior, or first-year graduate student as of June 1, 2003 and have a cumulative grade point average of at least 3.0.



Summer Undergraduate Research Program Cold Spring Harbor Laboratory

URL: <http://www.cshl.org/URPsite/urphome.html>

Deadline: February 1, 2003

The sponsor provides support for instruction in the techniques of modern biology. Approximately twenty-five students from around the world will be accepted to the ten-week summer program. The program runs from June 8, 2003 through August 15, 2003. Students will work with senior laboratory staff members on independent research projects, specifically in the areas of: Cancer Biology; Neuroscience; Plant Biology; Cellular and Molecular Biology; Genetics; Macromolecular Structure; and Bioinformatics. The specific objectives of the URP program are to: give college undergraduates a taste of original research at the forefront of the biological sciences; encourage awareness of the physical and intellectual tools necessary for biological research; foster an awareness of the major problem areas currently under investigation in the biomedical and life sciences; and promote an acquaintance with researchers and the research environment. URP students will receive a stipend of \$3000 for their participation in the program. All room and board expenses are covered by the Program.

Summer Undergraduate Research Program 2003 in Molecular and Cellular Biosciences The Wadsworth Center, NYS Department of Health

URL: <http://www.wadsworth.org/educate/molcel.htm>

Deadline: February 1, 2003

The Wadsworth Center of the New York State Department of Health, located in Albany, hosts a Summer Undergraduate Research program focused on Molecular and Cellular Biosciences. Students are selected



from colleges across the country to work for 10 weeks (from early June through mid-August) on independent research projects in the laboratories of Wadsworth scientists. Students engage in research in a wide range of biological disciplines, including: microscopy and computer image analysis of cells and macromolecules; gene expression and regulation; immunology and infectious disease; x-ray crystallography and multidimensional NMR of proteins; protein biochemistry; electrophysiology of ion channels; neurobiology and neurotoxicology; and use of computers in sequence analysis and structure prediction. Students are provided with travel costs, housing, a food allowance and a stipend of \$3,600. Students are housed in a large Victorian house, located in a residential neighborhood within walking distance of the laboratories. Applicants are sought who are majoring in a natural science, computer science or mathematics; who will have completed their first, second or third year of study by the summer; and who are interested in attending graduate school with the goal of pursuing a career in science.

Global Change Education Program Summer Undergraduate Research Experience U.S. Department of Energy

URL: <http://www.atmos.anl.gov/GCEP/GCEPinfo.html>

Deadline: February 1, 2003

The U.S. Department of Energy's Office of Biological and Environmental Research (BER) has established the Global Change Education Program (GCEP) to promote undergraduate and graduate training in support of the Department's global change research activities. Global change research encompasses a wide variety of study areas, including atmospheric sciences, ecology, global carbon

cycles, climatology, and terrestrial processes. A major goal of GCEP is to involve undergraduate students at the end of their sophomore or junior year in BER-supported global change research, then continue this experience during subsequent undergraduate summers. The ten-week SURE 2003 program will be run in the summer of 2003, from June to August. The program will begin with a one-week orientation and focus session on global change research areas. The SURE program will be aimed primarily at undergraduates in their sophomore and junior year, but outstanding freshman applicants will also be considered. Successful applicants will be given travel and housing support, as well as a weekly stipend during the ten-week program.



Student Research Experiences at Oak Ridge National Laboratory Oak Ridge Institute for Science and Education

URL: <http://www.ornl.gov/orise/edu/ornl/gi-gugrgHERES.htm>

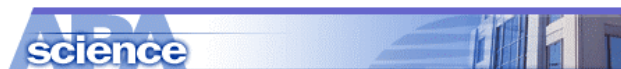
Deadline: February 1, 2003

The sponsor provides opportunities to students to participate in energy-related research. Weekly stipends vary with academic level. Appointment durations vary with academic level. Eligible applicants are undergraduate students and graduate students. Applicants must be citizens or permanent residents of the United States. The award includes one round-trip travel reimbursement, and a housing allowance. Relevant sciences include Chemical Sciences, Computer Science, Environmental Studies, Geology and Engineering.

American Psychological Association's Summer Science Institute

URL: <http://www.apa.org/science/ssi.html>

Deadline: February 6, 2003



The American Psychological Association (APA) Summer Science Institute (SSI) is a 9-day, intensive program designed to immerse students in the science of psychology. The Institute's goals for its students are to explore the intellectual, personal, and social processes of scientific inquiry and to experience cutting-edge psychological research through seminars and hands-on laboratory activities. The 2003 Summer Science Institute will be held at Washington University in St. Louis from June 14 through June 22, 2003. Approximately 32 students will be selected to participate. Eligibility for the 2003 SSI will be strictly limited to college students who will be freshmen or sophomores at the end of the 2002-2003 academic year (a.k.a. rising sophomores or rising juniors). Applicants need not be psychology majors, but should have had introductory psychology or equivalent preparation.

Arthur C. Parker Scholarship and National Science Foundation Scholarship Society for American Archaeology

URL: <http://www.saa.org/Aboutsaa/Awards/ac-parker.html>

Deadline: February 17, 2003

Four scholarships of \$3,000 each will support training in archaeological methods, including fieldwork, analytical techniques, and curation. Eligible applicants include high school seniors, college undergraduates and graduate students. Individuals may apply for these scholarships themselves, or they may be nominated by a current professor, high school teacher, or cultural preservation program supervisor.

Archival Internships Kennedy Library Foundation

John Fitzgerald Kennedy Library

URL: <http://www.cs.umb.edu/jfklibrary/intern.htm>

Deadline: February 25, 2003

The John Fitzgerald Kennedy Library, under a grant from the Kennedy Library Foundation, awards several paid archival internships each year to undergraduate and graduate students majoring in history, government, archival administration, library science, English, journalism, communications and other related disciplines. To be considered for summer internships, applications should be submitted by February 25 for review and notification of selection by April 1. Applicants for these positions will be accepted and internships will awarded on a continuous basis, depending on the needs of the staff. The Library requires that interns make a minimum commitment of 12 hours per week. Interns are paid at the rate of \$9.00 per hour. The Library will also consider proposals for unpaid internships, independent study projects, work-study employment, and internships undertaken for academic credit. For further information: <http://www.cs.umb.edu/jfklibrary/intern.htm>.

Undergraduate Scholarship Program in Biomedical and Behavioral Sciences National Institutes of Health

URL: <http://ugsp.info.nih.gov/InfoUGSP/glance.htm>

Deadline: February 28, 2003

The sponsor makes awards to students from disadvantaged backgrounds who are committed to careers in biomedical research. The scholarships pay for tuition and reasonable educational and living expenses up to \$20,000 per academic year. The sponsor expects to award up to fifteen scholarships by mid July 2003. Recipients are obligated to serve as paid employees in NIH research laboratories during the summer and after graduation. In addition to financial assistance, the scholarship program offers invaluable training and mentoring, as well as practical experience in a state-of-the art research setting. The goal is to help students from disadvantaged backgrounds pursue educational and career opportunities in biomedical, behavioral and social science research. Each scholar will be matched to an NIH researcher, who will serve as a mentor. Students will also attend formal seminars and participate in a variety of educational programs.

2003 Marine Sciences Summer Internship Program University of Delaware

URL: <http://www.ocean.udel.edu/level1/academics/undergrad/sharp/intern.html>

Deadline: February 28, 2003

Ten science, engineering, and mathematics undergraduates will be awarded 2003 summer internships to conduct guided research in marine science. Students between their junior

Marine Sciences Summer Internship



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 adviser (Marine Biology, Oceanography, Physical Ocean Science & Engineering) and present written and oral reports at the end of the summer. The program will run for 10 weeks (June 2-August 8). Interns will receive one credit and will be expected to attend weekly seminars presented by faculty and research staff. The program will take place at the university of Delaware's Graduate College of Marine Studies 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. Student support includes a \$3,300 stipend, dormitory fee, tuition for the one-credit course, and travel assistance for the 10-week session.

Department of Commerce Internship for Postsecondary Students Oak Ridge Institute for Science and Education

URL: <http://www.ornl.gov/orise/edu/DOC/gi-gugIPS.htm>

Deadlines: February 28, 2003

The sponsor provides opportunities for undergraduate and graduate students to participate in hands-on education and training related to the Department of Commerce mission. Research disciplines include computer sciences, engineering, life sciences, physical sciences and related business disciplines. Support includes a weekly stipend of \$400, a dislocation allowance of \$100 per week based on appointment location, limited travel reimbursement and accidental medical expense coverage. The appointment is ten weeks in the summer and sixteen weeks during the fall or spring semester.

Summer Undergraduate Research in Biology (SURB) Program, Towson University

URL: <http://www.towson.edu/biology/reu/>

Deadline: March 3, 2003

The Biology Department of Towson University in Maryland announces the Summer Undergraduate Research in Biology (SURB) Program. The program is funded by the National Science Foundation (REU), the National Institutes of Health (Bridges), the Maryland Educators Summer Research Program and Towson University. This program is designed for students with an authentic interest in careers in experimental research in the biological sciences and future and present science teachers. The Program is particularly geared towards students with no prior research experience and students from groups underrepresented in the sciences. Preference will be given to individuals completing their junior year, although students of other standing expressing genuine interest in research or science-related careers will be considered. Participating students will receive a stipend of \$3,000, housing and a debit card for meals at university cafeterias.

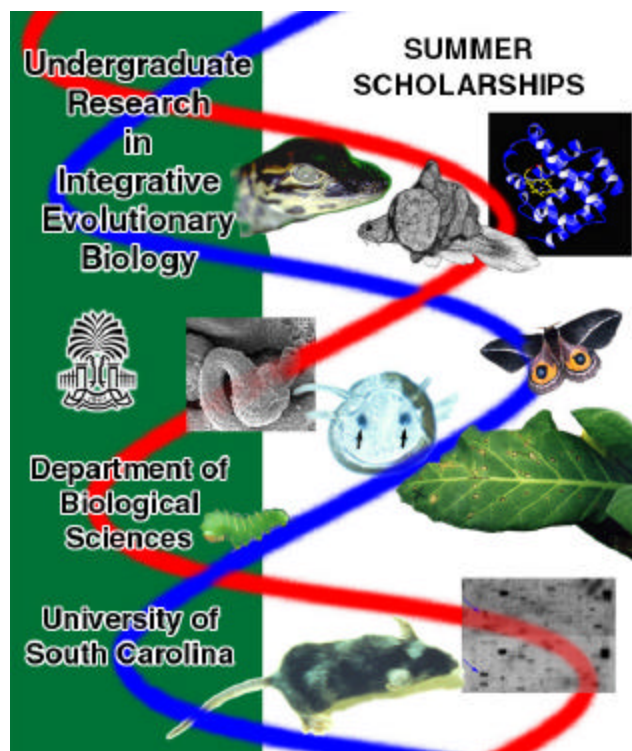


Undergraduate Research in Integrative Evolutionary Biology, University of South Carolina

URL: <http://www.biol.sc.edu/evolution.html>

Deadline: March 3, 2003

This program is for undergraduate students interested in gaining a hands on experience in research in evolutionary biology. The program emphasizes the interface between molecular genetics and organismal-level processes. Students will learn about hypothesis generation and testing, as well as the techniques and experimental designs employed in molecular biology and one or more other subspecialty areas – including behavior, life history evolution, systematics, population biology, or ecological physiology. Students will present summaries of their work in mini-symposium at the end of the summer. Students are invited to apply from any academic institution except the Columbia campus of the University of South Carolina. Students from underrepresented groups and smaller undergraduate institutions are especially encouraged to apply. Students will receive a \$3,000 stipend and campus housing.





Office of Fellowships

Smithsonian Opportunities for Research and Study

2002 - 2003

In this issue of our newsletter, we provide a small sampling of the wide range of fellowships and internships available through the Smithsonian Institution. For a complete listing and detailed information regarding these programs, visit:

<http://www.si.edu/ofg/internopp.htm>

Current offerings include:

James E. Webb Internship Program for Minority Undergraduate Seniors and Graduate Students in Business and Public Administration, Smithsonian Institution

URL: <http://www.si.edu/ofg/intern.htm#iofg>

Deadline: February 1, 2003

The sponsor awards stipends to support internship projects at the Smithsonian Institution. The opportunity is intended to increase participation of minority groups who are underrepresented in the management of scientific and cultural organizations. Interns are placed in offices, museums, and research institutes throughout the Smithsonian Institution. Students are generally expected to have an overall G.P.A. of 3.0 or its equivalent. Internships are full-time (forty hours per week), ten week appointments during the summer. Stipend awards are \$400 per week, with additional travel allowances offered in some cases.

National Air and Space Museum Internships Smithsonian Institution

URL: <http://www.si.edu/ofg/intern.htm#inasm>

Deadline: February 15, 2003

Ten-week internships are offered during the summer semester to undergraduate and graduate students studying museology, history, aviation, space science, photography, journalism, education, aircraft restoration and preservation, earth and planetary studies, archives, development, exhibits, public affairs, science and library disciplines.

Hirshorn Museum and Sculpture Garden Internship Smithsonian Institution

URL: <http://www.si.edu/ofg/intern.htm>

Deadline: March 1, 2003

Summer internships are offered for college juniors and seniors who have completed at least twelve semester hours in art history. This is a competitive program through which interns are placed in one of several departments in the museum. The internship is for ten weeks. Stipends vary.

National Museum of American Art Summer Internships Smithsonian Institution

<http://www.si.edu/ofg/intern.htm>

Deadline: March 1, 2003

The sponsor provides support for summer internships for undergraduates with little or no previous museum experience. The internships are for a duration of eight weeks in the summer and a stipend is provided. The program matches students' career objectives with the activities of the professional staff in one office. Academic backgrounds may include art history, American studies, American history, studio art or similar disciplines.

Internships in Geoscience and Public Policy, American Geological Institute

URL: <http://www.agiweb.org/gapac/internsu.html>

Deadline: March 15, 2003

Support is provided for outstanding geoscience students with a strong interest in federal science policy for the summer internship program in geoscience and public policy. The sponsor is planning to support three interns during the summer of 2003 at a fixed stipend of \$3,500. Duration is twelve weeks. The internship provides a unique opportunity to gain a first-hand understanding of the legislative process and the operation of executive-branch agencies by working in the office of the sponsor's Government Affairs Program. The program actively works with Congress and federal agencies to foster sound public policy in areas that affect geoscientists, including water, energy, and mineral resources; geologic hazards; environmental protection; and federal funding for geoscience research and education.

Underrepresented Minority Dissertation Research Grants in Mental Health

National Institute of Mental Health/NIH/DHHS

URL: <http://grants.nih.gov/grants/guide/pa-files/PAR-99-139.html>

Deadlines: April 10, 2003 and August 10, 2003

The sponsor provides support to stimulate and encourage underrepresented minority doctoral candidates to pursue research careers in any area relevant to mental health and/or mental disorders. The intent of the dissertation research grants is to attract larger numbers of underrepresented minority students as mental health investigators and to assist in providing a positive and constructive research experience that will stimulate them to pursue research careers in this field. The student applicant must be a registered doctoral candidate. All requirements for the doctoral degree (excluding the clinical internship requirement) other than the dissertation must be completed by the time of the award. The mechanism of support is the National Institutes of Health (NIH) small grant (R03). Grants to support dissertation research will provide no more than \$25,000 for one year in direct costs.

Graduate Fellowships, Hudson River Foundation

URL: <http://www.hudsonriver.org/cfp2003.pdf>

Deadline: April 14, 2003

The Hudson River Foundation will provide up to six fellowships to support scientific, ecological and related public policy research on issues and matters of concern to the Hudson River, its tributaries and its drainage basin, with emphasis on the Hudson River ecosystem and its fishery resources. The sponsor's emphasis is on mitigating fishery impacts caused by power plants, information needed to manage fishery resources of the Hudson River, understanding factors related to the abundance and structure of fish populations, and gaining knowledge of the Hudson River ecosystem. The geographical area of primary interest is the estuarine portion of the river (the mouth of New York Harbor to Troy Dam, including the waterways and tributaries to the Harbor). Proposals will be considered that relate to any part of the watershed or nearby coastal areas (those that either serve as seasonal habitats for biota of the estuary or influence the physical, chemical, or biological aspects of the estuary in other ways). Applicants must be full-time master's or doctoral level students enrolled in accredited graduate programs. Awards to master's level students will consist of a stipend of \$11,000 for one year, and an incidentals research budget of \$1,000.

Scholarships for Undergraduate Students

Radio-Television News Directors Association and Foundation (RTNDA)

URL: <http://www.rtnf.org/asfi/scholarships/undergrad.shtml>

Deadline: May 5, 2003

All scholarships are open to enrolled students (freshmen excluded) who are pursuing careers in radio and television news. Winners of the Ed Bradley, Carole Simpson, Lou & Carole Prato Sports Reporting and Mike Reynolds Scholarships also receive an expenses-paid trip to the RTNDA International Conference. Candidates must be a full-time college student whose career objective is electronic journalism and have at least one full year of college remaining. To receive an award winners must be officially enrolled in college and be in good standing. Scholarships are paid in semi-annual installments for one year of study. Included are: The Ed Bradley Scholarship; The Ken Kashiwahara Scholarship; The Carole Simpson Scholarship; The Lou and Carole Prato Sports Reporting Scholarship; The Mike Reynolds Journalism Scholarship; The George Foreman Tribute to Lyndon B. Johnson Scholarship; and, nine other undergraduate scholarships of \$1,000 each named in memory of the pioneers in the field of radio and television news.



Science & Engineering Program for Women and Minorities Brookhaven National Laboratory

Contact: Rosa Palmore, Diversity Office, BNL, P.O. Box 5000, Upton NY 11973 (Tel: 631-344-2703)

Deadline: April 30, 2003

Located about forty miles east of Hofstra on Long Island, Brookhaven National Laboratory provides ten-week internships during the summer to undergraduate students who are women and minorities. Internships are available in various disciplines within the Laboratory. Preference is given to students who live in proximity to the Laboratory as no housing is available under this program. Contact Rosa Palmore, whose address is cited above, or via e-mail at palmore@bnl.gov.

Grants for Improving Doctoral Dissertation Research National Science Foundation

URL: <http://www.nsf.gov>

Deadlines: January 15, 2003 and July 15, 2003

The National Science Foundation's Division of Social, Behavioral, and Economic Research awards grants to doctoral students to improve the quality of dissertation research. These grants provide funds for items not normally available through the student's university. These grants also allow doctoral students to undertake significant data-gathering projects and to conduct field research in settings away from their home campus that would not otherwise be possible. They may be used for data collection and sample survey costs, microfilms and other forms of specialized data, payments to subjects or informants, specialized research equipment, analysis and services not otherwise available, supplies and travel to specialized facilities or field research locations and partial living expenses for conducting necessary research away from the student's university. Proposals are judged on the basis of their scientific merit, the theoretical importance of the research question and the appropriateness of the proposed data and methodology to be used in addressing the question. Students who wish to apply for doctoral dissertation improvement grants should obtain information from the Division's relevant program., which include Social Psychology and Human Cognition and Perception.

The **Social Psychology Program** at NSF supports basic research on human social behavior, including cultural differences and development over the life span. Among the many research topics supported are: attitude formation and change, social cognition, personality processes, interpersonal relations and group processes, the self, emotion, social comparison and social influence, the social psychology of health, and the psychophysiological correlates of social behavior.

The **Human Cognition and Perception Program** supports research on cognition, perception and action, including the development of these capacities. Emphasis is on research strongly grounded in theory. Research topics include vision, audition, haptics, attention, memory, reasoning, written and spoken discourse, motor control, and developmental issues in all topic areas. The program encompasses a wide range of theoretical perspectives such as symbolic computation, connectionism, ecological, nonlinear dynamics, and complex systems and a variety of methodologies including both experimental studies and modeling. Research involving acquired or developmental deficits is appropriate if the results speak to basic issues of cognition, perception or action.

The Foundation welcomes proposals on behalf of doctoral students at U.S. universities who are about to undertake their dissertation research. The proposal must be submitted through regular university channels by the dissertation advisor on behalf of the graduate student. The graduate student may be listed as an additional Principal Investigator. A proposal may be submitted while the student is completing other requirements for the doctorate. The Foundation strongly encourages dissertation improvement grant proposals in behalf of women, minorities and persons with disabilities.

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www.hofstra.edu/grants