

Funding Opportunities March 14, 2008

CSREES: National Integrated Water Quality Program

The goal of the National Integrated Water Quality Program is to improve the quality of our Nation's surface water and groundwater resources through research, education, and extension activities. Projects funded through this program will facilitate achieving this goal by advancing and disseminating the knowledge base available to agricultural and rural communities. Funded projects should lead to science-based decision-making and management practices that improve the quality of the Nation's surface water and groundwater resources in agricultural and rural watersheds. Projects must address water quality issues in agricultural, rural, and urbanizing watersheds. Eight topical themes have been identified for the NIWQP: animal waste management; drinking water and human health; environmental restoration; nutrient and pesticide management; pollution assessment and prevention; watershed management; water conservation and agricultural water management; and water policy and economics. Applications are being solicited for the National Integrated Water Quality Program under the following areas: 1. National Water Resource Projects; 2. Regional Water Resource Projects; and 3. Watershed Scale Projects. The amount available for support of this program in FY 2008 is approximately \$12.6 million, with awards ranging up to \$650,000.

Application deadline: Apr 29, 2008

James S. McDonnell Foundation: Complex Systems Research

The Complex Systems program supports scholarship and research directed toward the development of theoretical and mathematical tools that can be applied to the study of complex, adaptive, nonlinear systems. It is anticipated that research funded in this program will address issues in fields such as biology, biodiversity, climate, demography, epidemiology, technological change, Complex Systemseconomic development, governance, or computation. While the program's emphasis is on the development and application of theoretical models used in these research fields and not on particular fields per se, JSMF is particularly interested in projects attempting to apply complex systems approaches to meaningful problems. Proposals attempting to apply complex system tools and models to problems where such approaches are not yet considered usual or mainstream (for example, differentiating normal physiology from disease) are encouraged.

A maximum of \$450,000 total costs can be requested for a minimum of 3 years or a maximum of 6 years.

Application deadline: Mar 12, 2008

USDA: Arthropod & Nematode Suborganismal Biology NRI

The Suborganismal Biology element of the Arthropod and Nematode Biology and Management program supports fundamental and applied research at the cellular and molecular levels to address the problem of managing arthropod and nematode pests and the Nation's over-dependence on harmful pesticide applications. Advances in the molecular genetics, physiology, biochemistry, and genomics of arthropods and

nematodes are poised to provide novel solutions to these problems that threaten the Nation's food supply and natural resources. Applicants must address at least one of the following priorities. 1) Characterization of digestive physiology, endocrine, neurophysiological, or biochemical processes of arthropods and nematodes. 2) Understanding the cellular, biochemical, and molecular level interactions of arthropods or nematodes with associated organisms (e.g. host plants, livestock, microbes, or beneficial organisms). 3) Elucidation of the mechanism of action of novel targets for pest control, including semiochemicals and fundamental pesticide resistance studies. Proposed budget requests must not exceed \$400,000 (including indirect costs) for project periods of 2-4 years in duration.

Application deadlines: Letter of Intent- Mar 14, 2008; full proposal June 5, 2008

USDA: Arthropod & Nematode: Tools, Resources, & Genomics NRI

The Tools, Resources, and Genomics element of the Arthropod and Nematode Biology and Management program will support research to better develop genomic resources, tool development, and fundamental knowledge about the functions of genes for arthropods and nematodes of agricultural importance. Applicants must address at least one of the following priorities: 1) Develop innovative approaches for mapping, identification, sequencing, and/or expression of genes to enable future studies on genome organization and lead to hypothesis testing research. 2) Generate bioinformatic tools to manage and interpret sequence data (e.g. analytical tools for integrative and comparative genomics), technology platforms, and computational resources. 3) Characterize, on a large scale, the function(s) of genes or networks of genes. Proposed research project budget requests must not exceed \$750,000 for project periods of 2-4 year.

Application deadlines: Letter of Intent - Mar 14, 2008; full proposal June 5, 2008

American Museum of Natural History: Grad & Post-Doc Grants

Modest short term awards are offered to advanced graduate students and postdoctoral researchers who are commencing their careers in the fields of zoology, paleontology, anthropology, astrophysics and earth and planetary sciences. Approximately 200 grants are awarded annually to meet modest financial needs not normally available from private foundations or granting agencies. Research projects need not be carried out at the American Museum.

Frank M. Chapman Memorial Grants

The Frank M. Chapman Memorial Grants support and foster research in ornithology, both neontological and paleontological. Deadline Applications on prescribed forms must be postmarked on the prescribed form by November 15; awards are announced in March.

Lerner-Gray Grants for Marine Research (March 15, 2008 deadline)

The Lerner-Gray Grants for Marine Research provide financial assistance to highly qualified persons starting careers in marine zoology. Support is limited to projects dealing with systematics, evolution, ecology and field-oriented behavioral studies of marine animals. Awards are not made to support research in botany and biochemistry.

Deadline Applications on prescribed forms must be postmarked by March 15; awards are announced in mid-May.

Theodore Roosevelt Memorial Grants

The Theodore Roosevelt Memorial Grants offer financial support to individuals for research on North American fauna in any phase of wildlife conservation or natural history related to the activities of the American Museum. Projects dealing with ornithology should be submitted to the Frank M. Chapman Memorial Grants. Deadline Applications on prescribed forms must be postmarked by February 15; awards are announced March 1.

Collection Study Grants

Collection Study Grants provide financial assistance to enable predoctoral and recent postdoctoral investigators to study any of the scientific collections at the American Museum. These collections are in Anthropology, Astrophysics, Earth and Planetary Sciences, Entomology, Herpetology and Ichthyology, Invertebrates, Mammalogy, Ornithology, Vertebrate Paleontology. The awards partially support travel and subsistence while visiting the American Museum of Natural History. The amount of the award ranges from \$500 to \$1500. The visit must be arranged through and approved by the appropriate scientific department of the Museum and is expected to be four days or longer in duration. Ordinarily, only one Collection Study Grant is awarded to an individual. Applicants requiring larger grants for collection study may apply instead to one of the grant programs described above.

Application deadlines: Mar 15, 2008

Trans-NIH Consortium (BECON): Bioengineering Nanotechnology (STTR)

As an initiative of the trans-NIH Bioengineering Consortium (BECON) on behalf of the participating NIH Institutes and Centers, grant applications are requested for Small Business Technology Transfer (STTR) projects on nanotechnologies useful to biomedicine. BECON has identified a number of priority areas for nanoscience and nanotechnology research support at NIH. Some priority topics that may be of interest are: Cell biology: nano-scale research on cellular processes, including biophysics of molecular assemblies, membranes, organelles, and macromolecules.

Molecular and cellular sensing/signaling: technologies to detect biological signals and single molecules within and outside cells.

Environmental and health impact of nanotechnologies: ramifications of nanomaterial processing, use, and degradation on health and the environment.

Applications will be accepted for projects in various stages of completion: Phase I, Phase II, or Fast-Track grants. For more detailed descriptions of these application categories, please refer to [the STTR funding guide](#). For Phase I, budgets up to \$200,000 total costs per year and time periods up to 2 years (up to \$400,000 total) may be accepted. For Phase II, budgets up to \$400,000 total costs per year and up to 3 years (up to \$1,200,000 total) may be accepted.

Application deadlines: Apr 05, 2008; Aug 05, 2008

Munson Foundation Grants

The general focus of the Foundation is on conservation of natural resources in North America and the Caribbean Basin with emphasis on the United States. The major program areas, in descending order, are:

- Marine resource conservation and management, with a particular interest in fisheries;
- South Florida ecosystems (Everglades, Biscayne Bay, Florida Bay, and Florida Keys);
- Alabama environmental issues;
- D.C. Metro area environmental issues
- Population and environment initiatives with a focus on U.S. immigration issues (limited to preselected organizations);
- Other interests of the board/donors.

Please submit an initial letter of inquiry by the deadline above BEFORE sending any additional materials. Grants range from \$10,000 to \$80,000, and the average grant size is \$15,000 to \$25,000. Most grants are restricted and require a 1:1 match.

Deadlines: Apr 07, 2008 Sep 01, 2008

National Academies: Research Associateship Program

The Resident Research Associateship Programs provide postdoctoral and senior scientists and engineers with opportunities to conduct research on projects, largely of their own choice, which are compatible with the research interests of the sponsoring laboratories, thereby contributing to the overall research efforts of the federal government. An Associate receives a stipend from the National Research Council while carrying out his or her proposed research. The current annual stipend for a Postdoctoral Research Associate is \$56,000 with additional increments for each year beyond the PhD. An appropriately higher stipend will be offered to Senior Research Associates. Funds are also available for limited professional travel during tenure. A suitable relocation reimbursement will be determined for each awardee. Awardees must hold the PhD, ScD, or other earned research doctoral degree recognized in US academic circles as equivalent to the PhD or must present acceptable evidence of having completed all the formal academic requirements for one of these degrees before tenure may begin.

Deadlines: May 01, 2008 Aug 01, 2008 Nov 01, 2008

American Honda Foundation Grants

The American Honda Foundation provides grants in the fields of youth education and scientific education to the following: Educational institutions, K-12; accredited higher education institutions (colleges and universities); community colleges and vocational or trade schools; scholarship and fellowship programs at selected colleges and/or universities or through selected non-profit organizations; other scientific and education-related, non-profit, tax-exempt organizations; gifted student programs; media concerning youth education and/or scientific education; private, non-profit scientific and/or youth education projects; other non-profit, tax-exempt, institutions in the fields of youth education and scientific education; and programs pertaining to academic or curriculum development that emphasize innovative educational methods and techniques.

Deadlines: May 01, 2008 Aug 01, 2008 Nov 01, 2009

EPA STAR: Consequences of Global Change for Water Quality

The U.S. Environmental Protection Agency (EPA), as part of its Science to Achieve Results (STAR) program, is seeking applications proposing research to better understand the effect of global change on U.S. water quality. EPA is interested in the hydrologic and other watershed processes that affect water resources that may be altered by a changing climate. A better national scale understanding of the range of potential consequences of climate change will be useful both for fully accounting for the impacts of climate change and for developing regional adaptive strategies to reduce the risk of harmful impacts. The goal of this solicitation is to assemble modeling systems capable of capturing important linkages between regional climate drivers and terrestrial hydrologic systems and to apply these modeling systems to improve the overall understanding of the sensitivity of key water quality or aquatic ecosystem management targets to the types of climate changes anticipated over the next several decades. Approximately \$4,500,000 total for all awards, 5 regular awards and 2 early career awards.

Deadlines: May 08, 2008

TREE Fund: Hyland R. Johns Grant Program

The TREE Fund announces the 2008 Hyland R. Johns Grant Program. Since 1975, the TREE Fund has awarded small grants to aid, stimulate and encourage scientific studies of trees. The Hyland R. Johns Grant Program is one of two established grant programs that funds appropriate projects that benefit the arboricultural industry and enhance the many contributions of our urban forests. Proposals must be received via mail by the due date; electronic or faxed submissions will not be accepted.

Deadlines: May 31, 2008