January 27, 2012

Below please find recently-announced grants and other announcements. Previously-posted grants are available on our funding pages.

Please send us (to espp@msu.edu) information you think should be included, especially about interdisciplinary environmental conferences you think would be of wide interest.

Below please find:

**Reports and announcements:** New books at the MSU libraries, comments requested on ecosystem climate adaptation plan and NIEHS strategy; nominations sought for Forest Service committee

**Opportunities for students and recent graduates:**

1. **Undergraduate and graduate opportunities:** Great Lakes summer research internships, National Science Foundation summer research opps for undergrads, marine biology/management scholarship, American Museum of Natural history grants, water fellowships, small Air and Waste Management fellowships, sustainable ag fellowships for entering students, Silent Spring essay competition, ecological economics internships
2. **Postdocs and jobs:** climate change workshop (DISCCRS), atmospheric science fellowship in DC, postdocs at IIASA in Austria, ecological economics staff job, two environmental studies positions, postdoc in Mexico

**Opportunities for faculty:**

1. **Climate and energy:** Biofuels genomic science, climate change and health, “apps” for climate, atmospheric system research. (See also, below: USDA Higher Ed Challenge, Fulbright NEXUS, and DEQ coastal management.)
2. **Ecology:** Dimensions of Biodiversity, Macrosystems Biology, Wildlife Without Borders
3. **Education:** USDA Higher Education Challenge, nanotechnology, NSF STEM scholarships
4. **International:** USAID University Engagement, Fulbright NEXUS program for the Americas, NSF Pan-American Studies, Indo-US Forum
5. **Various:** Organic agriculture, US Army Corps of Engineers, Department of Defense ESTCP (env technology), NASA computational modeling, Walker Fdn ecological economics
6. **Water:** DEQ coastal management (climate research focus), Clarke Prize

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**REPORTS AND ANNOUNCEMENTS**

[New environmental studies books in the MSU libraries](January 20, 2011)

Thanks to librarian Jon Harrison for these.

[Comments requested, "Draft National Fish, Wildlife and Plants Climate Adaptation Strategy," National Oceanic and Atmospheric Administration and Fish and Wildlife Service](March 5, 2012)

Outlines a unified approach to maintaining key terrestrial, freshwater and marine ecosystems in the face of accelerating climate change.

[Call for Comments: National Institute for Environmental Health Sciences mission statement/ vision statement](February 5, 2012)

These will form the basis of the next NIEHS Strategic Plan.

[Call for Nominations: Forest Service Planning Rule Committee](February 5, 2012)

The newly-formed National Advisory Committee for Implementation of the National Forest System Land Management Planning Rule is accepting member applications.
OPPORTUNITIES FOR STUDENTS AND RECENT GRADUATES

1. Undergraduate and graduate opportunities

Great Lakes Summer Fellows Program, Cooperative Institute for Limnology and Ecosystems Research, University of Michigan
Allows students from a broad range of fields to conduct mentored research in the Great Lakes Region. Undergraduates and graduate students are eligible. $5750. 12 weeks. 12 positions.
February 29 (annual)

Research Experiences for Undergraduates, National Science Foundation
NSF funds a large number of research opportunities for undergraduate students through its REU Sites program. An REU Site consists of a small group of undergraduates who work in the research programs of the host institution. Students are granted stipends and, in many cases, assistance with housing and travel.
Varies. Usually early spring.

Dr. Nancy Foster Scholarship Program, National Oceanic and Atmospheric Administration
For Master’s and PhD research in oceanography, marine biology, or maritime archaeology, (including all science, engineering, social science and resource management of ocean and coastal areas). Particularly intended for women and minorities. For students enrolled or about to enroll in graduate school. Two - four years of support. $30,000/ year stipend + tuition and research funds. Five awards annually.
February 22 (annual)

Chapman/ Lerner-Gray/ Roosevelt grants, American Museum of Natural History
Small grants for research on (a) ornithology; (b) marine zoology; (c) North American fauna; and (d) museum collections. Grad students, postdocs, and early-career faculty are eligible. 100+ awards annually.
Varied deadlines

Fellowships, National Water Research Institute
For work on water science and technology, water resources, and water policy. “Research must pertain to NWRI's mission statement, which is to create new sources of water through research and technology and to protect the freshwater and marine environments.” Special funds for membrane technology and salinity. Master’s and doctoral students are eligible. 1-2 years of support. Up to $10,000 per year. Seven awards.
April 25 (annual)

Scholarships, East Michigan Chapter, Air and Waste Management Association
For students pursuing courses of study and research leading to careers in air quality, waste management, environmental management/policy/law, and/or sustainability. Must be students in, or going into, junior or senior class standing or a graduate program or professional school. $1500/ award. Four awards.
February 29 (annual)

C.S. Mott Predoctoral Fellowships in Sustainable Agriculture, MSU
Graduate students should be beginning a Ph.D. program in the 2012-2013 academic year and be engaging in research relevant to sustainable agriculture. Up to two fellowships of $35,000 each.
February 15 (annual)

Silent Spring Essay Competition, Rachel Carson Center for Environment and Society
To write an essay that analyzes the impact, reception, and legacy of Rachel Carson’s publication against the chemical industry, Silent Spring. $2000. One award.
March 15, 2012
Internship, Economics for Equity and the Environment  
Places graduate students in summer internships with environmental organizations. For graduate students in economics, environmental/natural resource economics, ecological economics, and sustainable business/finance. Stipend provided.  
*February 24 (annual)*

### 2. Postdocs and jobs

**Dissertation Initiative for the Advancement of Climate Change Research (DISCCRS), NSF and NASA**  
DISCCRS brings together recent PhDs engaged in research related to climate change for a week-long workshop in October. Selection will favor applicants who plan to engage in interdisciplinary research careers in any subject within or relevant to climate change and its impacts. The aim of DISCCRS is to foster interdisciplinary work by connecting new researchers who are striving to create and integrate knowledge across multiple disciplines and to develop creative solutions to problems relating to climate change. Must have completed PhD between April 1, 2009 and February 28, 2012. 30 scholars chosen.  
*February 29 (annual)*

**2012-2013 American Meteorological Society-University Corporation for Atmospheric Research Congressional Science Fellowship**  
For candidates with backgrounds in the atmospheric or related sciences interested in working for a member of Congress or congressional committee to work on science policy issues. Must be U.S. citizen and have completed Ph.D. prior to September 1, 2012. One year. Stipend of $55,000.  
*March 15 (annual)*

**Postdoctoral Program, Internal Institute for Applied Systems Analysis (IIASA)**  
IIASA conducts interdisciplinary scientific studies on environmental, economic, technological, and social issues in the context of human dimensions of global change. One-two years of support. Two awarded annually.  
*February 29 (annual)*

**Research Coordinator, Gund Institute for Ecological Economics, University of Vermont**  
Ongoing

**Visiting Assistant Professor, Environmental Studies, Allegheny College**  
For candidates who can teach on the political and economic dimensions of contemporary environmental issues such as sustainable energy, agriculture, and water management.  
*Ongoing until filled*

**Post-doc, Environmental Studies, Carleton College**  
For someone in physical geography or a similar interdisciplinary field in environmental science, whose research addresses one or more aspects of global environmental change, water resources, and/or biogeography.  
*March 16, 2012*

**Postdoctoral position, ecology and coupled human and natural systems, University of Mexico**  
The project is “Secondary succession of tropical forests: recovering biodiversity, functions and ecosystem services.” Thanks to Scott Swinton for this posting.  
*February 10, 2012*

### OPPORTUNITIES FOR FACULTY

#### 1. Climate and energy

**Genomic Science: Biosystems Design to Enable Next-Generation Biofuels, Office of Science, Department of Energy**
For research on (a) Microbial systems design for biofuels, from computer modeling to experimental validation; or (b) Plant systems design for bioenergy. 
April 2, 2012

**Climate Change and Health: Assessing and Modeling Population Vulnerability to Climate Change (R21), National Institutes of Health**
To examine the differential risk factors of populations associated with increased vulnerability to adverse health outcomes related to climate change. Interdisciplinary approaches and community collaboration encouraged. (Note: Laura Schmitt Olabisi and the Michigan Department of Community Health are working on these issues; contact mayaef@msu.edu for more information.)

**Apps For Climate**, World Bank
Competition to discover ways to use open data to address the challenges of climate change. Participants create innovative software apps using World Bank climate data. Cash prizes up to $15,000.
March 16, 2012

**Atmospheric System Research**, Office of Science, Department of Energy
For cloud, aerosol, and radiative transfer research with the potential to improve the accuracy of regional and global climate models. $50,000-$250,000. 25 awards.
April 16, 2012

2. **Ecology**

**Dimensions of Biodiversity**, NSF
For innovative approaches that integrate genetic, taxonomic/phylogenetic, and functional dimensions of biodiversity to help fill gaps in our understanding of the diversity of life on Earth. Specific opportunities for collaboration with China and Brazil.
April 10 (annual)

**Macrosystems Biology: Research on Biological Systems at Regional to Continental Scales**, NSF
Supports quantitative, interdisciplinary, systems-oriented research on biosphere processes and their complex interactions with climate, land use, and invasive species at regional to continental scales as well as planning and development activities.
April 18 (annual)

**Wildlife Without Borders**, Division of International Conservation, Department of State
Programs focused on species (tigers, turtles, others) and regions (Latin America and Caribbean, Africa, Mexico, others). Conservation action focused; does support applied research.
Various

3. **Education**

**Higher Education Challenge (HEC) Grants Program**, Department of Agriculture
To provide the quality of education necessary to produce baccalaureate or higher degree level graduates capable of strengthening the Nation's food and agricultural scientific and professional workforce. Focal areas are Global Food Security and Hunger, Climate Change, Sustainable Energy, Childhood Obesity, and Food Safety. $4.7 million available.
March 30 (annual)

**Nanotechnology Undergraduate Education in Engineering**, NSF
This year’s focus includes societal, ethical, economic and/or environmental issues relevant to nanotechnology.
April 23 (annual)

**Scholarships in Science, Technology, Engineering, and Mathematics (STEM)**, NSF
For institutions of higher education to provide financial aid for students entering the STEM workforce or STEM graduate school. 80 to 100 awards.

August 14 (annual)

4. International

**University Engagement through Higher Education Institutions**, U.S. Agency for International Development
Draft RFA inviting comments. The program goal is relationships between higher education institutions and USAID that will improve the efficacy of development investments.
*Comments due January 31, 2012; final RFA will be announced in early February*

**Fulbright NEXUS Regional Program for the Western Hemisphere**, Department of State
Platform for scholars from across the region to engage in collaborative thinking and research in one of three inter-related topics: Science, Technology and Innovation, Entrepreneurship, and Sustainable Energy. Climate change is a particular focus. Participants should be early or mid-career academics, proficient in either Portuguese or Spanish. Involves three seminar meetings and a Fulbright exchange experience. Twenty participants chosen, 1/3 from U.S. Applicants must be from Latin America, Canada, the Caribbean or the United States. PhD or master’s and 5 years research experience required.
*June 15, 2012*

**Pan-American Advanced Studies Institutes Program**, NSF
To develop short courses at the advanced graduate, post-doctoral, and junior faculty level. Multiple disciplines are eligible. Aim to disseminate advanced scientific and engineering knowledge and stimulate training and cooperation among researchers of the Americas.
*April 24 (annual)*

**Indo-US Science and Technology Forum**
For activities, events, and initiatives that promote interactions between the scientific and research communities in India and the US. Focus on science, technology, engineering, and biomedical research. Funding for workshops, travel, and more.
*February 15, June 15, October 15 (annual)*

5. Various

**Organic Agriculture Research and Extension Initiative**, Department of Agriculture
For projects that will enhance the ability of producers who have already adopted organic standards to grow and market high quality organic agricultural products. Particularly interested in projects that emphasize research and outreach that assist farmers and ranchers with whole farm planning.
*March 9 (annual)*

**Broad Agency Announcement (BAA)**, U.S. Army Engineer Research and Development Center (ERDC), Department of Defense
The ERDC is responsible for conducting research in multiple areas, many environment-related. The BAA is intended “as a means of soliciting proposals for basic and applied research.” Areas include aquatic plants, water quality, treatment of hazardous waste, wetlands, infrastructure and environmental issues for installations, energy, environmental processes, land and heritage conservation, and ecological processes.
*Ongoing*

**Environmental Security Technology Certification Program (ESTCP)**, Department of Defense
ESTCP projects demonstrate and validate promising innovative technologies and methodologies relevant to DOD sites. Areas funded include: (1) Management of Contaminated Groundwater; (2) Characterization and Treatment of Testing and Training Range Contamination; (3) Military Munitions Remediation; (4) Watershed Management Models/Tools for DoD Installation. The ESTCP Installation Energy Solicitation is due out in early February.
*Pre-proposals due March 15 (annual)*
For information technologies required to enable and facilitate the Modeling and Analysis Program. Also funds for interdisciplinary workforce development – summer workshop.

Notice of intent due February 3, 2012; proposal due March 9, 2012

Ecological Economics Research Grants, Walker Foundation
Funds market approaches for addressing economic imbalances and promoting a sustainable economy. Supports primarily NGOs.

October 1 and April 1 (annual)

6. **Water**

Coastal Management Program, Michigan Department of Environmental Quality
For projects that seek to protect and restore healthy coastal ecosystems. Supports, among other topics, “research related to the potential impacts of climate change on Great Lakes coastal wetlands.” $50,000-$75,000.

April 16 (annual)

Clarke Prize, National Water Research Institute
For active researchers and/or practitioners in the U.S. who are focused on issues associated with water quality, quantity, technology, or public policy.$50,000.

March 1 (annual)