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Now’s the Time to Submit That Proposal: Many USDA and NSF Deadlines Coming Soon!

If you’re thinking about writing a proposal to USDA or NSF, you will find many deadlines coming up soon. Many of the “deadlines” for NSF are actually “target dates”, meaning that if you submit a proposal after the target date it will still be reviewed, although it may miss the next review committee.

NSF’s Biology Directorate offers target dates in January and July, and many programs and clusters receive proposals on these dates. You will find a variety of upcoming Biology Directorate grant opportunities in this newsletter. However, not every opportunity can be listed in limited space so to see all deadlines go to http://www.nsf.gov/dir/index.jsp?org=BIO and review the “Recently Announced Funding Opportunities” and the “Upcoming Due Dates” sections.

The US Department of Agriculture upcoming grant opportunities can be found at: http://www.csrees.usda.gov/fo/funding.cfm, where you can sort by name or date, or http://www.csrees.usda.gov/fo/funding.cfm, where you can choose an emphasis area, program or eligibility group.

One other access point for upcoming grant deadlines is grants.gov. Now touted as the “single access point for over 1,000 grant programs offered by all Federal grant making agencies,” http://www.grants.gov can help you locate a wide variety of funding opportunities.
Academy of Natural Sciences
Research Experiences for Undergraduates Fellowships

REU Coordinator
The Academy of Natural Sciences
1900 Benjamin Franklin Parkway
Philadelphia, PA 19103
E-mail: reucoordinator@acnatsci.org
Web Site: http://www.acnatsci.org/
DEADLINE: 03/02/2007

The Academy of Natural Sciences of Philadelphia offers 10-week summer internships for undergraduates, through the National Science Foundation’s (NSF) Research Programs for Undergraduates (REU). The Academy's REU program is dedicated to training students in research based on the Academy's world-renowned collections in Botany, Ichthyology, Ornithology, Entomology, Malacology, and Paleontology as well as our Library and Archives. Research staff at the Academy work in systematics, natural history, evolutionary biology, and ecology. This program offers a diverse array of research experiences, which include field trips, workshops, and seminars. Each student works on a project with an academy scientist mentor. Example research areas include: revisionary systematics or taxonomy of a group of organisms, evolutionary and systematic studies using morphological or molecular techniques, biogeography, bioinformatics, aquatic ecology, and the history of natural science. A list of research projects is included below. Students planning graduate study and careers in systematic and evolutionary biology will find the REU program especially valuable.

SUPPORT PROVIDED: The Academy will pay for travel to and from Philadelphia, housing and expenses for supplies, field trips, and research. All students will live in dormitories or apartments adjacent to the Academy of Natural Sciences in the heart of the Museum district of Philadelphia. Each student will receive a stipend of $350 per week.

APPLICANT INFORMATION: Applicants must be U.S. citizens or permanent residents and enrolled in a college or university (i.e., entering your sophomore, junior, or senior year after completing our summer program). Participants must commit to full participation in the 10-week program, which runs from the first full week of June until mid-August.

APPLICATION INFORMATION: Applicants will be required to provide: (1) one-page statement of intent stating career goals and how this experience will help meet these goals; (2) transcript (we will accept unofficial transcripts; official transcripts will be requested from all accepted applicants); (3) two letters of recommendation (email letters will be accepted from official workplace email addresses). There is no actual application form. Send application materials to: REU Coordinator, above. Applications for Summer 2007 will be accepted January 15 to March 2, 2007. If applicants have questions, please contact: reucoordinator@acnatsci.org.

Agriculture (Department of)
Cooperative State Research Education and Extension Service (CSREES)
Biology of Plant-Microbe Associations

Dr. Ann Lichens-Park, Program Leader
Mark Poth, Director, Competitive Programs
The Biology of Plant-Microbe Associations program invites both fundamental and mission-linked applications for innovative research in the following priority areas: 1. Molecular mechanisms of disease or resistance interactions between microbial pathogens and their host plants; 2) Molecular mechanisms of interactions between microbes and their plant hosts which positively influence plant productivity; 3) The influence of environmental factors on microbial survival and spread; and 4) Epidemiological studies which address spread and invasion of plant-associated microbes.

**FUNDING:** Grants for this program will not exceed $400,000 (including indirect costs) for project periods of 2-4 years. The total amount of support available for this program will be approximately $5.4 million. For research projects, unless otherwise indicated, cost sharing or matching is not required for NRI awards.

**ELIGIBILITY:** State agricultural experiment stations, all colleges and universities, other research institutions and organizations, Federal agencies, national laboratories, private organizations or corporations, and individuals are eligible to apply for and to receive a competitive grant. Investigators are encouraged to contact the Program Leader(s) regarding questions about suitability of research topics and integrated activities. Electronic applications must be submitted by 5:00 P.M., Eastern Time, December 14, 2006.

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**Agriculture (Department of)**

*Cooperative State Research Education and Extension Service (CSREES)*

*Agricultural Genomics and Biosecurity Program*

*Plant Genome: Applied Plant Genomics Coordinated Agricultural Project (CAP)*

Dr. Ed Kaleikau, National Program Leader
Mark Poth, Director, Competitive Programs

1400 Independence Avenue, S.W., Stop 2201
Washington, DC 20250-2201

Phone: (202)401-1931 or -5244 Fax: (202)401-6071 or -2653

E-mail: ekaleikau@csrees.usda.gov or mpoth@csrees.usda.gov


**DEADLINES:** 12/06/2006 (Letter of Intent) 02/14/2007 (Full Proposal)

The applied plant genomics Coordinated Agricultural Project (CAP) element is seeking applications for a community of researchers, educators, and extension specialists to focus on large-scale application and translation of genome discoveries and technology for U.S. crop or forestry improvement.

**SUPPORT PROVIDED:** The program element anticipates making one integrated Coordinated Agricultural Project (CAP) award that will not exceed a total budget (including indirect costs) of $5.0 million for a period of time not to exceed 4 years. For research projects, unless otherwise indicated, cost sharing or matching is not required for NRI awards. For applications proposing research projects, support will be provided through Standard Research Grants, Conferences, Postdoctoral Fellowships, New Investigator Awards, and Strengthening Awards.
APPLICATION INFORMATION: Investigators are encouraged to contact the Program Leader(s) regarding questions about suitability of research topics and integrated activities. A letter of intent is required by December 6, 2006. Electronic applications must be submitted by 5:00 P.M., Eastern Time, February 14, 2007.

Agriculture (Department of)
Cooperative State Research Education and Extension Service (CSREES)
National Research Initiative Competitive Grants Pgm (NRI CGP) FY07
Agricultural Genomics and Biosecurity Program
Plant Genome: Functional Genomics

Dr. Ed Kaleikau, National Program Leader
Mark Poth, Director, Competitive Programs
1400 Independence Avenue, S.W., Stop 2201
Washington, DC 20250-2201
Phone: (202)401-1931 or -5244 Fax: (202)401-6071 or -2653
E-mail: ekaleikau@csrees.usda.gov or mpoth@csrees.usda.gov
DEADLINE: 02/14/2007

The Plant Functional Genomics program will focus on assessing gene function through development and application of genome-wide experimental approaches in economically significant specialty fruit, vegetable, and ornamental plants in Solanaceae (e.g. pepper, petunia, potato, tomato, etc.) for U.S. agriculture.

SUPPORT PROVIDED: The program element plans to make 5 standard research awards that will not exceed $400,000 (including indirect costs) for project periods of 2-3 years. For research projects, unless otherwise indicated, cost sharing or matching is not required for NRI awards. For applications proposing research projects, support will be provided through Standard Research Grants, Conferences, Postdoctoral Fellowships, New Investigator Awards, and Strengthening Awards.

APPLICATION INFORMATION: Investigators are encouraged to contact the Program Leader(s) regarding questions about suitability of research topics and integrated activities. Electronic applications must be submitted by 5:00 P.M., Eastern Time, February 14, 2007.

Agriculture (Department of)
Cooperative State Research Education and Extension Service (CSREES)
Agricultural Production and Value-Added Processing Program
Plant Biology: Growth and Development

Dr. Liang-Shiou Lin, Program Leader
Mark Poth, Director, Competitive Programs
1400 Independence Avenue, S.W., Stop 2201
Washington, DC 20250-2201
Phone: (202)401-5042 or -5244 Fax: (202)401-6488 or -2653
E-mail: llin@csrees.usda.gov or mpoth@csrees.usda.gov
The goal of the Plant Biology: Growth and Development program is to provide such knowledge over various phases of the plant life cycle to improve crop plants through modification of plant growth patterns or developmental processes.

SUPPORT PROVIDED: Proposed budget requests must not exceed $400,000 (including indirect costs) for research projects for project periods of 2-4 years. For research projects, unless otherwise indicated, cost sharing or matching is not required for NRI awards. For applications proposing research projects, support will be provided through Standard Research Grants, Conferences, Postdoctoral Fellowships, New Investigator Awards, and Strengthening Awards.

APPLICATION INFORMATION: Investigators are encouraged to contact the Program Leader regarding questions about suitability of research topics and integrated activities. A letter of intent is required by December 6, 2006. Electronic applications must be submitted through http://www.grants.gov/ by 5:00 P.M., Eastern Time, February 14, 2007.

The goal of the Plant Biology: Biochemistry program element is to provide basic knowledge about biochemical processes, pathways, and interactions in agriculturally and economically important plants and related organisms.

SUPPORT PROVIDED: Proposed budget requests must not exceed $400,000 (including indirect costs) for research projects for project periods of 2-4 years. For research projects, unless otherwise indicated, cost sharing or matching is not required for NRI awards. For applications proposing research projects, support will be provided through Standard Research Grants, Conferences, Postdoctoral Fellowships, New Investigator Awards and Strengthening Awards. APPLICATION INFORMATION: Investigators are encouraged to contact the Program Leader regarding questions about suitability of research topics and integrated activities. A letter of intent is required by December 6, 2006. Electronic applications must be submitted through http://www.grants.gov/ by 5:00 P.M., Eastern Time, February 14, 2007.
Agriculture (Department of)
Cooperative State Research Education and Extension Service (CSREES)
Agroecosystems and Rural Prosperity Program
Biology of Weedy and Invasive Species in Agroecosystems

Dr. Michael Bowers, Program Leader
Mark Poth, Director, Competitive Programs
1400 Independence Avenue, S.W., Stop 2201
Washington, DC 20250-2201
Phone: (202)401-4510 or -5244  Fax: (202)401-1706 or -2653
E-mail: mbowers@csrees.usda.gov or mpoth@csrees.usda.gov
DEADLINES: 12/06/2006 (Letter of Intent)  02/14/2007 (Full Proposal)

The goal of the Biology of Weedy and Invasive Species in Agroecosystems program is to support inter-disciplinary experimental, observational, theoretical, and modeling studies of weedy and invasive species that lead to ecologically and economically rational strategies for management, control, or elimination.

SUPPORT PROVIDED: Proposed research project budget requests must not exceed $400,000 (including indirect costs) and proposed integrated project budget requests must not exceed $500,000 (including indirect costs) for project periods of 2-4 years. For research projects, unless otherwise indicated, cost sharing or matching is not required for NRI awards. For applications proposing research projects, support will be provided through Standard Research Grants, Conferences, Postdoctoral Fellowships, New Investigator Awards, and Strengthening Awards. APPLICATION INFORMATION: Investigators are encouraged to contact the Program Leader(s) regarding questions about suitability of research topics and integrated activities. A letter of intent is required by December 6, 2006. Electronic applications must be submitted through http://www.grants.gov/ by 5:00 P.M., Eastern Time, February 14, 2007.

Agriculture (Department of)
Cooperative State Research Education and Extension Service (CSREES)
National Research Initiative Competitive Grants Pgm (NRICGP) FY07
Agroecosystems and Rural Prosperity Program
Soil Processes

Dr. Nancy Cavallaro, Program Leader
Mark Poth, Director, Competitive Programs
1400 Independence Avenue, S.W., Stop 2201
Washington, DC 20250-2201
Phone: (202)401-4022 or -5244  Fax: (202)401-6071 or -2653
E-mail: ncavallaro@csrees.usda.gov or mpoth@csrees.usda.gov
DEADLINE: 12/06/2006 (Letter of Intent)  02/14/2007 (Full Proposal)

The Soil Processes program seeks to generate science-based knowledge that will lead to development, adoption and implementation of practices and tools that will ensure improved soil health and productivity. SUPPORT PROVIDED: Proposed budget requests must not exceed $400,000 (including indirect costs) for research project periods of 2-4 years. Budget requests over $325,000 are expected to be multi-institutional. For research projects, unless otherwise indicated, cost sharing or matching is not required for
NRI awards. For applications proposing research projects, support will be provided through Standard Research Grants, Conferences, Postdoctoral Fellowships, New Investigator Awards, and Strengthening Awards. APPLICATION INFORMATION: Investigators are encouraged to contact the Program Leader(s) regarding questions about suitability of research topics and integrated activities. The letter of intent is required by December 6, 2006. Electronic applications must be submitted through http://www.grants.gov/ by 5:00 P.M., Eastern Time, February 14, 2007.

**Agriculture (Department of)**

*Cooperative State Research Education and Extension Service (CSREES)*

*National Research Initiative Competitive Grants Pgm (NRICGP) FY07*

**Agroecosystems and Rural Prosperity Program**

**Water and Watersheds**

Ms. Mary Ann Rozum, Program Leader  
Mark Poth, Director, Competitive Programs  
1400 Independence Avenue, S.W., Stop 2201  
Washington, DC 20250-2201  
Phone: (202)401-4533 or -5244  
Fax: (202)401-1706 or -2653  
E-mail: mrozum@csrees.usda.gov or mpoth@csrees.usda.gov  

DEADLINE: 01/17/2007

The goals of the Water and Watersheds program are to protect and enhance the natural resource base and environment by improving and maintaining healthy watershed habitat and water supply protection; improve the quality of life in rural America through adequate clean water supplies; and protect food safety through clean irrigation and livestock drinking water supplies.

SUPPORT PROVIDED: Grants for this program will not exceed $400,000 (including indirect costs) for research projects for project periods of 2-4 years. For research projects, unless otherwise indicated, cost sharing or matching is not required for NRI awards. For applications proposing research projects, support will be provided through Standard Research Grants, Conferences, Postdoctoral Fellowships, New Investigator Awards, and Strengthening Awards.

APPLICATION INFORMATION: Investigators are encouraged to contact the Program Leader(s) regarding questions about suitability of research topics and integrated activities. Electronic applications must be submitted through http://www.grants.gov/ by 5:00 P.M., Eastern Time, January 17, 2007.

**Agriculture (Department of)**

*Cooperative State Research Education and Extension Service (CSREES)*

*National Research Initiative Competitive Grants Pgm (NRICGP) FY07*

**Nutrition, Food Safety and Quality Program**

**Epidemiological Approaches for Food Safety**

Dr. Mary E. Torrence, Program Leader  
Mark Poth, Director, Competitive Programs
The Cooperative State Research, Education, and Extension Service (CSREES) requests applications for the National Research Initiative (NRI) Competitive Grants Program to support high priority fundamental and mission-linked research. The Epidemiological Approaches for Food Safety research program seeks to develop an understanding of the multiple factors involved in food safety and provides the science-based data for policy decisions requires epidemiological studies. SUPPORT PROVIDED: Proposed budget requests must not exceed $1 million for standard research or integrated project for periods of 3-4 years. For research projects, unless otherwise indicated, cost sharing or matching is not required for NRI awards. For applications proposing research projects, support will be provided through Standard Research Grants, Conferences, Postdoctoral Fellowships, New Investigator Awards, and Strengthening Awards. APPLICATION INFORMATION: Investigators are encouraged to contact the Program Leader(s) regarding questions about suitability of research topics and integrated activities. Electronic applications must be submitted through http://www.grants.gov/ by 5:00 P.M., Eastern Time, December 14, 2006.

Agriculture (Department of)
Cooperative State Research Education and Extension Service (CSREES)
National Research Initiative Competitive Grants Pgm (NRI CGP) FY07
Nutrition, Food Safety and Quality Program
Food Safety

Dr. Chris Wozniak, Program Leader
Mark Poth, Director, Competitive Programs
1400 Independence Avenue, S.W., Stop 2201
Washington, DC 20250-2201
Phone: (202)401-6020 or -5244 Fax: (202)401-6156 or -2653
E-mail: cwozniak@csrees.usda.gov or mpoth@csrees.usda.gov
DEADLINE: 12/14/2006

The Cooperative State Research, Education, and Extension Service (CSREES) requests applications for the National Research Initiative (NRI) Competitive Grants Program to support high priority fundamental and mission-linked research. One of the main objectives of the Food Safety program is to fund research efforts which result in a demonstrable reduction in food-borne illness. This program supports hypothesis driven research that seeks to increase our knowledge of microbial ecology with regard to the routes of contamination of food; this includes on-farm investigations, post-harvest incidence, processing, and distribution of food. Aspects of microbial ecology that provide for avenues of intervention and mitigation of food-borne illnesses or toxicities are also relevant to this program. SUPPORT PROVIDED: Application budget requests must not exceed $400,000 (including indirect costs) for project periods of 2-4 years. For research projects, unless otherwise indicated, cost sharing or matching is not required for NRI awards. For applications proposing research projects, support will be
provided through Standard Research Grants, Conferences, Postdoctoral Fellowships, New Investigator Awards, and Strengthening Awards.

APPLICATION INFORMATION: Investigators are encouraged to contact the Program Leader(s) regarding questions about suitability of research topics and integrated activities. Electronic applications must be submitted through http://www.grants.gov/ by 5:00 P.M., Eastern Time, December 14, 2006.

**Agriculture (Department of)**

**Cooperative State Research Education and Extension Service (CSREES)**

**Science and Education Resources Development (SERD)**

**Higher Education Programs (HEP)**

**Tribal Colleges Research Grants Program (TCRGP)**

Saleia Afele-Faamuli, National Program Leader  
Higher Education Programs  
1400 Independence Avenue, SW, Stop 2201  
Washington, DC  20250-2201  
Phone: (202)720-0384  Fax: (202)720-4924  
E-mail: sfaamuli@csrees.usda.gov  
DEADLINE: 12/28/2006

The Tribal Colleges Research Grants Program (TCRGP) was initiated in FY 2000 to assist 1994 Land-Grant Institutions (Tribal Colleges) to conduct agricultural research that addresses high priority concerns of tribal, national, or multistate significance. Awards are to be made on the basis of a competitive process. Grants shall support investigative and analytical studies in the food and agricultural sciences. Eligible institutions may propose projects in any discipline(s) of the food and agricultural sciences. There are no limits on the specific subject matter/emphasis areas to be supported.

SUPPORT PROVIDED: The range of awards is $75,000.00 to $150,000. Project periods may range from 24 to 36 months. An institution may be awarded a maximum of one grant as the lead institution on a project application.

APPLICANT INFORMATION: Applications may be submitted by any of the thirty-three 1994 Land-Grant Institutions (see the website above). Award recipients may subcontract to organizations not eligible to apply provided such organizations are necessary for the conduct of the project.

APPLICATION INFORMATION: Applications must be received by 5:00 p.m., Eastern Time, December 28, 2006. Applications received after this deadline will not be considered for funding.

**Agriculture (Department of)**

**Cooperative State Research Education and Extension Service (CSREES)**

**Special Research Grants Program**

**Potato Research**

Ann Marie Thro, National Program Leader  
Plant and Animal Systems  
1400 Independence Avenue, SW, Stop 2201  
Washington, DC  20250-2201
The Potato Research Program intends to support potato (Solanum tuberosum L.) research that focuses on varietal development/testing and whose output will be or include potato varieties. As used herein, varietal development/testing is research using traditional and biotechnological genetics to develop improved potato variety(ies). Aspects of evaluation, screening and testing must support or complement the development of improved varieties.

SUPPORT PROVIDED: There is no commitment by USDA to fund any particular application or to make a specific number of awards. The anticipated amount available for support of this program in FY 2007 is approximately $1,300,000.

APPLICANT INFORMATION: State agricultural experiment stations, land-grant colleges and universities, research foundations established by land-grant colleges and universities, colleges and universities receiving funds under the Act of October 10, 1962, as amended (16 U.S.C. 582a et seq.), and accredited schools or colleges of veterinary medicine. See the RFA for specific eligibility requirements.

APPLICATION INFORMATION: Applications must be received by Grants.gov by close of business on December 20, 2006 (5:00 p.m. Eastern Time).

Biotechnology Research and Development Corporation
Research Grants Program

Research Grants Program
1815 North University
Peoria, IL  61604
Phone: (309)688-1188  Fax: (309)688-1292
Web Site: http://www.biordc.com/
E-Forms: http://www.biordc.com/grant/a3.htm

DEADLINE:  Open

The Biotechnology Research and Development Corporation (BRDC) is a unique biotechnology consortium that combines government, academia and the private sector together in close working relationships. Our focus remains on research with true commercial potential--all within the general research areas of animal healthcare, plant sciences, biocatalysis and materials science. BRDC does not conduct research or employ its own scientific staff. Rather, it utilizes a pool of dollars from governmental grants, shareholder contributions and licensing income to seek out and fund research programs of interest to its shareholder companies. BRDC One-Year Feasibility Studies are designed for scientists who have an innovative idea and need funding for preliminary work.

FUNDING:  The budget for a Feasibility Study cannot exceed $60,000 (including indirect costs)--and no more than ten percent of these funds can be used for equipment. Approximately thirty percent of BRDC research funds are used for Feasibility Studies.
The Evolving Earth Foundation

Student Grant Program

Contact: Thomas A. Dillhoff
10521 37th St SE
Everett, WA 98205
E-mail: tdillhoff@evolvingearth.org
Web Site: http://www.evolvingearth.org/
DEADLINE: March 1, 2007

The mission of the Evolving Earth Foundation is to support education and research in the earth sciences. Grant applications that support this mission in any way will be considered, although preference will be given to grant requests that directly relate to focus areas of the foundation. These areas include:
* Understanding of paleoenvironments & paleoclimates during different intervals in earth’s history.
* Understanding of taphonomic processes in terrestrial, marine and freshwater environments.
* Evolution, systematics or taxonomy of plant or animal groups.
* Paleontological, paleobotanical or paleoecological studies of specific fossil localities. A multidisciplinary approach is strongly encouraged.
* Relationships of organisms in paleocommunities with each other or with their physical environment.
* Evolution of landforms and geologic features. This can be on a global, regional, or local scale.

FUNDING: A total of ten grants per year are available, for amounts of up to $3000 per grant. Undergraduate students, graduate students, and post-doctoral researchers at accredited U.S. colleges and universities or research institutions are eligible to apply for grants. Application materials are on the web site.

Field Museum of Natural History

Visiting Scholarships, Graduate Student Fellowships, Undergraduate Internships

Contact: Chair, Scholarship Committee
Office of Academic Affairs
1400 South Lake Shore Drive
Chicago, IL 60605-2496
Phone: (312)665-7627 Fax: (312)665-7641
E-mail: ezeiger@fieldmuseum.org
Web Site: http://www.fieldmuseum.org/research_collections/scholarships/default.htm
DEADLINE: See Below

The Field Museum houses some of the world's finest collections in anthropology, botany, geology, and zoology. The Field Museum recognizes the need to support basic research in its collections by interested students and scholars throughout the world.

Visiting Scholarships - Deadline May 1 and November 1 each year
Providing opportunities for scientists who wish to use the Field Museum's collections, funds are earmarked for travel and for subsistence while visitors are conducting their research. Applications are considered twice a year (see Application Deadlines and Forms). Young professionals and graduate students can be funded for periods of a few days to several weeks from the Thomas J. Dee, the Karl P. Schmidt, the Women's Board Women In Science, and the Visiting Scholar funds. Owing to the limited availability of these funds, stipends are typically less than $1000 per scholar. Extended-term visits by
distinguished national and international scientists can be funded for periods of several weeks up to one year through the Robert O. Bass Visiting Scientist Fund. These stipends are negotiable.

Graduate Student Fellowships and Undergraduate Internship – Deadline February 1 each year

A limited number of Field Museum fellowships are available for graduate students engaged in dissertation research associated with the Museum. These fellowships provide stipend and limited tuition support. Candidates will be expected to have formal involvement with the Museum, by having a curator serve on the student's academic committee, and by relying heavily upon the collections and facilities of the Museum. Students must be in residence in the Chicago area and are expected to spend a significant portion of their research time at the Museum. The period of appointment is one year and starts on September 1st.

National Geographic Society
Grants for Research and Exploration

**Contact:** Committee for Research and Exploration
1145 17th Street, NW
Washington, DC 20090-8249
**Phone:** (800)647-5463
**E-mail:** cre@ngs.com
**Web Site:** [http://www.nationalgeographic.com/research/index.html](http://www.nationalgeographic.com/research/index.html)
**DEADLINE:** Open

The National Geographic Society awards grants for scientific field research and exploration through its Committee for Research and Exploration. All proposed projects must have both a geographical dimension and relevance to other scientific fields and be of broad scientific interest. Applications are generally limited to the following disciplines: anthropology, archaeology, astronomy, biology, botany, geography, geology, oceanography, paleontology, and zoology. In addition, the Committee is currently emphasizing multidisciplinary projects that address environmental issues. Researchers planning work in foreign countries should include at least one local collaborator as part of their research teams. The Committee will not consider applications seeking support solely for laboratory work or archival research.

**FUNDING:** This grant program does not pay educational tuition, nor does it offer scholarships or fellowships of any kind. Grants funded by the CRE are for one year's work in field and laboratory. While grant amounts vary greatly, most range from U.S. $15,000 to $20,000. There is no set quantity of grants awarded, but budget constraints keep the number to approximately 250 per year.

**ELIGIBILITY:** Applicants are expected to have advanced degrees (Ph.D. or equivalent) and be associated with an educational organization or institution. Independent researchers or those pursuing a Ph.D.-level degree may apply, but competition is keen and awards to non-Ph.D. applicants are rare. As a general rule, all applicants are expected to have published a minimum of three articles in peer-reviewed scientific journals.

National Science Foundation (NSF)

**Directorate for Biological Sciences**
**Division of Environmental Biology**
**Ecological Biology Cluster**
**Ecology**
The Ecological Biology Cluster supports research on natural and managed ecological systems, primarily in terrestrial, wetland, and freshwater habitats. Research areas include experimental, observational, theoretical, and modeling studies on the structure and function of complex associations that focus on biotic components, and the coupling of small-scale systems to each other and to large-scale systems. Projects are encouraged that develop conceptual and synthetic linkages among theoretical, modeling, and empirical approaches; that are conducted at one or more scales of ecological or geographic organization; and that synthesize empirical and theoretical findings into new paradigms. The Ecology element supports studies of community ecology and population interactions at diverse spatial and temporal scales. These include (1) dynamics and processes within particular habitats; (2) food-web structure; (3) landscape patterns and processes; (4) paleoecology; (5) biotic interactions, including mutualism, competition, predation, and parasitism; (6) mechanisms of coexistence and community assembly, (7) co-evolution; and (8) chemical ecology. Ecology particularly encourages studies that reveal causal mechanisms, patterns, and ecological processes or that apply to a wide range of habitats and taxa. Studies focusing on population dynamics of single species should be directed to the Population and Evolutionary Processes Cluster.

The Botanical Society of America Grant Opportunities Newsletter is published on-line as a service to BSA members. Each issue contains opportunities for the next four succeeding months. Six bi-monthly editions are published annually for: January/February; March/April; May/June; July/August; September/October; November/December. Comments and suggestions about the Newsletter are welcome and may be e-mailed to: botanynews@yahoo.com

National Science Foundation (NSF)

Directorate for Biological Sciences
Division of Environmental Biology
Systematic Biology and Biodiversity Inventories Cluster
Biodiversity Surveys and Inventories

Charles Lydeard, Juan Carlos Morales, and William C. Taylor, Program Directors
4201 Wilson Boulevard, Room 635 N
Arlington, VA 22230
Phone: (703)292-8481 (Morales), -7142 (Lydeard), -7121 (Taylor)
Fax: (703)292-9064
E-mail: clydeard@nsf.gov or jmorales@nsf.gov or wtaylor@nsf.gov
The Systematic Biology and Biodiversity Inventories Cluster supports the general science of systematics, whose three main missions are: to discover, describe, and inventory global species diversity; to analyze and synthesize the information derived from this global discovery effort into predictive classification systems that reflect the history of life; and to organize the information derived from this global program in efficiently retrievable forms that best meet the needs of science and society. The Cluster manages review panels each fall and spring, as well as special competitions for Revisionary Systematics (REV SYS) and for Partnerships for Enhancing Expertise in Taxonomy (PEET). Biodiversity Surveys and Inventories supports expeditionary work to discover, describe, and document plant, animal, and microbial diversity throughout the world, whether terrestrial, freshwater, or marine, and with emphasis on well-vouchered natural history collections, or stocks and cultures including associated databases. Supported surveys may be primarily area-based (i.e., focusing on species inventory and discovery, including biogeographic or evolutionary hypothesis testing), clade-based (i.e., continental-scale to global species inventory for a particular taxonomic group), or guild-based (i.e., surveys that couple species inventory and discovery with ecological hypothesis testing).

National Science Foundation (NSF)
Directorate for Biological Sciences
Division of Integrative Organismal Biology (IOB)
Behavioral Systems Cluster

Program Director
4201 Arlington Boulevard, Room 685 S
Arlington, VA 22230
Fax: (703)292-9153
Web Site: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13405&org=NSF
DEADLINE: 01/12/2007 07/12/2007

The Division of Integrative Organismal Biology (IOB) (formerly the Division of Integrative Biology and Neuroscience) supports research aimed at integrative understanding of organisms as units of biological organization, with particular emphasis on their development, form, function, and evolution. An underlying theme in IOB is the use of a wide diversity of organisms both in identifying unifying principles common to all organisms and in understanding the variety of mechanisms that have evolved in specific organisms. Understanding development, form, function, and evolution requires integrative approaches. These can include analyses from the molecular through the ecosystem levels, including advanced computational techniques and interdisciplinary perspectives involving other areas of biology, behavioral science, physical science, mathematics, engineering, and computer science. Multidisciplinary collaborative research projects are encouraged so that different types of research techniques may be applied to single-focused problems. The Behavioral Systems thematic area focuses on the development, function, mechanisms, and evolution of behavior, biological rhythms, and interactions between organisms including animals, plants, and microbes. This area supports research on social and reproductive behavior; behavioral ecology and physiology; neural and hormonal mechanisms of behavior; immunology of behavior; and the biological bases of learning, cognition, and communication. Behavioral Systems also encompasses physiological responses, chemical communication, and reproductive consequences of plant interactions with other organisms. Proposals that use functional genomics to understand physiological and behavioral adaptations to environmental stimuli and stress are encouraged. NOTE: Foreign researchers at U.S. institutions may be able to apply for this award through their institution. Contact the program officer for details.
APPLICATION INFORMATION: Contacts for the different research areas are:
National Science Foundation (NSF)
Directorate for Education and Human Resources
Division of Undergraduate Education
Course, Curriculum, and Laboratory Improvement (CCLI) - Phase II and III Proposals

Program Director
Course, Curriculum, and Laboratory Improvement (CCLI)
4201 Wilson Boulevard
Arlington, VA 22230
DEADLINES ANNOUNCED: 01/10/2007 Phase 2 & 3 projects

The Course, Curriculum, and Laboratory Improvement (CCLI) program seeks to improve the quality of science, technology, engineering, and mathematics (STEM) education for all undergraduate students. The CCLI program is based on a cyclic model depicting the relationship between knowledge production and improvement of practice in undergraduate STEM education. All proposals must contribute to the development of exemplary undergraduate STEM education. Proposals may focus on one or more of the components of this cycle: (1) creating learning materials and teaching strategies; (2) developing faculty expertise; (3) implementing educational innovations; (4) assessing learning and evaluating innovations; and (5) conducting research on undergraduate STEM teaching and learning.

Phase 2 projects build on smaller-scale successful innovations or implementations, such as those produced by Phase 1 projects, and refine and test these on diverse users in several settings. In terms of scope, their focus ordinarily includes two or more components of the cyclic model with the connections between components explicitly addressed. Phase 2 projects carry the development to a state where the results are conclusive so that successful products and processes can be distributed widely or commercialized when appropriate. At a minimum, the innovation, if successful, should be institutionalized at the participating colleges and universities.

Phase 3 Projects - total budget up to $2 million for 3 to 5 years. Phase 3 projects combine established results and mature products from several components of the cyclic model. Such projects involve several diverse academic institutions, often bringing different kinds of expertise to the project. Evaluation activities are deep and broad, demonstrating the impact of the project's innovations on many students and faculty at a wide range of academic institutions. Dissemination and outreach activities that have national impact are an especially important element of Phase 3 projects, as are the opportunities for faculty to learn how to best adapt project innovations to the needs of their students and academic institutions.

Although it is expected that some Phase 1 projects will lead to Phase 2 projects and some Phase 2 projects to Phase 3 projects, there is no requirement that a proposal be based on CCLI-funded work;
however the antecedent(s) for all projects should be cited and discussed. While it is unlikely that the program would be able to support a single multiyear project to address all components in depth at a large scale, a succession of grants might support such an effort. In all cases the funds requested should be consistent with the scope and scale of the project.

APPLICATION INFORMATION: General inquiries regarding this program should be made to a program director in the appropriate discipline; the names, e-mail addresses, and phone numbers of the program directors in each discipline are listed in the NSF 06-536 Program Announcement. There is no limit on the number of proposals an organization may submit. An individual may be the main Principal Investigator (PI) on only one proposal submitted for any deadline. There is no restriction on the number of proposals for which an individual may serve as co-PI. The January 7, 2007, deadline is for Phase 2 and 3 proposals.

National Science Foundation (NSF)
Directorate for Education and Human Resources
Research in Undergraduate Institutions (RUI)

EHR RUI/ROA Liaison
4201 Wilson Boulevard
Arlington, VA 22230
Phone: (703)292-5111
DEADLINE: 1/09/07 or 1/12/07 Biology target date depending on the cluster submitting to.

The specific objectives of the Research in Undergraduate Institutions (RUI) program are to (1) support high-quality research by faculty members of predominantly undergraduate institutions, (2) strengthen the research environment in academic departments that are oriented primarily toward undergraduate instruction, and (3) promote the integration of research and education. The involvement of undergraduate students is an important feature of RUI. However, the overriding purpose of RUI is the support of faculty research.

SUPPORT PROVIDED: Proposals for RUI faculty research projects may request support for salaries and wages, research assistantships, fringe benefits, travel, materials and supplies, publication costs and page charges, consultant services, essential equipment, field work, research at other institutions, and indirect costs. Awards for faculty research projects will usually be for a period of 3 years, whereas awards for shared-use major instrumentation are usually for a period of 1 to 2 years. In recent years, the annual award size of individual investigator RUI projects has ranged from approximately $10,000 to over $100,000.

APPLICATION INFORMATION: General inquiries should be made to the RUI/ROA Program liaison above. (Go to http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5518&org=NSF for liaisons for other Directorates.) Proposals must be submitted electronically via FastLane by the investigator's home institution in accordance with the target dates or deadlines, if any, of the NSF disciplinary program in the proposed research area.
National Science Foundation (NSF)
Directorate for Biological Sciences
Division of Molecular and Cellular Biosciences
Cellular Systems Cluster

Eve Barak, Michael L. Mishkind, Jermelina L.G. Tupas, Matthew Kane, and Christina Kennedy, Program Directors
4201 Wilson Boulevard, 655 S Arlington, VA 22230
Phone: (703)292-7113 (Barak) or -7190 (Mishkind) or -7144 (Tupas) or -7186 (Kane) or -7582 (Kennedy) Fax: (703)292-9061
E-mail: ebarak@nsf.gov or mmishkin@nsf.gov or jtupas@nsf.gov or mkane@nsf.gov or ckennedy@nsf.gov
Web Site: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=12772&org=MCB&from=home
DEADLINES ANNOUNCED: 01/12/2007 07/12/2007

The Cellular Systems Cluster focuses on the structure, function, and regulation of plant, animal and microbial cells, and their interactions with the environment and with one another. Areas supported include studies of the structure, function, and assembly of cellular elements, such as the cytoskeleton, membranes, organelles, intracellular compartments, intranuclear structures, and extracellular matrix, including eukaryotic and prokaryotic cell walls and envelopes. In addition, support is provided for the study of intracellular and transmembrane signal transduction mechanisms and cell-cell signaling processes, including those that occur in biofilms. Research on cellular recognition and self-defense mechanisms is included. Research utilizing both traditional and innovative methodologies, multidisciplinary approaches, technique development, computation and modeling, and approaches that exploit genomic information is encouraged. Multidisciplinary approaches to the study of cellular systems, including research carried out at the interfaces of biology, physics, chemistry, mathematics and computer science, and engineering, are also encouraged.

National Science Foundation (NSF)
Directorate for Biological Sciences
Division of Integrative Organismal Biology (IOB)
Developmental Systems Cluster

Program Director
4201 Wilson Boulevard, Room 685 S Arlington, VA 22230
Fax: (703)292-9153
Web Site: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13407&org=IOB&from=home
DEADLINES ANNOUNCED: 01/12/2007 07/12/2007

The Developmental Systems thematic area focuses on the nature, control, and evolution of those processes that comprise the life cycle of organisms. This area includes research on the mechanisms of gametogenesis, fertilization, embryogenesis, differentiation, pattern formation, and morphogenesis, including research on the development, regeneration, and aging of the nervous system. Genomic approaches, gene networks, integration of developmental gene pathways, and computational approaches are included. Studies that explore the evolution of developmental mechanisms are encouraged.

APPLICATION INFORMATION: Contacts for the different research areas are:
(1) Judith Plesset: animal development, including evolution of developmental mechanisms--telephone: (703)292-8417, e-mail: jplessel@nsf.gov;
(2) Susan Lolle: plant and microbial development, including evolution of developmental mechanisms--telephone: (703)292-8417, e-mail: slolle@nsf.gov;
(3) Paul Farel: neural development--telephone: (703)292-8417, e-mail: pfarel@nsf.gov; and Judith Venuti: animal development, including evolution of developmental mechanisms--(703)292-8417, e-mail: jvenuti@nsf.gov.

National Science Foundation (NSF)

Directorate for Biological Sciences

Research Initiation Grants & Career Advancement Awards to Broaden Participation in the Biological Sciences

RIG/CAA Coordinator
4201 Wilson Boulevard
Arlington, VA 22230
Phone: (703)292-8481 Fax: (703)292-9064
E-mail: rig-caabp@nsf.gov
DEADLINES ANNOUNCED: 01/12/2007 07/12/2007

The Directorate for Biological Sciences (BIO) at NSF offers two funding opportunities under this solicitation (1) Research Initiation Grants (RIG) and (2) Career Advancement Awards (CAA), with the goal of broadening the participation of scientists from groups underrepresented in the biological sciences in the U.S. These activities seek to promote the development and retention of scientists from underrepresented groups and to increase the numbers of such individuals that serve as role models for the scientific workforce of the future. A specific goal is to increase the number of research proposals submitted to NSF by individuals from groups currently underrepresented in the biological sciences as well as from scientists at minority-serving institutions so they can become actively and competitively engaged in research as independent investigators and, by so doing, create new research opportunities for students from underrepresented groups. RIG awards are for beginning investigators to undertake activities, such as acquisition of preliminary data or development of collaborations that will lead to formulation of competitive grant applications. CAA awards are intended to provide support for scientists other than beginning investigators to undertake specific activities that will enhance their career development and competitiveness for research funds, for example, by acquiring new tools and/or skills to address contemporary research questions in the biological sciences.

SUPPORT PROVIDED: RIG awards are limited to a maximum of $150,000 for a period of 24 months with a possible addition of up to $25,000 for equipment. CAA awards are limited to a maximum of $150,000 for 24 months with a possible addition of up to $25,000 for equipment. NSF estimates that it will make 15 to 20 awards. NSF does not require cost sharing for this program.

APPLICANT INFORMATION: RIG and CAA eligibility is limited to scientists who are citizens, nationals, or legally admitted permanent residents of the United States holding a doctoral degree or having equivalent experience in NSF-supported fields. RIG is appropriate for a new investigator, usually in the first academic or research appointment. A RIG is not intended as a substitute for a postdoctoral fellowship. A proposer for a RIG should: (a) hold a faculty or research-related position in a U.S. college or university; (b) not previously have served as Principal Investigator (PI) or co-PI on an independent federal award for scientific or engineering research. (Previous federal support as a postdoctoral fellow or
as a research associate or graduate research assistant on a federal grant where another person was the PI, or under a scientific and engineering education grant does not exclude a proposer from RIG eligibility.) Co-investigators are not permitted on RIG, but collaborations with or visiting scientist status in other laboratories is permitted. Tenure or tenure-track status is not an eligibility factor, but the proposer must be the PI. The submitting institution must provide a letter showing its support for the proposed activities. If the proposer is not in a tenure-track appointment, the institution must state its contractual agreement with the proposer if the appointment period and requested grant award dates are not congruent.

APPLICATION INFORMATION: General inquiries regarding this program should be made to:
Dr. Charles Lydeard, RIG/CAA Lead Coordinator, Directorate for Biological Sciences (BIO), Division of Environmental Biology, telephone: (703)292-7142, e-mail: rig-caabp@nsf.gov;
Dr. Gerald Selzer, RIG/CAA Coordinator, BIO, Division of Biological Infrastructure, telephone: (703)292-8470, e-mail: rig-caabp@nsf.gov;
Dr. Parag Chitnis, RIG/CAA Coordinator, BIO, Division of Molecular and Cellular Biosciences, telephone: (703)292-7132, e-mail: rig-caabp@nsf.gov; or
Dr. Godfrey Bourne, RIG/CAA Coordinator, BIO, Division of Integrative Organismal Biology, telephone: (703)292-8423, e-mail: rig-caabp@nsf.gov.

National Science Foundation (NSF)
Office of Integrative Activities
Major Research Instrumentation (MRI) Program
Instrument Development and Acquisition

Dr. Joan Frye, Staff Associate
Office of the Director
Office of Integrative Activities
4201 Wilson Boulevard, Room 1285 N
Arlington, VA 22230
Phone: (703)292-8040 Fax: (703)292-9040
E-mail: jfrye@nsf.gov or mri@nsf.gov
DEADLINES ANNOUNCED: 01/25/2007

The Major Research Instrumentation Program (MRI) is designed to increase access to scientific and engineering equipment for research and research training in our nation's organizations of higher education, research museums, and nonprofit research institutions. This program seeks to improve the quality and expand the scope of research and research training in science and engineering and to foster the integration of research and education by providing instrumentation for research-intensive learning environments.

The goals of the MRI Program are to: (1) support the acquisition, through purchase, upgrade, or development, of major state-of-the-art instrumentation for research, research training, and integrated research/education activities at institutions; (2) improve access to and increase use of modern research and research training instrumentation by scientists, engineers, and graduate and undergraduate students; (3) enable academic departments or cross-departmental units to create well-equipped learning environments that integrate research with education; (4) foster the development of the next generation of instrumentation for research and research training; and (5) promote partnerships between academic researchers and private-sector instrument developers. The MRI program assists in the acquisition or development of major research instrumentation by organizations that is, in general, too costly for support through other NSF programs. Proposals may be for a single instrument, a large system of instruments, or
multiple instruments that share a common or specific research focus. Proposal requests for computer and
networked systems, clusters of advanced workstations, and other information infrastructure components
necessary for research are encouraged. The MRI program will NOT support proposal requests for (a)
computer networks as general-purpose equipment; (b) assorted instruments or general lab equipment that
do not share a common or specific research or research training focus; (c) instrumentation requested
primarily for standard science and engineering courses; or (d) renovation or modernization of research
facilities, fixed equipment, or facilities such as research vessels, airplanes, large telescopes, and
supercomputing centers. The term "research facilities" refers to the bricks-and-mortar physical plant in
which sponsored or unsponsored research activities (including research training) take place, including
related infrastructure, systems (e.g., HVAC and power systems, toxic waste removal systems), and fixed
equipment. The term "fixed equipment" refers to the permanent components of a research facility that are
integral (i.e., built in, rather than affixed) to the facility (e.g., clean rooms, fume hoods, elevators,
laboratory casework); their removal would affect the integrity or basic operation of the facility. Proposals
that fall into these categories will be returned without review.

SUPPORT PROVIDED: NSF estimates having $90 million to make up to 220 awards for this program in
FY 2007. Awards for instrumentation will range from $100,000 to $2 million. Proposals requesting less
than $100,000 will be considered only from non-PhD-granting organizations or from the disciplines of
mathematical science or social, behavioral, and economic science at any eligible organization. Proposers
may request an award period up to three years for acquisition proposals and up to five years for
development proposals. Cost sharing is not required.

Rainforest Alliance

Kleinhans Fellowships

Deanna Newsom
665 Broadway, Suite 500
New York, NY 10012
Phone: (212)677-1900 or (888)MY-EARTH (toll free) Fax: (212)677-2187
E-mail: dnewsom@ra.org
Web Site: http://www.rainforest-alliance.org/
DEADLINE: 12/31/2006

The Rainforest Alliance seeks alternatives to deforestation that provide economic support for
rainforest communities. The Kleinhans Fellowship supports research to better understand and improve the
impacts of non-timber forest product (NTFP) harvest and marketing on rural livelihoods and tropical
forest ecosystems. A successful application will outline the need for research, its potential applications
and its likely impact on local communities and forest ecosystems. The Kleinhans Fellowship research
area is restricted to Latin America. Applications for projects conducted in the Peten region of Guatemala
or Southern Mexico are especially encouraged.

SUPPORT PROVIDED: The fellowship provides a grant of $15,000 (US) per year, for two years. Please
note that the Fellowship will not subsidize academic tuition and fees, nor will it cover costs of purchasing
transport vehicles, or unnecessary or unreasonable equipment.

APPLICANT INFORMATION: Applications for any tropical forest type are eligible. The successful
applicant will have a master's degree in forestry, ecology, botany, environmental science or an appropriate
related field. Doctoral candidates or post-doctoral researchers are preferred. Applicants may substitute
relevant experience for degrees.

APPLICATION INFORMATION: There is no official application form. Guidelines are available on the
website above. Applicants are required to submit their completed application in digital (electronic) form
Smithsonian Institution

Fellowship Programs

**ADDRESS:** Office of Research Training and Services
Post Office Box 37012
Victor Building 9300, MRC 902
Washington, DC  20013-7012

**PHONE:** (202)275-0655

**E-MAIL:**  siofg@ofg.si.edu

**WEB SITE:**  http://www.si.edu/ofg/fellowopp.htm

**DEADLINE:** Jan. 15, 2007  to begin in June 07.

The Smithsonian offers a variety of fellowships and internships. Please see their web site for a full listing.

*Graduate Student Fellowships* - These fellowships allow students to conduct research for ten-week periods in association with Smithsonian research staff members. Applicants must be formally enrolled in a graduate program of study, must have completed at least one semester, and must not yet have been advanced to candidacy in a doctoral program.

*Predoctoral Fellowships* - These fellowships allow students to conduct research for periods of three to twelve months. Applicants must have completed coursework and preliminary examinations for the doctoral degree, and must be engaged in dissertation research. In addition, candidates must have the approval of their universities to conduct their doctoral research at the Smithsonian.

*Postdoctoral and Senior Fellowships* - Postdoctoral Fellowships of three to twelve months are available for scholars who have held the doctoral degree or equivalent for fewer than seven years as of the application deadline. Senior Fellowships of three to twelve months are available for scholars who have held the doctoral degree or equivalent for more than seven years as of the application deadline. Applications for senior fellowships may be made up to eighteen months in advance. Stipends for senior fellowships are the same as for the postdoctoral program, but the Smithsonian's stipend may be matched by other sources of funding such as a sabbatical salary.

**Stipends:**

Senior and Postdoctoral - $40,000 per year
Earth and Planetary Sciences Senior and Postdoctoral - $45,000 per year
Predoctoral - $25,000 per year
Graduate Students - $5,500