

# **Grants Opportunities: Energy & Environment (14)** **March-May 2014**

## **Climate and Earth System Modeling: SciDAC and Climate Variability and Change**

**Granting Agency:** The Office of Science

**Current Closing Date for Applications:** 03/03/2014

**Eligibility:** Unlimited, except nonprofit organizations described in section 501(c)(4) of the Internal Revenue Code of 1986 that engaged in lobbying activities after December 31, 1995.

**Estimated Total Program Funding:** \$8,000,000

**CFDA Number:** 81.049

**Funding Opportunity Number:** DE-FOA-0001036

Climate and Earth System Modeling is part of the Climate and Environmental Sciences Division (CESD) of the U.S. Department of Energy's Office of Biological and Environmental Research (BER). 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. The ESM and RGCM programs are thus complementary, with ESM focused mainly on climate model development, and RGCM focused mainly on climate system analysis. Both modeling programs collaborate and coordinate with the Terrestrial Ecosystem Science (TES) and Atmospheric System Research (ASR) programs, by utilizing TES and ASR process research activities to inform model development, and by using model simulations to identify where further process research is required in atmospheric and terrestrial systems.

**For more information, go to:** <https://www.fedconnect.net/>

## **Systems-Based Research For Evaluating Ecological Impacts Of Manufactured Chemicals**

**Granting Agency:** Environmental Protection Agency

**Current Closing Date for Applications:** 03/04/2014

**Estimated Total Program Funding:** \$4,000,000

**CFDA Number:** 66.509

**Funding Opportunity Number:** EPA-G2014-STAR-E1

The U.S. Environmental Protection Agency (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.

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**Current Closing Date for Applications:** 03/04/2014

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**CFDA Number:** 66.509 -- Science To Achieve Results (STAR) Research Program

**Funding Opportunity Number:** EPA-G2014-STAR-E1

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

**Granting Agency:** Geological Survey — Department of the Interior

**Current Closing Date for Applications:** 03/06/2014

**Estimated Total Program Funding:** \$1,000,000

**CFDA Number:** 15.805 -- Assistance to State Water Resources Research Institutes

**Funding Opportunity Number:** G14AS00014

Section 104g of the Water Resources Research Act of 1984 requires that this competitive grant program focus 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 also 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. Collaborative proposals should describe in detail the respective roles of the USGS and the applicant in the proposed work. Potential applicants seeking collaborative opportunities are encouraged to contact USGS Water Science Center Directors. Potential applicants are also encouraged to contact the Water Resources Research Branch Chiefs see Attachment F for contact information. 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 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.

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# Resident Instruction Grants Program for Institutions of Higher Education in Insular Areas

**Granting Agency:** National Institute of Food and Agriculture — Department of Agriculture

**Current Closing Date for Applications:** 03/07/2014

**Estimated Total Program Funding:** \$900,000

**CFDA Number:** 10.308 -- Resident Instruction Grants for Insular Area Activities

**Funding Opportunity Number:** USDA-NIFA-RIGP-004414

The purpose of this program is to promote and strengthen the ability of Insular Area Institutions to carry out teaching and education programs within a broadly defined arena of food and agricultural sciences-related disciplines. By strengthening institutional educational capacities in instruction and curriculum, and enhancing the quality of teaching and learning, NIFA intends that this program will help Insular Area Institutions meet their unique needs. This program also will assist Insular Area Institutions to make more efficient use of existing educational funds by providing resources for partnerships between faculties at Insular Area and mainland institutions.

**For more information, go to:** [www.nifa.usda.gov/funding/rfas/resident\\_insular.html](http://www.nifa.usda.gov/funding/rfas/resident_insular.html)

## Low or No Emission Vehicle Deployment Program (LoNo Program)

**Granting Agency:** DOT/Federal Transit Administration — Department of Transportation

**Current Closing Date for Applications:** 03/10/2014

**Eligibility:** An Eligible Area is designated as a nonattainment area for ozone or carbon monoxide under section 107(d) of the Clean Air Act (42 U.S.C. 7407(d)); or maintenance area, as defined in section 5303, for ozone or carbon monoxide. An Eligible Applicant is a recipient for an eligible area and designated, in accordance with the planning process under section 5303 and 5304, by a Governor of a State, responsible local officials, and publicly owned operators of public transportation, to receive and apportion amounts under section 5336 to urbanized areas of 200,000 or more in population; or a State, for an urbanized area in which an “eligible area” as defined under section 5312(d)(5)(A)(i) is located that also has a population under 200,000 individuals, as determined by the Bureau of the Census.

**Estimated Total Program Funding:** \$24,900,000

**CFDA Number:** 20.514

**Funding Opportunity Number:** FTA-2014-001-TRI

Notice of Funding Availability (NOFA): Solicitation of Project Proposals for the Low or No Emission Vehicle Deployment Program (LoNo) Program. The Federal Transit Administration (FTA) announces the availability of \$24.9 million of Fiscal Year 2013 funds for the deployment of low or no emission transit buses. Of that amount, \$21.6 million is available for buses and \$3.3 million is available for supporting facilities and related equipment. The main purpose of the LoNo Program is to deploy the cleanest and most energy efficient U.S.-made transit buses that have been largely proven in testing and demonstrations but are not yet widely deployed in transit

fleets. The LoNo Program provides funding for transit agencies for capital acquisitions and leases of zero emission and low-emission transit buses, including acquisition, construction, and leasing of required supporting facilities such as recharging, refueling, and maintenance facilities. **For more information, go to:** [http://www.fta.dot.gov/grants/13077\\_15782.html](http://www.fta.dot.gov/grants/13077_15782.html)

## **National Incubator Initiative for Clean Energy (NIICE)**

**Granting Agency:** Golden Field Office — Department of Energy

**Current Closing Date for Applications:** 03/21/2014

**Expected Number of Awards:** 6

**Eligibility:** Unrestricted

**Estimated Total Program Funding:** \$3,000,000

**CFDA Number:** 81.117

**Funding Opportunity Number:** DE-FOA-0001042

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: ?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; ?Strengthen support for early-stage companies developing high-risk technologies and scaling from prototype to domestically-based production; and ?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. **For more information, go to:** <https://eere-exchange.energy.gov/>

## **FY 2014 VEHICLE TECHNOLOGIES PROGRAM WIDE FUNDING OPPORTUNITY ANNOUNCEMENT**

**Granting Agency:** National Energy Technology Laboratory — Department of Energy

**Current Closing Date for Applications:** 04/02/2014

**Eligibility:** Unrestricted

**Estimated Total Program Funding:** \$49,400,000

**CFDA Number:** 81.086

**Funding Opportunity Number:** DE-FOA-0000991

The Vehicle Technologies Office supports a broad research, development, and deployment technology portfolio focused on reducing the cost and improving the performance of a mix of

near- and long-term vehicle technologies including advanced batteries, power electronics and electric motors, lightweight and propulsion materials, advanced combustion engines, advanced fuels and lubricants, and other enabling technologies. Specifically, activities are aimed at meeting the goals and objectives of the President's Electric Vehicle Everywhere Grand Challenge as well as improvements in other vehicle technologies such as powertrains, fuel, tires, and auxiliary systems and Vehicle Technologies Office . Investment in advanced vehicle technologies, like vehicle electrification, lightweighting, and combustion engines will yield benefits to conventional vehicles, as well as yielding the technologies necessary for alternative fuel vehicles. This Funding Opportunity Announcement contains a total of 13 areas of interest in the general areas of advanced light-weighting; advanced battery development; power electronics; advanced heating, ventilation, air conditioning systems; and fuels and lubricants. The full Funding Opportunity Announcement (FOA) is posted on the EERE eXCHANGE website at <https://eere-exchange.energy.gov>

## Dimensions of Biodiversity

**Granting Agency:** National Science Foundation

**Current Closing Date for Applications:** 04/03/2014

**Expected Number of Awards:** 12

**Eligibility:** Unrestricted

**Estimated Total Program Funding:** \$22,000,000

**CFDA Number:** 47.050, 47.074

**Funding Opportunity Number:** 14-525

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. With this loss, humanity is losing links in the web of life that provide ecosystem services, forfeiting an understanding of the history and future of the living world, and losing opportunities for future beneficial discoveries in the domains of food, fiber, fuel, pharmaceuticals, and bio-inspired innovation. 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. The campaign promotes novel, integrated approaches to identify and understand the evolutionary and ecological significance of biodiversity amidst the changing environment of the present day and in the geologic past. **For more information, go to:** [http://www.nsf.gov/publications/pub\\_summ.jsp?ods\\_key=nsf14525](http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf14525)

## Northern Sierra Nevada Fisher Translocation Continuity

**Granting Agency:** Fish and Wildlife Service

**Expected Number of Awards:** 1

**CFDA Number:** 15.608

**Funding Opportunity Number:** F13AS00103

This agreement provides funding for the Wildlife Conservation Society (WCS) to provide both field technicians and a project manager for a cooperative fisher research and monitoring projects in the northern Sierra Nevada. Cooperators include: the California Department of Fish &

Wildlife (CDFW), the US Fish & Wildlife Service (USFWS), Sierra Pacific Industries, and North Carolina State University (NCSU). The objective is to fulfill the research and monitoring needs identified in the Service's Candidate Conservation Agreement with Assurances (CCAA) for the fisher on the Stirling Management Area, Sierra Pacific Industries. One of the objectives of the CCAA was to provide an avenue to translocate fishers (a candidate species for listing under ESA) to an area of their range where they no longer existed. In addition, this project is designed to study fishers responses to timber harvest related activities within an industrial, sustained-yield managed forest.

## Partners for Fish and Wildlife 2014

**Granting Agency:** Fish and Wildlife Service

**Current Closing Date for Applications:** Applications will due at least 30 days before the end of FY14

**Expected Number of Awards:** 5000

**Eligibility:** Nonprofits with or without a 501(c)(3) status with the IRS; Small businesses; For profit organizations; Individuals; Private, Public and State controlled institutions of higher education

**Estimated Total Program Funding:** \$22,000,000

**CFDA Number:** 15.631 -- Partners for Fish and Wildlife

**Funding Opportunity Number:** F14AS00015

The Partners for Fish and Wildlife (PFW) Program is a voluntary, incentive-based program that provides direct technical assistance and financial assistance in the form of cooperative agreements to private landowners to restore and conserve fish and wildlife habitat for the benefit of federal trust resources. The PFW Program is delivered through more than 250 full-time staff, active in all 50 States and territories. Partners for Fish and Wildlife Program staff coordinate with project partners, stakeholders, and other Fish and Wildlife Service (Service) programs to identify geographic focus areas and develop habitat conservation priorities within these focus areas. Geographic focus areas are where the PFW Program directs resources to conserve habitat for federal trust species. Project work plans are developed strategically, in coordination with partners, and with substantial involvement from Service field staff. Projects must advance our mission, promote biological diversity, and be based upon sound scientific biological principles. Program strategic plans inform the types of projects funded under this opportunity. Applications seeking funding under this program should review the program strategic plan and also contact the regional PFW Program office prior to submitting an application for funding.

## National Fish Habitat Action Plan

**Granting Agency:** Fish and Wildlife Service

**Current Closing Date for Applications:** There is no closing date for applications. Project proposals are accepted continuously. Proposals are held in a FWS database until the project is funded or no longer available.

**Expected Number of Awards:** 65

**Eligibility:** Unrestricted

**Estimated Total Program Funding:** \$4,000,000

**CFDA Number:** 15.608

**Funding Opportunity Number:** F14AS00012

The National Fish Habitat Action Plan is a national investment strategy to leverage federal and privately raised funds to protect, restore and enhance the nations fish and aquatic communities through partnerships that foster fish habitat conservation.

**For more information, go to:** <http://www.grants.gov/web/grants/home.html>

## Paleoclimate

**Granting Agency:** National Science Foundation

**Eligibility:** Unrestricted

**CFDA Number:** 47.050

**Funding Opportunity Number:** PD-98-1530

Supports research on the natural evolution of Earth's climate with the goal of providing a baseline for present variability and future trends through improved understanding of the physical, chemical, and biological processes that influence climate over the long-term. The Geosciences Directorate and the Office of Polar Programs have joined in creating the annual Paleo Perspectives on Climate Change (P2C2) competition in paleoclimate global change research. Researchers are encouraged to consider the P2C2 competition as a possible source of support for their global change research. Since proposals eligible for funding in the P2C2 competition are not eligible for funding in the Paleoclimate Program, researchers are strongly advised to contact the Director of the Paleoclimate Program for guidance as to the suitability of their proposed research for either program. **For more information, go to:**

[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=12727](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=12727)