

**NOTE: See previously-posted opportunities available on our [funding pages](#).**  
Below please find recent grant and related announcements. Please send Jon MacDonagh-Dumler ([macdon47@msu.edu](mailto:macdon47@msu.edu)) information you think should be included, especially about interdisciplinary environmental conferences.

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## **ESPP Funding Opportunities: January 15, 2014**

### **OPPORTUNITIES FOR STUDENTS and RECENT GRADUATES**

#### **[Fiscal Year 2014 NMFS-Sea Grant Fellowships in Population and Ecosystem Dynamics](#)**

##### **[NOAA-OAR-SG-2014-2003955](#)**

Closing Date for Applications: **February 21, 2014**

The Graduate Fellowship Program awards at least two new PhD fellowships each year to students who are interested in careers related to marine ecosystem and population dynamics, with a focus on modeling and managing systems of living marine resources. The emphasis will be on the development and implementation of quantitative methods for assessing marine ecosystems, for assessing the status of fish, invertebrate, and other targeted species stocks, and for assessing the status of marine mammals, seabirds, and other protected species. Fellows will work on thesis problems of public interest and relevance to NMFS under the guidance of NMFS mentors at participating NMFS Science Centers or Laboratories.

### **OPPORTUNITIES FOR FACULTY**

#### **CLIMATE:**

##### **[Environmental Education Model Grants -- Solicitation Notice for 2013](#)**

###### **[EPA-EE-13-01](#)**

Closing Date for Applications: **February 4, 2014**

EPA is seeking grant applications from eligible applicants to support environmental education projects that promote environmental stewardship and help develop knowledgeable and responsible students, teachers, and citizens. This grant program provides financial support for projects that design, demonstrate, and/or disseminate environmental education practices, methods, or techniques, as described in this notice, and that will serve as models that can be replicated in a variety of settings.

##### **[Human and Ecological Health Impacts Associated with Water Reuse and Conservation Practices](#)**

###### **[EPA-G2014-STAR-F1](#)**

Closing Date for Applications: **February 18, 2014**

EPA, as part of its Science to Achieve Results (STAR) program, is seeking applications to conduct research on and demonstration of human and ecological impacts of treated wastewater applications (reclaimed water and wastewater reuse), and water conservation practices including the use of non-traditional water sources as well as more comprehensive long-term management and availability of water resources.

**Award Ceiling: \$750,000**

### **Early Career Awards: Human and Ecological Health Impacts Associated with Water Reuse and Conservation Practices**

#### **EPA-G2014-STAR-F2**

Closing Date for Applications: **February 18, 2014**

EPA, as part of its Science to Achieve Results (STAR) program, is seeking applications to conduct research on and demonstration of human and ecological impacts of treated wastewater applications (reclaimed water and wastewater reuse), and water conservation practices including the use of non-traditional water sources as well as more comprehensive long-term management and availability of water resources.

**Award Ceiling: \$330,000**

### **Plant Feedstock Genomics for Bioenergy: A Joint Research Funding Opportunity Announcement USDA, DOE**

#### **DE-FOA-0001034**

Closing Date for Applications: **February 25, 2014**

The DOE Office of Science, Office of Biological and Environmental Research (OBER), and the U.S. Department of Agriculture (USDA), National Institute of Food and Agriculture (NIFA), hereby announce their interest in receiving applications for genomics-based research that will lead to the improved use of biomass and plant feedstocks for the production of fuels such as ethanol or renewable chemical feedstocks. Specifically, applications are sought for research on plants that will improve biomass and oil seed characteristics, yield, or sustainability. Research to overcome the biological barriers to the low-cost, high-quality, scalable and sustainable production of bioenergy feedstocks using the tools of genetics and genomics are encouraged.

### **NOAA Great Lakes Habitat Restoration Program Project Grants under the U.S. Great Lakes Restoration Initiative in Areas of Concern**

#### **NOAA-NMFS-HCPO-2014-2003974**

Closing Date for Applications: **February 26, 2014**

NOAA seeks to openly compete funding available for habitat restoration in U.S. Great Lakes Areas of Concern (<http://www.epa.gov/glnpo/aoc/>) under the Great Lakes Restoration Initiative as anticipated in the President's FY2014 Budget. Applications should be submitted for any project that is to be considered for this funding, even for those projects already submitted as applications to other NOAA competitions. Projects funded through NOAA have strong on-the-ground habitat restoration components that provide social and economic benefits for people and their communities in addition to long-term ecological habitat improvements. Applications selected for funding through this solicitation will be implemented through a grant or cooperative agreement, with awards dependent upon the amount of funds made available to NOAA for this purpose

by the U.S. Environmental Protection Agency. NOAA anticipates up to \$4 million may be available for Great Lakes coastal habitat restoration; typical awards for on the ground implementation are expected to range between \$500,000 and \$2 million. NOAA will also accept proposals for engineering and design of habitat restoration projects; typical awards are expected to range between \$75,000 and \$350,000. Funds will be administered by the Great Lakes Region of NOAA's Restoration Center (RC).

### **Climate and Earth System Modeling: SciDAC and Climate Variability and Change DE-FOA-0001036**

Closing Date for Applications: **March 3, 2014**

The Climate and Earth System Modeling programs seek to develop and analyze high fidelity community models representing Earth and climate system variability and change, with a significant focus on the response of systems to natural and anthropogenic forcing. As the first of two programs in Climate and Earth System Modeling that participate in this FOA, the Earth System Modeling (ESM) Program seeks to advance computational, dynamical, and biogeophysical representations of the Earth system and its components, and to calibrate, test and assess predictive capabilities using uncertainty quantification methodologies. The second program participating in this FOA, the Regional and Global Climate Modeling (RGCM) Program, seeks to enhance the predictive understanding of the Earth system by analyzing the natural and anthropogenic components of global and regional Earth system models. The use of model simulations in combination with observations enables a deeper understanding of climate variability and change.

### **Systems-based Research for Evaluating Ecological Impacts of Manufactured Chemicals**

#### **EPA-G2014-STAR-E1**

Closing Date for Applications: **March 4, 2014**

EPA, as part of its Science to Achieve Results (STAR) program, is seeking applications focusing on integrated, transdisciplinary research that would advance scientific understanding of potential for impacts to ecosystem well-being associated with the use of manufactured chemicals. Specifically, the RFA would solicit proposals for systems-based research to develop and apply innovative metrics and modeling approaches to improve evaluation of ecological resilience and impact analyses, and to support environmental sustainability. Successful proposals will translate emerging and advanced methods, data, and computational tools to address complexity of these systems and distill drivers of adverse outcomes to ecological organisms and populations.

### **Early Career Awards: Systems-based Research for Evaluating Ecological Impacts of Manufactured Chemicals**

#### **EPA-G2014-STAR-E2**

Closing Date for Applications: **March 4, 2014**

EPA, as part of its Science to Achieve Results (STAR) program, is seeking applications focusing on integrated, transdisciplinary research that would advance scientific understanding of potential for impacts to ecosystem wellbeing associated with the use

of manufactured chemicals. Specifically, the RFA would solicit proposals for systems-based research to develop and apply innovative metrics and modeling approaches to improve evaluation of ecological resilience and impact analyses, and to support environmental sustainability. Successful proposals will translate emerging and advanced methods, data, and computational tools to address complexity of these systems and distill drivers of adverse outcomes to ecological organisms and populations.

### **Water Resources Research National Competitive Grants Program USGS G14AS00014**

Closing Date for Applications: **March 6, 2014**

This competitive grant program focuses on water problems and issues of a regional or interstate nature beyond those of concern only to a single State and which relate to specific program priorities identified jointly by the Secretary of the Interior and the water resources research institutes. Objectives of this program include the following:

A. Promote collaboration between the USGS and university scientists in research on significant national and regional water resources issues. Proposals exhibiting substantial collaboration between the USGS and the applicant are encouraged and will receive extra weight in the evaluation and selection process.

B. Promote the dissemination and application of the results of the research funded under this program.

C. Assist in the training of scientists in relevant water resource fields.

Proposals that include a strong educational component for student support are encouraged, as are proposals from faculty beginning their careers. The USGS and NIWR prefer that research supported by this program involve substantial collaboration between the USGS and university scientists. Collaboration can range from use of USGS data and information in the research to mutual involvement of USGS and university scientists on projects.

### **DECISION MAKING:**

#### **Hazard Mitigation and Structural Engineering NSF PD-13-1637**

Closing Date for Applications: **January 15, 2014 - February 15, 2014**  
**September 01, 2014 - October 01, 2014**

The Hazard Mitigation and Structural Engineering (HMSE) program supports fundamental research to mitigate impacts of natural and anthropogenic hazards on civil infrastructure and to advance the reliability, resiliency, and sustainability of buildings and other structures. Hazards considered within the program include earthquake, tsunami, hurricane, tornado and other loads, as well as explosive and impact loading. Research is encouraged that integrates structural and architectural engineering advances with discoveries in other science and engineering fields, such as earth and atmospheric sciences, material science, mechanics of materials, sensor technology, high performance computational modeling and simulation, dynamic system and control, and economics. The program seeks to fund transformative and cost-effective

innovations for hazard mitigation of both new and rehabilitated buildings and other structures. Research in structural and architectural engineering is encouraged that extends beyond mature or current construction materials into investigations of smart and sustainable materials and technologies, and considers the structures in their entirety. In addition, the program funds research on structural health monitoring that goes beyond data acquisition to include the holistic system, integrating condition assessment and decision making tools to improve structural performance.

### **Environmental Education Model Grants -- Solicitation Notice for 2013 EPA-EE-13-01**

Closing Date for Applications: **February 4, 2014**

EPA is seeking grant applications from eligible applicants to support environmental education projects that promote environmental stewardship and help develop knowledgeable and responsible students, teachers, and citizens. This grant program provides financial support for projects that design, demonstrate, and/or disseminate environmental education practices, methods, or techniques, as described in this notice, and that will serve as models that can be replicated in a variety of settings.

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### **Resilient Interdependent Infrastructure Processes and Systems NSF 14-524**

Closing Date for Applications: **March 19, 2014**

Type I and Type II Proposals

The goals of the Resilient Interdependent Infrastructure Processes and Systems (RIPS) solicitation are: (1) to foster an interdisciplinary research community that discovers new knowledge for the design and operation of infrastructures as processes and services;

(2) to enhance the understanding and design of interdependent critical infrastructure systems (ICIs) and processes that provide essential goods and services despite disruptions and failures from any cause, natural, technological, or malicious; and, (3) to create the knowledge for innovation in ICIs to advance society with new goods and services.

The objectives of this solicitation are: Create theoretical frameworks and multidisciplinary computational models of interdependent infrastructure systems, processes and services, capable of analytical prediction of complex behaviors, in response to system and policy changes; Synthesize new approaches to increase resilience, interoperations, performance, and readiness in ICIs; Understand organizational, social, psychological, legal, political and economic obstacles to improving ICI's, and identifying strategies for overcoming those obstacles.

The RIPS solicitation seeks proposals with transformative ideas that will ensure ICIs services are effective, efficient, dependable, adaptable, resilient, safe, and secure. Successful proposals are expected to study multiple infrastructures focusing on them as interdependent systems that deliver services, enabling a new interdisciplinary paradigm in infrastructure research. Proposals that do not broadly integrate across the cyber-physical, engineering and social, behavioral and economic (SBE) sciences may be returned without review. Projects must recognize that a primary objective is integrative predictive modeling that can use the data to validate the models and which can be integrated into decision making.

## **ECOSYSTEMS:**

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## **Long-Term Ecological Research**

### **NSF 13-588**

Closing Date for Applications: **March 14, 2014**

This NSF solicitation is open to renewal proposals only. To address ecological questions that cannot be resolved with short-term observations or experiments, NSF established the Long Term Ecological Research Program (LTER) in 1980. Three components differentiate LTER research from projects supported by other NSF programs: 1) the research is located at specific sites chosen to represent major ecosystem types or natural biomes; 2) it emphasizes the study of ecological phenomena over long periods of time based on data collected in five core areas; and 3) projects include integrative, cross-site, network-wide research. Ongoing research at LTER sites must test important, current ecological theories and significantly advance understanding of the long-term dynamics of populations, communities and ecosystems.

It often integrates multiple disciplines and, through cross-site interactions, examines patterns or processes over broad spatial scales. Recognizing that the value of long-term data extends beyond use at any individual site, NSF requires that data collected by all LTER sites be made broadly accessible.

### **Biotechnology Risk Assessment Grants (BRAG) Program USDA-NIFA-BRAP-004388**

Closing Date for Applications: **March 19, 2014**

The purpose of the BRAG program is to support the generation of new information that will assist Federal regulatory agencies in making science-based decisions about the effects of introducing into the environment genetically engineered organisms (GE), including plants, microorganisms (including fungi, bacteria, and viruses), arthropods, fish, birds, mammals and other animals excluding humans. Investigations of effects on both managed and natural environments are relevant. The BRAG program accomplishes its purpose by providing Federal regulatory agencies with scientific information relevant to regulatory issues.

### **Genealogy of Life NSF 14-527**

Closing Date for Applications: **March 26, 2014**

All of comparative biology depends on knowledge of the evolutionary relationships (phylogeny) of living and extinct organisms. In addition, understanding biodiversity and how it changes over time is only possible when Earth's diversity is organized into a phylogenetic framework. The goals of the Genealogy of Life (GoLife) program are to resolve the phylogenetic history of life and to integrate this genealogical architecture with underlying organismal data. The ultimate vision of this program is an open access, universal Genealogy of Life that will provide the comparative framework necessary for testing questions in systematics, evolutionary biology, ecology, and other fields. Projects submitted to this program should emphasize increased efficiency in contributing to a complete Genealogy of Life and integration of various types of organismal data with phylogenies. This program also seeks to broadly train next generation, integrative phylogenetic biologists for diverse careers by exposing them to the multidisciplinary areas of research within the proposal.

### **Dimensions of Biodiversity NSF 14-525**

Closing Date for Applications: **April 3, 2014**

Despite centuries of discovery, most of our planet's biodiversity remains unknown. The scale of the unknown diversity on Earth is especially troubling given the rapid and permanent loss of biodiversity across the globe. The goal of the Dimensions of Biodiversity campaign is to transform, by 2020, how we describe and understand the scope and role of life on Earth. It takes a broad view of biodiversity, and currently focuses on the integration of genetic, taxonomic/phylogenetic, and functional dimensions of biodiversity. Successful proposals should integrate these three dimensions to understand interactions and feedbacks among them. Investigators wishing to inquire about the suitability of potential projects for Dimensions of Biodiversity

are encouraged to email a brief summary and contact information to Dimensions@nsf.gov.

## **ENERGY:**

### **Environmental Education Model Grants -- Solicitation Notice for 2013 EPA-EE-13-01**

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EPA is seeking grant applications from eligible applicants to support environmental education projects that promote environmental stewardship and help develop knowledgeable and responsible students, teachers, and citizens. This grant program provides financial support for projects that design, demonstrate, and/or disseminate environmental education practices, methods, or techniques, as described in this notice, and that will serve as models that can be replicated in a variety of settings.

### **NSF/DOE Partnership on Advanced Frontiers in Renewable Hydrogen Fuel Production via Solar Water Splitting Technologies 2014-2016 NSF 14-511**

Closing Date for Applications: **February 10, 2014**

The Directorate for Engineering at the National Science Foundation (NSF) has established a partnership with the Fuel Cell Technologies (FCT) Office of the U.S. Department of Energy (DOE) in order to address critical fundamental and applied research challenges associated with advanced technologies for the production of hydrogen fuel via solar water splitting processes. The goal of the partnership is to leverage the complementary missions of applied research, development and demonstration (DOE) and use-inspired fundamental research and education (NSF) to address issues of national importance that impact the sustainable production of fuels using renewable resources.

### **Energy for Sustainability NSF PD-14-7644**

Closing Date for Applications: **February 20, 2014**

This program supports fundamental research and education that will enable innovative processes for the sustainable production of electricity and transportation fuels. Processes for sustainable energy production must be environmentally benign, reduce greenhouse gas production, and utilize renewable resources. Current interest areas are on sustainable energy technologies. Proposals should address the novelty and/or potentially transformative nature

[http://www.nsf.gov/about/transformative\\_research/faq.jsp](http://www.nsf.gov/about/transformative_research/faq.jsp) of the concept being proposed, compared to previous work in the field. Also, it is important to address why the proposed work is important in terms of engineering science, as well as to also project the potential impact on society and /or industry of success in the research. See the program description for further details.

## **Environmental Engineering NSF PD-14-1440**

Closing Date for Applications: **February 20, 2014**

This program supports fundamental research and education that will enable innovative processes for the sustainable production of electricity and transportation fuels. Processes for sustainable energy production must be environmentally benign, reduce greenhouse gas production, and utilize renewable resources. Current interest areas are on sustainable energy technologies. Proposals should address the novelty and/or potentially transformative nature

[http://www.nsf.gov/about/transformative\\_research/faq.jsp](http://www.nsf.gov/about/transformative_research/faq.jsp) of the concept being proposed, compared to previous work in the field. Also, it is important to address why the proposed work is important in terms of engineering science, as well as to also project the potential impact on society and /or industry of success in the research. See the program description for further details.

## **Plant Feedstock Genomics for Bioenergy: A Joint Research Funding Opportunity Announcement USDA, DOE DE-FOA-0001034**

Closing Date for Applications: **February 25, 2014**

The DOE Office of Science, Office of Biological and Environmental Research (OBER), and the U.S. Department of Agriculture (USDA), National Institute of Food and Agriculture (NIFA), hereby announce their interest in receiving applications for genomics- based research that will lead to the improved use of biomass and plant feedstocks for the production of fuels such as ethanol or renewable chemical feedstocks. Specifically, applications are sought for research on plants that will improve biomass and oil seed characteristics, yield, or sustainability. Research to overcome the biological barriers to the low-cost, high-quality, scalable and sustainable production of bioenergy feedstocks using the tools of genetics and genomics are encouraged.

## **Systems Biology of Bioenergy-Relevant Microbes to Enable Production of Next- Generation Biofuels DOE DE-FOA-0001060**

Closing Date for Applications: **March 14, 2014**

The Office of Biological and Environmental Research (BER) of the Office of Science (SC), U.S. Department of Energy (DOE), is seeking applications for research that supports the Genomic Science research program (<http://genomicscience.energy.gov>). In this FOA, applications are requested for: i) Research to advance the development of promising new model organisms relevant to biofuels production , ii) development of novel microbial functional capabilities and biosynthetic pathways relevant to the production of advanced biofuels and the development of strategies to overcome associated metabolic challenges resulting from pathway modification, and iii) development of novel analytical technologies or high-throughput screening approaches relating to research in bullets i and ii.

## **National Incubator Initiative for Clean Energy (NIICE) DOE DE-FOA-0001042**

Closing Date for Applications: **March 21, 2014**

The Department of Energy Office of Energy Efficiency and Renewable Energy (EERE) is seeking applicants to establish the National Incubator Initiative for Clean Energy (NIICE). NIICE seeks to advance three goals: 1) Improve the performance of existing and new clean energy business incubators across the country by setting a high performance standard, fostering best practices, and improving coordination of the incubator community; 2) Strengthen support for early-stage companies developing high-risk technologies and scaling from prototype to domestically-based production; and 3) Catalyze investment in early-stage clean energy businesses by improving information regarding capital access for incubators, including disseminating analysis and materials on philanthropic funds, corporate venture, and other innovative financing mechanisms. To accomplish these goals, NIICE is funding awards in two topic areas:

(1) a national organization to serve as a coordinating body for clean energy incubators and a central source of information for clean energy stakeholders; and  
(2) set a benchmark to develop top-performing, clean energy-focused incubators by funding three to five incubators across the United States.

To be considered for award, applications must be submitted through the EERE eXCHANGE website: <https://eere-exchange.energy.gov> . The applicant must first register and create an account on the EERE eXCHANGE website. A User Guide for the EERE eXCHANGE can be found on the EERE website <https://eere-exchange.energy.gov/Manuals.aspx> after logging in to the system. Information on where to submit questions regarding the content of the announcement and where to submit questions regarding submission of applications is found in the full FOA posted on the EERE eXCHANGE website.

### **Coupling, Energetics, and Dynamics of Atmospheric Regions (CEDAR) NSF 06-561**

Closing Date for Applications: **May 12, 2014**

May 10, Annually Thereafter

CEDAR is a broad-based, community-initiated, upper atmospheric research program. The goal is to understand the behavior of atmospheric regions from the middle atmosphere upward through the thermosphere and ionosphere into the exosphere in terms of coupling, energetics, chemistry, and dynamics on regional and global scales. These processes are related to the sources of perturbations that propagate upward from the lower atmosphere as well as to solar radiation and particle inputs from above. The activities within this program combine observations, theory and modeling.

### **FOOD:**

### **Human and Ecological Health Impacts Associated with Water Reuse and Conservation Practices EPA-G2014-STAR-F1**

Closing Date for Applications: **February 18, 2014**

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**Award Ceiling: \$750,000**

### **Early Career Awards: Human and Ecological Health Impacts Associated with Water Reuse and Conservation Practices**

#### **EPA-G2014-STAR-F2**

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## **HUMAN HEALTH:**

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EPA, as part of its Science to Achieve Results (STAR) program, is seeking applications focusing on integrated, transdisciplinary research that would advance scientific understanding of potential for impacts to ecosystem wellbeing associated with the use of manufactured chemicals. Specifically, the RFA would solicit proposals for systems-based research to develop and apply innovative metrics and modeling approaches to improve evaluation of ecological resilience and impact analyses, and to support environmental sustainability. Successful proposals will translate emerging and

advanced methods, data, and computational tools to address complexity of these systems and distill drivers of adverse outcomes to ecological organisms and populations.

### **Early Career Awards: Systems-based Research for Evaluating Ecological Impacts of Manufactured Chemicals**

#### **EPA-G2014-STAR-E2**

Closing Date for Applications: **March 4, 2014**

EPA, as part of its Science to Achieve Results (STAR) program, is seeking applications focusing on integrated, transdisciplinary research that would advance scientific understanding of potential for impacts to ecosystem wellbeing associated with the use of manufactured chemicals. Specifically, the RFA would solicit proposals for systems-based research to develop and apply innovative metrics and modeling approaches to improve evaluation of ecological resilience and impact analyses, and to support environmental sustainability. Successful proposals will translate emerging and advanced methods, data, and computational tools to address complexity of these systems and distill drivers of adverse outcomes to ecological organisms and populations.

### **Superfund Hazardous Substance Research and Training Program (P42)**

#### **NIH RFA-ES-14-001**

Closing Date for Applications: **April 10, 2014**

The National Institute of Environmental Health Sciences (NIEHS) is announcing the continuation of the Superfund Hazardous Substance Research and Training Program, referred to as Superfund Research Program (SRP) Centers. SRP Center grants will support problem-based, solution-oriented research Centers that consist of multiple, integrated projects representing both the biomedical and environmental science and engineering disciplines; as well as cores tasked with administrative, community engagement, research translation, training, and research support functions. The scope of the SRP Centers is taken directly from the Superfund Amendments and Reauthorization Act of 1986, and includes: (1) advanced techniques for the detection, assessment, and evaluation of the effect on human health of hazardous substances; (2) methods to assess the risks to human health presented by hazardous substances; (3) methods and technologies to detect hazardous substances in the environment; and (4) basic biological, chemical, and physical methods to reduce the amount and toxicity of hazardous substances.

### **LAND:**

### **NOAA Great Lakes Habitat Restoration Program Project Grants under the U.S. Great Lakes Restoration Initiative in Areas of Concern**

#### **NOAA-NMFS-HCPO-2014-2003974**

Closing Date for Applications: **February 26, 2014**

NOAA seeks to openly compete funding available for habitat restoration in U.S. Great Lakes Areas of Concern (<http://www.epa.gov/glnpo/aoc/>) under the Great Lakes

Restoration Initiative as anticipated in the President's FY2014 Budget. Applications should be submitted for any project that is to be considered for this funding, even for those projects already submitted as applications to other NOAA competitions. Projects funded through NOAA have strong on-the-ground habitat restoration components that provide social and economic benefits for people and their communities in addition to long-term ecological habitat improvements. Applications selected for funding through this solicitation will be implemented through a grant or cooperative agreement, with awards dependent upon the amount of funds made available to NOAA for this purpose by the U.S. Environmental Protection Agency. NOAA anticipates up to \$4 million may be available for Great Lakes coastal habitat restoration; typical awards for on the ground implementation are expected to range between \$500,000 and \$2 million. NOAA will also accept proposals for engineering and design of habitat restoration projects; typical awards are expected to range between \$75,000 and \$350,000. Funds will be administered by the Great Lakes Region of NOAA's Restoration Center (RC).

### **Biotechnology Risk Assessment Grants (BRAG) Program USDA-NIFA-BRAP-004388**

Closing Date for Applications: **March 19, 2014**

The purpose of the BRAG program is to support the generation of new information that will assist Federal regulatory agencies in making science-based decisions about the effects of introducing into the environment genetically engineered organisms (GE), including plants, microorganisms (including fungi, bacteria, and viruses), arthropods, fish, birds, mammals and other animals excluding humans. Investigations of effects on both managed and natural environments are relevant. The BRAG program accomplishes its purpose by providing Federal regulatory agencies with scientific information relevant to regulatory issues.

### **MacroSystems Biology NSF 12-532**

Closing Date for Applications: **April 7, 2014**

First Monday in April, Annually Thereafter

The MacroSystems Biology: Research on Biological Systems at Regional to Continental Scales will support 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, training, and development activities to enable groups to conduct MacroSystems Biology Research.

## **WATER:**

### **Environmental Education Model Grants -- Solicitation Notice for 2013 EPA-EE-13-01**

Closing Date for Applications: **February 4, 2014**

EPA is seeking grant applications from eligible applicants to support environmental education projects that promote environmental stewardship and help develop knowledgeable and responsible students, teachers, and citizens. This grant program

provides financial support for projects that design, demonstrate, and/or disseminate environmental education practices, methods, or techniques, as described in this notice, and that will serve as models that can be replicated in a variety of settings.

### **NSF/DOE Partnership on Advanced Frontiers in Renewable Hydrogen Fuel Production via Solar Water Splitting Technologies 2014-2016 NSF 14-511**

Closing Date for Applications: **February 10, 2014**

The Directorate for Engineering at the National Science Foundation (NSF) has established a partnership with the Fuel Cell Technologies (FCT) Office of the U.S. Department of Energy (DOE) in order to address critical fundamental and applied research challenges associated with advanced technologies for the production of hydrogen fuel via solar water splitting processes. The goal of the partnership is to leverage the complementary missions of applied research, development and demonstration (DOE) and use-inspired fundamental research and education (NSF) to address issues of national importance that impact the sustainable production of fuels using renewable resources.

### **Chemical Oceanography NSF PD-98-1670**

Closing Date for Applications: **February 15, 2014**

The Chemical Oceanography Program supports research into the chemical components, reaction mechanisms, and geochemical pathways within the ocean and at its interfaces with the solid earth and the atmosphere. Major emphases include: studies of material inputs to and outputs from marine waters; orthochemical and biological production and transformation of chemical compounds and phases within the marine system; and the determination of reaction rates and study of equilibria. The Program encourages research into the chemistry, distribution, and fate of inorganic and organic substances introduced into or produced within marine environments including those from estuarine waters to the deep sea.

### **Human and Ecological Health Impacts Associated with Water Reuse and Conservation Practices EPA-G2014-STAR-F1**

Closing Date for Applications: **February 18, 2014**

EPA, as part of its Science to Achieve Results (STAR) program, is seeking applications to conduct research on and demonstration of human and ecological impacts of treated wastewater applications (reclaimed water and wastewater reuse), and water conservation practices including the use of non-traditional water sources as well as more comprehensive long-term management and availability of water resources.

**Award Ceiling: \$750,000**

### **Early Career Awards: Human and Ecological Health Impacts Associated with Water Reuse and Conservation Practices EPA-G2014-STAR-F2**

Closing Date for Applications: **February 18, 2014**

EPA, as part of its Science to Achieve Results (STAR) program, is seeking applications to conduct research on and demonstration of human and ecological impacts of treated wastewater applications (reclaimed water and wastewater reuse), and water conservation practices including the use of non-traditional water sources as well as more comprehensive long-term management and availability of water resources.

**Award Ceiling: \$330,000**

### **Environmental Engineering NSF PD-14-1440**

Closing Date for Applications: **February 20, 2014**

This program supports fundamental research and education that will enable innovative processes for the sustainable production of electricity and transportation fuels. Processes for sustainable energy production must be environmentally benign, reduce greenhouse gas production, and utilize renewable resources. Current interest areas are on sustainable energy technologies. Proposals should address the novelty and/or potentially transformative nature [http://www.nsf.gov/about/transformative\\_research/faq.jsp](http://www.nsf.gov/about/transformative_research/faq.jsp) of the concept being proposed, compared to previous work in the field. Also, it is important to address why the proposed work is important in terms of engineering science, as well as to also project the potential impact on society and /or industry of success in the research. See the program description for further details.

### **Energy for Sustainability NSF PD-14-7644**

Closing Date for Applications: **February 20, 2014**

This program supports fundamental research and education that will enable innovative processes for the sustainable production of electricity and transportation fuels. Processes for sustainable energy production must be environmentally benign, reduce greenhouse gas production, and utilize renewable resources. Current interest areas are on sustainable energy technologies. Proposals should address the novelty and/or potentially transformative nature [http://www.nsf.gov/about/transformative\\_research/faq.jsp](http://www.nsf.gov/about/transformative_research/faq.jsp) of the concept being proposed, compared to previous work in the field. Also, it is important to address why the proposed work is important in terms of engineering science, as well as to also project the potential impact on society and /or industry of success in the research. See the program description for further details.

### **Environmental Sustainability NSF PD-14-7643**

Closing Date for Applications: **February 20, 2014**

The Environmental Sustainability program supports engineering research with the goal of promoting sustainable engineered systems that support human well-being and that are also compatible with sustaining natural (environmental) systems. There are four principal general research areas which are supported, but others can be proposed by contacting the program director by email at: [bhamilto@nsf.gov](mailto:bhamilto@nsf.gov): 1) Industrial Ecology; 2) Green Engineering; 3) Ecological Engineering; and, 4) Earth Systems Engineering.

Innovations in prevention and management of storm water, recycling and reuse of drinking water, and other green engineering techniques to support sustainable construction projects may also be fruitful areas for research. Engineering research in enhancement of natural capital to foster sustainable development is encouraged. The duration of unsolicited awards is generally one to three years. The average annual award size for the program is \$100,000. Faculty Early Career Development (CAREER) program proposals are strongly encouraged. Award duration is five years. The submission deadline for Engineering CAREER proposals is in July every year. Please see the following URL for more information:

[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=503214](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503214)Proposals for Conferences, Workshops, and Supplements.

### **NOAA Great Lakes Habitat Restoration Program Project Grants under the U.S. Great Lakes Restoration Initiative in Areas of Concern NOAA-NMFS-HCPO-2014-2003974**

Closing Date for Applications: **February 26, 2014**

NOAA seeks to openly compete funding available for habitat restoration in U.S. Great Lakes Areas of Concern (<http://www.epa.gov/glnpo/aoc/>) under the Great Lakes Restoration Initiative as anticipated in the President's FY2014 Budget. Applications should be submitted for any project that is to be considered for this funding, even for those projects already submitted as applications to other NOAA competitions. Projects funded through NOAA have strong on-the-ground habitat restoration components that provide social and economic benefits for people and their communities in addition to long-term ecological habitat improvements. Applications selected for funding through this solicitation will be implemented through a grant or cooperative agreement, with awards dependent upon the amount of funds made available to NOAA for this purpose by the U.S. Environmental Protection Agency. NOAA anticipates up to \$4 million may be available for Great Lakes coastal habitat restoration; typical awards for on the ground implementation are expected to range between \$500,000 and \$2 million. NOAA will also accept proposals for engineering and design of habitat restoration projects; typical awards are expected to range between \$75,000 and \$350,000. Funds will be administered by the Great Lakes Region of NOAA's Restoration Center (RC).

### **Water Resources Research National Competitive Grants Program USGS G14AS00014**

Closing Date for Applications: **March 6, 2014**

This competitive grant program focuses on water problems and issues of a regional or interstate nature beyond those of concern only to a single State and which relate to specific program priorities identified jointly by the Secretary of the Interior and the water resources research institutes. Objectives of this program include the following:

A. Promote collaboration between the USGS and university scientists in research on significant national and regional water resources issues. Proposals exhibiting substantial collaboration between the USGS and the applicant are encouraged and will receive extra weight in the evaluation and selection process.

B. Promote the dissemination and application of the results of the research funded under this program.

C. Assist in the training of scientists in relevant water resource fields.

Proposals that include a strong educational component for student support are encouraged, as are proposals from faculty beginning their careers. The USGS and NIWR prefer that research supported by this program involve substantial collaboration between the USGS and university scientists. Collaboration can range from use of USGS data and information in the research to mutual involvement of USGS and university scientists on projects.

### **Biotechnology Risk Assessment Grants (BRAG) Program USDA-NIFA-BRAP-004388**

Closing Date for Applications: **March 19, 2014**

The purpose of the BRAG program is to support the generation of new information that will assist Federal regulatory agencies in making science-based decisions about the effects of introducing into the environment genetically engineered organisms (GE), including plants, microorganisms (including fungi, bacteria, and viruses), arthropods, fish, birds, mammals and other animals excluding humans. Investigations of effects on both managed and natural environments are relevant. The BRAG program accomplishes its purpose by providing Federal regulatory agencies with scientific information relevant to regulatory issues.

### **OTHER THEMES OF SUSTAINABILITY:**

#### **Environmental Education Model Grants -- Solicitation Notice for 2013 EPA-EE-13-01**

Closing Date for Applications: **February 4, 2014**

EPA is seeking grant applications from eligible applicants to support environmental education projects that promote environmental stewardship and help develop knowledgeable and responsible students, teachers, and citizens. This grant program provides financial support for projects that design, demonstrate, and/or disseminate environmental education practices, methods, or techniques, as described in this notice, and that will serve as models that can be replicated in a variety of settings.

#### **Hazard Mitigation and Structural Engineering NSF PD-13-1637**

Closing Date for Applications: **January 15, 2014 - February 15, 2014  
September 01, 2014 - October 01, 2014**

The Hazard Mitigation and Structural Engineering (HMSE) program supports fundamental research to mitigate impacts of natural and anthropogenic hazards on civil infrastructure and to advance the reliability, resiliency, and sustainability of buildings and other structures. Hazards considered within the program include earthquake, tsunami, hurricane, tornado and other loads, as well as explosive and impact loading. Research is encouraged that integrates structural and architectural engineering advances with discoveries in other science and engineering fields, such as earth and atmospheric sciences, material science, mechanics of materials, sensor technology, high performance computational modeling and simulation, dynamic system and control,

and economics. The program seeks to fund transformative and cost-effective innovations for hazard mitigation of both new and rehabilitated buildings and other structures. Research in structural and architectural engineering is encouraged that extends beyond mature or current construction materials into investigations of smart and sustainable materials and technologies, and considers the structures in their entirety. In addition, the program funds research on structural health monitoring that goes beyond data acquisition to include the holistic system, integrating condition assessment and decision making tools to improve structural performance.

### **Human and Ecological Health Impacts Associated with Water Reuse and Conservation Practices**

#### **EPA-G2014-STAR-F1**

Closing Date for Applications: **February 18, 2014**

EPA, as part of its Science to Achieve Results (STAR) program, is seeking applications to conduct research on and demonstration of human and ecological impacts of treated wastewater applications (reclaimed water and wastewater reuse), and water conservation practices including the use of non-traditional water sources as well as more comprehensive long-term management and availability of water resources.

**Award Ceiling: \$750,000**

### **Early Career Awards: Human and Ecological Health Impacts Associated with Water Reuse and Conservation Practices**

#### **EPA-G2014-STAR-F2**

Closing Date for Applications: **February 18, 2014**

EPA, as part of its Science to Achieve Results (STAR) program, is seeking applications to conduct research on and demonstration of human and ecological impacts of treated wastewater applications (reclaimed water and wastewater reuse), and water conservation practices including the use of non-traditional water sources as well as more comprehensive long-term management and availability of water resources.

**Award Ceiling: \$330,000**

### **Environmental Sustainability**

#### **NSF PD-14-7643**

Closing Date for Applications: **February 20, 2014**

The Environmental Sustainability program supports engineering research with the goal of promoting sustainable engineered systems that support human well-being and that are also compatible with sustaining natural (environmental) systems. There are four principal general research areas which are supported, but others can be proposed by contacting the program director by email at: [bhamilto@nsf.gov](mailto:bhamilto@nsf.gov): 1) Industrial Ecology; 2) Green Engineering; 3) Ecological Engineering; and, 4) Earth Systems Engineering. Innovations in prevention and management of storm water, recycling and reuse of drinking water, and other green engineering techniques to support sustainable construction projects may also be fruitful areas for research. Engineering research in enhancement of natural capital to foster sustainable development is encouraged. The duration of unsolicited awards is generally one to three years. The average annual award size for the program is \$100,000. Faculty Early Career Development (CAREER)

program proposals are strongly encouraged. Award duration is five years. The submission deadline for Engineering CAREER proposals is in July every year. Please see the following URL for more information:  
[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=503214](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503214)Proposals for Conferences, Workshops, and Supplements.

### **Energy for Sustainability NSF PD-14-7644**

Closing Date for Applications: **February 20, 2014**

This program supports fundamental research and education that will enable innovative processes for the sustainable production of electricity and transportation fuels. Processes for sustainable energy production must be environmentally benign, reduce greenhouse gas production, and utilize renewable resources. Current interest areas are on sustainable energy technologies. Proposals should address the novelty and/or potentially transformative nature

[http://www.nsf.gov/about/transformative\\_research/faq.jsp](http://www.nsf.gov/about/transformative_research/faq.jsp) of the concept being proposed, compared to previous work in the field. Also, it is important to address why the proposed work is important in terms of engineering science, as well as to also project the potential impact on society and /or industry of success in the research. See the program description for further details.

### **Plant Feedstock Genomics for Bioenergy: A Joint Research Funding Opportunity Announcement USDA, DOE DE-FOA-0001034**

Closing Date for Applications: **February 25, 2014**

The DOE Office of Science, Office of Biological and Environmental Research (OBER), and the U.S. Department of Agriculture (USDA), National Institute of Food and Agriculture (NIFA), hereby announce their interest in receiving applications for genomics- based research that will lead to the improved use of biomass and plant feedstocks for the production of fuels such as ethanol or renewable chemical feedstocks. Specifically, applications are sought for research on plants that will improve biomass and oil seed characteristics, yield, or sustainability. Research to overcome the biological barriers to the low-cost, high-quality, scalable and sustainable production of bioenergy feedstocks using the tools of genetics and genomics are encouraged.

### **Systems-based Research for Evaluating Ecological Impacts of Manufactured Chemicals EPA-G2014-STAR-E1**

Closing Date for Applications: **March 4, 2014**

EPA, as part of its Science to Achieve Results (STAR) program, is seeking applications focusing on integrated, transdisciplinary research that would advance scientific understanding of potential for impacts to ecosystem well-being associated with the use of manufactured chemicals. Specifically, the RFA would solicit proposals for systems-based research to develop and apply innovative metrics and modeling approaches to improve evaluation of ecological resilience and impact analyses, and to support environmental sustainability. Successful proposals will translate emerging and

advanced methods, data, and computational tools to address complexity of these systems and distill drivers of adverse outcomes to ecological organisms and populations.

### **Early Career Awards: Systems-based Research for Evaluating Ecological Impacts of Manufactured Chemicals**

#### **EPA-G2014-STAR-E2**

Closing Date for Applications: **March 4, 2014**

EPA, as part of its Science to Achieve Results (STAR) program, is seeking applications focusing on integrated, transdisciplinary research that would advance scientific understanding of potential for impacts to ecosystem wellbeing associated with the use of manufactured chemicals. Specifically, the RFA would solicit proposals for systems-based research to develop and apply innovative metrics and modeling approaches to improve evaluation of ecological resilience and impact analyses, and to support environmental sustainability. Successful proposals will translate emerging and advanced methods, data, and computational tools to address complexity of these systems and distill drivers of adverse outcomes to ecological organisms and populations.

### **Cyber-Innovation for Sustainability Science and Engineering**

#### **NSF 14-531**

Closing Date for Applications: **April 08, 2014**

February 03, 2015

First Tuesday in February, Annually Thereafter

The Cyber-Innovation for Sustainability Science and Engineering (CyberSEES) program aims to advance interdisciplinary research in which the science and engineering of sustainability are enabled by new advances in computing, and where computational innovation is grounded in the context of sustainability problems. In the SEES context, a sustainable world is one where human needs are met equitably without harm to the environment or sacrificing the ability of future generations to meet their own needs. CyberSEES supports research on all sustainability topics that depend on advances in computational areas including optimization, modeling, simulation, prediction, and inference; large-scale data management and analytics; advanced sensing techniques; human computer interaction and social computing; infrastructure design, control and management; and intelligent systems and decision-making. Additionally, the widespread, intensive use of computing technologies also introduces sustainability challenges and motivates new approaches across the lifecycle of technology design and use.