

# **Grants Opportunities: Energy (16)**

## **Dec. 2014 - March 2015**

### **Paleoclimate**

**Granting Agency:** National Science Foundation

**Current Closing Date:** Full Proposals accepted anytime

**Expected Number of Awards:** N/A

**Eligibility:** Unrestricted (i.e., open to any type of entity above), subject to any clarification in text field entitled "Additional Information on Eligibility"

**Estimated Total Program Funding:** N/A

**CFDA Number:** 47.050

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

**Paragraph-long description:** 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)

([http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=5750](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5750)) 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)

### **Climate and Large-Scale Dynamics**

**Granting Agency:** National Science Foundation

**Current Closing Date:** Full Proposals accepted anytime

**Expected Number of Awards:** 0

**Eligibility:** Unrestricted (i.e., open to any type of entity above), subject to any clarification in text field entitled "Additional Information on Eligibility"

**Estimated Total Program Funding:** \$0

**CFDA Number:** 47.050

**Funding Opportunity Number:** PD-06-5740

The goals of the Program are to: (i) advance knowledge about the processes that force and regulate the atmosphere's synoptic and planetary circulation, weather and climate, and (ii) sustain the pool of human resources required for excellence in synoptic and global atmospheric dynamics and climate research. Research topics include theoretical, observational and modeling studies of the general circulation of the stratosphere and troposphere; synoptic scale weather phenomena; processes that govern climate; the causes of climate variability and change; methods to predict climate variations; extended weather and climate predictability; development and testing of parameterization of physical processes; numerical methods for use in large-scale weather and climate models; the assembly and analysis of instrumental and/or modeled weather and climate data; data assimilation

studies; development and use of climate models to diagnose and simulate climate and its variations and change. Some Climate and Large Scale Dynamics (CLD) proposals address multidisciplinary problems and are often co-reviewed with other NSF programs, some of which, unlike CLD, use panels in addition to mail reviewers, and thus have target dates or deadlines. Proposed research that spans in substantive ways topics appropriate to programs in other divisions at NSF, e.g., ocean sciences, ecological sciences, hydrological sciences, geography and regional sciences, applied math and statistics, etc., must be submitted at times consistent with target dates or deadlines established by those programs. **For more information, go to:**  
[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=11699](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=11699)

## **Projects to Improve Air Quality at Ports - 2014 Diesel Emissions Reduction Act (DERA) Funding Opportunity**

**Granting Agency:** Environmental Protection Agency

**Current Closing Date for Applications:** Dec 11, 2014 Please refer to the announcement, including Section IV, for additional information on submission methods and due dates.

**Expected Number of Awards:** 5

**Eligibility:** See Section III of the announcement for additional eligibility information.

**Estimated Total Program Funding:** \$5,000,000

**CFDA Number:** 66.039 -- National Clean Diesel Emissions Reduction Program

**Funding Opportunity Number:** 2014-NIST-FS-COE-01

EPA's Office of Transportation and Air Quality (OTAQ) is soliciting proposals that achieve significant reductions in diesel emissions in terms of tons of pollution produced by diesel engines and diesel emissions exposure, from fleets operating at marine and inland water ports located in areas of poor air quality. Eligible diesel emission reduction solutions include verified emission control technologies such as exhaust controls and engine upgrades, verified idle reduction technologies; certified engine repowers, and/or certified vehicle or equipment replacements. Please refer to Page 2 for a summary of important funding limits regarding these emission reduction solutions. Eligible diesel vehicles, engines and equipment may include drayage trucks, marine engines, locomotives and no road engines, equipment or vehicles used in the handling of cargo at a marine or inland water port. Eligible entities include public port authorities and state or local government agencies with jurisdiction over transportation or air quality. Community groups, terminal operators, shipping carriers, nonprofits, and other business entities involved in port operations are encouraged to participate through partnerships with eligible applicants. See Section III for further eligibility information. **For more information, go to:**  
<http://www.nist.gov/coe/forensics/upload/ForensicScienceFFO.pdf>

## **Wind Energy – Bat Impact Minimization Technologies and Field Testing Opportunities**

**Granting Agency:** Golden Field Office

**Current Closing Date for Applications:** Jan 7, 2015

**Estimated Total Program Funding:** \$0

**Eligibility:** Unrestricted

**CFDA Number:** 81.087 – Renewable Energy Research and Development

**Funding Opportunity Number:** DE-FOA-0001181

Please review important information below about the EERE Exchange website as it relates to this FOA. To address and minimize the regulatory and financial risks associated with wind power development in locations with sensitive bat species, the Department of Energy's (DOE) Wind and Water Power Technologies Office (WWPTO) within the Office of Energy Efficiency and Renewable Energy (EERE) seeks to fund Research and Development (R&D) projects that advance the technical readiness of bat impact mitigation and minimization technologies. This FOA will also support the field testing and evaluation of near-commercial bat impact mitigation technologies, which if successful, will provide regulators and wind facility owner-operators with viable and cost effective tools to reduce their impacts on bats and ease the regulatory & financial uncertainty related to the development and long-term operation of wind farms in bat habitat. The full Funding Opportunity Announcement (FOA) is posted on the EERE Exchange website at <https://eere-exchange.energy.gov>. Applications must be submitted through the EERE Exchange website to be considered for award. The applicant must first register and create an account on the EERE Exchange website. A User Guide for the EERE Exchange website can be found on the website <https://eere-exchange.energy.gov/Manuals.aspx>. 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. **For more information, go to:** <https://eere-exchange.energy.gov>

## **Buildings Energy Efficiency Frontier & Innovation Technologies (BENEFIT) - 2015**

**Granting Agency:** Golden Field Office

**Current Closing Date for Applications:** Jan 12, 2015

**Expected Number of Awards:** 6

**Estimated Total Program Funding:** \$7,750,000

**Eligibility:** Unrestricted

**CFDA Number:** 81.086 – Conservation Research and Development

**Funding Opportunity Number:** DE-FOA-0001166

The Emerging Technologies (ET) Program of the Building Technologies Office (BTO) supports applied research and development for technologies and systems that contribute to building energy consumption. BTO's goal is to deliver 50% primary energy savings in the year 2030, relative to the baseline energy consumption projected by the 2010 Annual Energy Outlook. The ET Program is helping to meet this goal by enabling cost-effective, energy-efficient technologies to be developed and introduced into the marketplace. The ET Program maintains support for the national laboratories in five core areas: Solid-State Lighting, HVAC (includes water heating and appliances), Sensors & Controls, Windows & Envelope, and Modeling & Tools. This Funding Opportunity Announcement (FOA) combines an early-stage research and development topic (Innovations) with a later-stage research and development topic (Frontiers) that complement the

core funding provided to the national labs and allow all interested parties, including corporations, universities, and non-profits as well as the national labs, to contribute to advancement in two of these core technological areas: Non-vapor compression HVAC technologies and advanced vapor compression HVAC technologies. These topics are combined into this single, relatively large FOA in order to reduce administrative costs and to ensure that only the best applications are supported. **For more information, go to:** <https://eere-exchange.energy.gov>

## **Funding Opportunity Announcement (FOA) Landscape Design for Sustainable Bioenergy Systems**

**Granting Agency:** Golden Field Office

**Current Closing Date for Applications:** Jan 12, 2015

**Estimated Total Program Funding:** \$14,000,000

**Eligibility:** Unrestricted

**CFDA Number:** 81.087 – Renewable Energy Research and Development

**Funding Opportunity Number:** DE-FOA-0001179

EERE is seeking interdisciplinary projects that apply landscape design approaches to integrate cellulosic feedstock production into existing agricultural and forestry systems while maintaining or enhancing environmental and socio-economic sustainability including ecosystem services and food, feed, and fiber production. For the purposes of this FOA, cellulosic feedstock production refers to dedicated annual and perennial energy crops, use of agricultural and forestry residues, or a combination of these options. **For more information, go to:** <https://eere-exchange.energy.gov>

## **Early Career Awards: Water Quality Benefits**

**Granting Agency:** Environmental Protection Agency

**Current Closing Date for Applications:** Jan 14, 2015

**Expected Number of Awards:** 2

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

**Eligibility:** Public nonprofit institutions/organizations (includes public institutions of higher education and hospitals); private nonprofit institutions/organizations (includes private institutions of higher education and hospitals).

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

**Funding Opportunity Number:** EPA-G2015-STAR-A2

The U.S. Environmental Protection Agency (EPA), as part of its Science to Achieve Results (STAR) program, is seeking applications proposing research to advance knowledge of how changes in water quality, including incremental or step improvements, can be valued at appropriate spatial scales using advanced non-use valuation methods for the Nation's inland fresh water small streams, lakes and rivers, estuaries, coastal waters, and the Great Lakes. For

purposes of this Request for Applications (RFA), small streams are defined as streams that are perennial and wadeable.

**For more information, go to:** <http://epa.gov/ncer/rfa/2015/2015-star-water-quality.html>

## **Solid-State Lighting Advanced Technology Research and Development 2015**

**Granting Agency:** National Energy Technology Laboratory

**Current Closing Date for Applications:** Jan 15, 2015

**Expected Number of Awards:** 10

**Estimated Total Program Funding:** \$10,000,000

**Eligibility:** Unrestricted

**CFDA Number:** 81.086 -- Conservation Research and Development

**Funding Opportunity Number:** DE-FOA-0001171

Through research and development of solid state lighting (SSL) including both light emitting diode and organic light emitting diode technologies the objectives of this opportunity are to maximize the energy efficiency of SSL products in the market place, remove market barriers through improvements to lifetime, color quality, and lighting system performance, reduce costs of SSL sources and luminaires, improve product consistency while maintaining high quality products, and encourage the growth, leadership, and sustainability of domestic US manufacturing within the SSL industry. **For more information, go to:** <https://eere-exchange.energy.gov/>

## **Advancing Solutions to Improve the Energy Efficiency of U.S. Commercial Buildings**

**Granting Agency:** Golden Field Office

**Current Closing Date for Applications:** Jan 20, 2015

**Eligibility:** Small businesses; Nonprofits having a 501(c)(3) status with the IRS, other than institutions of higher education; Independent school districts; Nonprofits that do not have a 501(c)(3) status with the IRS, other than institutions of higher education; Public and State controlled institutions of higher education; For profit organizations other than small businesses; Private institutions of higher education

Individuals; Public housing authorities/Indian housing authorities

**CFDA Number:** 81.086 -- Conservation Research and Development

**Funding Opportunity Number:** DE-FOA-0001168

The Department of Energy (DOE) Office of Energy Efficiency and Renewable Energy (EERE) has issued, on behalf of the Buildings Technology Office, a Funding Opportunity Announcement (FOA) number DE-FOA-0001168 entitled "Advancing Solutions to Improve the Energy Efficiency of U.S. Commercial Buildings." The full text of the Funding Opportunity Announcement is posted on the EERE eXCHANGE website at <https://eere-exchange.energy.gov>. Through the FOA, DOE seeks to fund the scale-up of promising solutions to the market barriers that hinder the growth of energy efficiency in the commercial building sector. The objective of this funding is to build a path for market-ready solutions to be used at scale across the U.S. to improve building energy efficiency. In order for the Building Technologies Office Commercial

Building Integration Program to meet DOE's national energy efficiency goals for commercial buildings (20% improvement by 2020; 50% by 2030), the program has invested in the development of resources, tools, and solutions designed to help overcome these barriers to energy efficiency. Successful proposals will deploy one or more of these resources, tools and solutions through successful existing programs or innovative new ones, to increase program impact and increase energy savings in commercial buildings. Coalitions of organizations are encouraged to apply together in order to better leverage current deployment channels, market orientation, strategic relationships and overall deployment impact (geographic, sector or otherwise.) Successful applicants will succinctly summarize persistent market barriers, the solution or solutions proposed to overcome one or more market barriers, and the deployment opportunity and plan to achieve results. DOE is interested in proposals that will impact a significant geographic or market sector (at least 100 buildings is the minimum for consideration). Proposals should develop a program over the grant period that can be self-sustaining without DOE funding after the funding period ends. **For more information, go to:** <https://eere-exchange.energy.gov/>

## **USDA-FS-WERC-2015**

**Granting Agency:** Forest Service

**Current Closing Date for Applications:** Jan 23, 2015

**Expected Number of Awards:** 25

**Estimated Total Program Funding:** \$5,000,000

**Eligibility:** School districts; communities; not-for-profit organizations; or special purpose districts

**CFDA Number:** 0.674 -- Wood Utilization Assistance

**Funding Opportunity Number:** USDA-FS-WERC-2015

OVERVIEW INFORMATION Catalog of Domestic Assistance Number is 10.674 Program name is Wood Utilization Assistance Important Dates: October 27, 2014 Issuance of Request for Proposals January 23, 2015 Proposal submission deadline Synopsis of Funding Opportunity The U.S. Forest Service (Forest Service) requests proposals to substantially expand and accelerate wood energy and wood products markets throughout the United States to support forest management needs on National Forest System and other forest lands. This Request for Proposals focuses on the following priorities: • Reduce hazardous fuels and improve forest health on National Forest System and other forest lands. • Reduce costs of forest management on all land types. • Promote economic and environmental health of communities. Funding will be awarded in two separate grant categories: GRANT CATEGORY 1: EXPANSION OF WOOD ENERGY MARKETS The intent of this category is to stimulate, expand, or support wood energy markets that depend on forest residues or forest byproducts generated from all land types. Preference will be given to projects that make use of low-value wood generated from National Forest System and other forest lands with high wildfire risk. Subcategories include: 1. Statewide Wood Energy Teams 2. Wood Energy Projects 3. Wood Energy Markets GRANT CATEGORY 2: EXPANSION OF WOOD PRODUCTS MARKETS The intent of this category is to promote markets that create or expand the demand for non-energy based wood products. Preference will be given to projects that support commercial building markets or other markets that use existing or innovative wood products. Wood energy projects will not be considered under this category because those projects can apply for funding under Grant Category 1. Completed electronic

applications are due to the Regional Biomass Coordinator designated for your Forest Service region by 11:59 p.m. on January 23, 2015. Each submittal must consist of two separate PDF files, as follows: 1. Proposal narrative and appendixes (Wood Innovations Application Parts 1 and 2) 2. Financial Forms (Wood Innovations Application Part 3) Searchable format PDF files are preferred. For more details, visit <http://www.na.fs.fed.us/werc/> and click on the link to the 2015 Wood Innovations Grant Program. Individuals who use telecommunication devices for the deaf (TDD) may call the Federal Relay Service at 800-877-8339 24 hours a day, every day of the year, including holidays.

**For more information, go to:** <http://www.na.fed.us/werc/>

# Office of Weather and Air Quality Hazardous Weather and Hydrometeorology Testbed Competitions

**Granting Agency:** Department of Commerce

**Current Closing Date for Applications:** Jan 28, 2015

**Expected Number of Awards:** 12

**Estimated Total Program Funding:** \$1,400,000

**Eligibility:** Nonprofits having a 501(c)(3) status with the IRS, other than institutions of higher education; Nonprofits that do not have a 501(c)(3) status with the IRS, other than institutions of higher education; Public and State controlled institutions of higher education; For profit organizations other than small businesses; Small businesses; Private institutions of higher education

**CFDA Number:** 11.459 -- Weather and Air Quality Research

**Funding Opportunity Number:** NOAA-OAR-OWAQ-2015-2004230

The Office of Oceanic and Atmospheric Research (OAR), National Oceanic and Atmospheric Administration (NOAA), is soliciting LOIs under the United States Weather Research Program (USWRP), as administrated by the Hydrometeorology Testbed (HMT) and Hazardous Weather Testbed (HWT). HMT advances hydrometeorological methods, models, observations, and decision support tools and leads the transfer of relevant research and technology advances to NWS operations at local, regional, or national levels. HWT focuses on the transfer of relevant research and technology advances in hazardous weather, severe convection, and related forecast operations. This notice also provides guidelines for the submission of full proposals and describes opportunities and application procedures for research that supports the overall mission of HMT and HWT. Eligible applicants are institutions of higher education; other nonprofits; commercial organizations; international organizations; state, local and Indian tribal governments; and federal agencies. This notice calls for researchers to submit proposals to test and evaluate, and modify if necessary, in a (quasi-operational) experimental environment, their own scientific and technological research applications. Proposals aimed at tools and/or applications are encouraged to plan for and use these annual experiments as a testing mechanism during the 2016 calendar year. If a tool/technique is selected for testing, associated projects are expected to visit the testbed to explain the tool/technique, and help facilitate testing. Projects satisfying metrics for success and operational constraints may be selected for operational implementation by the

operational center(s) after the completion of the USWRP-funded work. The period of the award is from one to two years.

## **FY2015 Scientific Infrastructure Support for Consolidated Innovative Nuclear Research (CINR)**

**Granting Agency:** Idaho Field Office

**Current Closing Date for Applications:** Feb 2, 2015

**Expected Number of Awards:** 22

**Estimated Total Program Funding:** \$6,500,000

**Eligibility:** Private institutions of higher education; Public and State controlled institutions of higher education

**CFDA Number:** 81.121 -- Nuclear Energy Research, Development and Demonstration

**Funding Opportunity Number:** DE-FOA-0001130

The Department of Energy's (DOE) Office of Nuclear Energy (NE) conducts crosscutting nuclear energy research and development (R&D) and associated infrastructure support activities to develop innovative technologies that offer the promise of dramatically improved performance for advanced reactors and fuel cycle concepts while maximizing the impact of DOE resources. The development of nuclear energy-related infrastructure and basic capabilities in the research community is necessary to promote R&D that supports nuclear science and engineering (NS&E), DOE-NE's mission, and the Nation's nuclear energy challenges. Accordingly, DOE intends to enable the education and training of nuclear scientists, engineers, and policy-makers in graduate and undergraduate study and two-year programs, as well as R&D that is relevant to the Department and the nuclear energy industry in general. The Nuclear Energy University Program (NEUP) utilizes up to 20 percent of funds appropriated to NE's R&D program for university-based infrastructure support and R&D in key NE program-related areas: • Fuel Cycle Research and Development (FCR&D) • Reactor Concepts Research • Development and Demonstration (RCRD&D) • Nuclear Energy Advanced Modeling and Simulation (NEAMS). Nuclear Energy Enabling Technologies Crosscutting Technology Development (NEET CTD) supports national laboratory, university and industry led crosscutting research and national laboratory infrastructure support. The infrastructure requested should be individual, discrete, and definable items or capabilities that will support, maintain, or enhance the institutions' capacities to attract and teach high quality students interested in nuclear energy-related studies; build the institutions' research or education capabilities; or enhance the institutions' capacities to perform R&D that is relevant to DOE-NE's mission. NE reserves the right to respond to potential shifts in priorities during FY 2015 that may be driven by events, policy developments, or Congressional/budget direction. NE will factor such considerations into decisions related to the timing and scale of award announcements associated with this FOA.

## **Study of Nuclear Bodies and Compartments**

**Granting Agency:** National Institutes of Health

**Current Closing Date for Applications:** Feb 2, 2015

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

**Eligibility:** Nonprofits that do not have a 501(c)(3) status with the IRS, other than institutions of higher education; Independent school districts; For profit organizations other than small businesses; Public housing authorities/Indian housing authorities; Private institutions of higher education; Nonprofits having a 501(c)(3) status with the IRS, other than institutions of higher education; Small businesses; Public and State controlled institutions of higher education

**CFDA Number:** 93.310 -- Trans-NIH Research Support 81.121 -- Nuclear Energy Research, Development and Demonstration

**Funding Opportunity Number:** RFA-RM-14-008

The purpose of this FOA is to support projects to develop tools and strategies for studying: 1. the three dimensional architecture of the nucleus in relationship to the topography of nuclear bodies and transcriptional machineries, 2. the structure and function of poorly characterized nuclear structures, or 3. the role of specialized proteins and RNAs in the assembly, organization, and function of nuclear bodies, nuclear structures, and specialized subnuclear domains.

**For more information, go to:** <http://grants.nih.gov/grants/guide/rfa-files/RFA-RM-14-008.html>

## **ROSES 2014: Climate Indicators and Data Products for Future National Climate Assessments**

**Granting Agency:** NASA Headquarters

**Current Closing Date for Applications:** Feb 2, 2015

**Eligibility:** Proposers must be affiliated with an institution at [nspires.nasaprs.com/](http://nspires.nasaprs.com/) and, in general, NASA provides funding only to US institutions. Organizations outside the U.S. that propose on the basis of a policy of no-exchange-of-funds; consult Appendix B Section (I) of the guidebook for proposers (<http://www.hq.nasa.gov/office/procurement/nraguidebook/>) for specific details. Some NRAs may be issued jointly with a non-U.S. organization, e.g., those concerning guest observing programs for jointly sponsored space science programs, that will contain additional special guidelines for non-U.S. participants. Also ref. Sections 2.3.10(c)(vii) of the guidebook for proposers for special instructions for proposals from non-U.S. organizations that involve U.S. personnel for whom NASA support is requested.

**CFDA Number:** 43.001 -- Science

**Funding Opportunity Number:** NNH14ZDA001N-INCA

This ROSES-2014 NRA (NNH14ZDA001N) solicits basic and applied research in support of NASA's Science Mission Directorate (SMD). This NRA covers all aspects of basic and applied supporting research and technology in space and Earth sciences, including, but not limited to: theory, modeling, and analysis of SMD science data; aircraft, scientific balloon, sounding rocket, International Space Station, CubeSat, and suborbital reusable launch vehicle investigations; development of experiment techniques suitable for future SMD space missions; development of concepts for future SMD space missions; development of advanced technologies relevant to SMD missions; development of techniques for and the laboratory analysis of both extraterrestrial samples returned by spacecraft, as well as terrestrial samples that support or otherwise help verify observations from SMD Earth system science missions; determination of atomic and composition parameters needed to analyze space data, as well as returned samples from the Earth

or space; Earth surface observations and field campaigns that support SMD science missions; development of integrated Earth system models; development of systems for applying Earth science research data to societal needs; and development of applied information systems applicable to SMD objectives and data. **For more information, go to:**  
<http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId=%7B5924CEB3-4EB7-FEF1-C85B-DD5745C1331C%7D&path=open>

## **FY15 Consolidated Innovative Nuclear Research**

**Granting Agency:** Idaho Field Office

**Current Closing Date for Applications:** Feb 17, 2015

**Expected Number of Awards:** 65

**Estimated Total Program Funding:** \$5,000,000

**Eligibility** Private institutions of higher education; Small businesses; Public and State controlled institutions of higher education; This FOA is open to U.S. universities, national laboratories, and industry. Research consortiums may be composed of diverse institutions including academia, national laboratories, non-profit research institutes, industry/utilities, and international partners. Research teams should strive to achieve the synergies that arise when individuals with forefront expertise in different methodologies, technologies, disciplines, and areas of content knowledge approach a problem together, overcoming impasses by considering the issue from fresh angles and discovering novel solutions. DOE-NE strongly encourages diversifying its research portfolio through effective partnerships with industry, underrepresented groups, and MSI, which may receive funding support from the project. International partners are encouraged to participate, however no U.S. government funding will be provided to entities incorporated outside of the U.S. DOE-NE will evaluate any such proposed partnerships as part of its program relevancy evaluation and scoring. The following link provides the current list of MSI: <http://www.ed.gov/about/offices/list/ocr/edlite-minorityinst.html>. No more than 20 percent of the total funds provided by the government to a university (excluding NEET CTD) can go to a non-university collaborator. See eligibility requirements in the body of the FOA document to be sure you can apply.

**CFDA Number:** 81.121 -- Nuclear Energy Research, Development and Demonstration

**Funding Opportunity Number:** DE-FOA-0001129

The Department of Energy's (DOE) Office of Nuclear Energy (NE) conducts crosscutting nuclear energy research and development (R&D) and associated infrastructure support activities to develop innovative technologies that offer the promise of dramatically improved performance for advanced reactors and fuel cycle concepts while maximizing the impact of DOE resources. NE strives to promote integrated and collaborative research conducted by national laboratory, university, industry, and international partners under the direction of NE's programs. NE funds research activities through both competitive and direct mechanisms, as required to best meet the needs of NE. This approach ensures a balanced R&D portfolio and encourages new nuclear power deployment with creative solutions to the universe of nuclear energy challenges. This FOA addresses the competitive portion of NE's R&D portfolio as executed through the Nuclear Energy University Programs (NEUP), Nuclear Energy Enabling Technologies Crosscutting Technology Development (NEET CTD), and Advanced Test Reactor National Scientific User

Facility (ATR NSUF). NEUP utilizes up to 20 percent of funds appropriated to NE's R&D program for university-based infrastructure support and R&D in key NE program-related areas: Fuel Cycle Research and Development (FC R&D), Reactor Concepts Research, Development and Demonstration (RC RD&D), and Nuclear Energy Advanced Modeling and Simulation (NEAMS). NEET CTD supports national laboratory-, university- and industry-led crosscutting research. By establishing the NSUF in 2007, DOE-NE opened up the world of material test reactors, beam lines, and post-irradiation examination facilities to researchers from U.S. universities, industry and national laboratories by granting no-cost access to world-class nuclear research facilities. In addition to the consolidation of the NSUF Call for Applications (CFA) for access to capabilities, NEUP or NEET CTD projects requiring irradiation testing and/or post irradiation examination (PIE) may include no-cost access to NSUF capabilities through a single application response to this FOA. NE reserves the right to respond to potential shifts in R&D priorities during FY 2015 that may be driven by events, policy developments, or Congressional/budget direction. NE will factor such considerations into decisions related to the timing and scale of award announcements associated with this FOA.

## **Sustainable and Holistic Integration of Energy Storage and Solar PV (SHINES)**

**Granting Agency:** Golden Field Office

**Current Closing Date for Applications:** Mar 19, 2015

**Estimated Total Program Funding:** \$15,000,000

**Eligibility** Unrestricted

**CFDA Number:** 81.087 -- Renewable Energy Research and Development

**Funding Opportunity Number:** DE-FOA-0001108

The SunShot Initiative (SunShot) is a national collaborative effort to make solar energy cost-competitive with other forms of electricity by the end of the decade. The installed cost of solar photovoltaics (PV) has reduced significantly in recent years, spurring significant and accelerating deployment of PV systems. With the anticipated proliferation of solar power at the centralized and distributed scales, the variability and uncertainty of the solar resource poses challenges for reliably integrating photovoltaics (PV) with electric power systems, both at the distribution and bulk system levels. The goal of the Department of Energy, Energy Efficiency and Renewable Energy, SHINES Funding Opportunity is to enable the development and demonstration of integrated, scalable, and cost-effective technologies for solar that incorporates energy storage and works seamlessly to meet both consumer needs and the needs of the electricity grid. Such an integrated solution should utilize smart inverters, and be capable of working with smart buildings, smart appliances, and utility communication and control systems. The solutions thus developed will enable widespread sustainable deployment of low-cost, flexible, and reliable PV generation, and provide for successful integration of PV power plants with the electric grid. **For more information, go to:** <https://eere-exchange.energy.gov/default.aspx#FoaId266730f7-8882-43a5-aa86-dd215373ea22>

# **Grants Opportunities: Environment (8)**

## **Dec. 2014 - March 2015**

### **Rhinoceros and Tiger Conservation Fund FY15**

**Granting Agency:** Fish and Wildlife Service

**Expected Number of Awards:** 40

**Eligibility:** Any foreign government agency responsible for the conservation and protection of rhinoceroses and/or tigers and any other organization, multi-national secretariat, public or private university, or individual with demonstrated experience in rhinoceros and/or tiger conservation may submit proposals to this Fund. U.S. non-profit, non-governmental organizations must submit documentary evidence of their Section 501(c)(3) non-profit status

**Estimated Total Program Funding:** \$2,340,000

**CFDA Number:** 15.619 -- Rhinoceros and Tiger Conservation Fund

**Funding Opportunity Number:** F14AS00442

The Rhinoceros and Tiger Conservation Fund is soliciting proposals for the conservation of rhinoceroses and/or tigers throughout their ranges. The Rhinoceros and Tiger Conservation Act was passed in 1994 to provide financial resources for conservation of rhinoceros and tiger populations. The Rhinoceros and Tiger Conservation Fund supports projects that promote conservation through: Enhanced protection of at-risk rhinoceros and tiger populations; Protected area/reserve management in important rhinoceros and tiger range; Veterinary care for wild populations; Habitat conservation and management; Reintroduction to former range; Restoration of habitat; Wildlife inspection, law enforcement, and forensics skills; Conservation education and community outreach; Efforts to decrease human-rhinoceros and human-tiger conflicts; Strengthening local capacity to implement conservation programs; Transfrontier rhinoceros and tiger conservation; Applied research on rhinoceros and tiger populations and their habitats, including surveys and monitoring; Development and execution of rhinoceros and tiger conservation management plans; and Compliance with applicable treaties and laws that prohibit or regulate the taking or trade of rhinoceros and tigers or regulate the use and management of their habitat; Reducing demand for illegal rhino and tiger parts, products and live animals in consumer countries; Combatting trafficking of illegal rhino and tiger parts, products and live animals. Proposed project work should occur within the rhinoceros or tiger range, or, if work is to be conducted outside of the range, the proposal should show clear relevance to rhinoceros or tiger conservation. If the project includes research, the applicant must provide a convincing argument that the research addresses priority threats and that the results are likely to result in management actions. **For more information, go to:** <http://www.fws.gov/international/grants-and-reporting/how-to-apply.html>

### **Great Ape Conservation Fund**

**Granting Agency:** Fish and Wildlife Service

**Current Closing Date for Applications:** Dec 3, 2014

**Expected Number of Awards:** 37

**Eligibility:** Applicants can be individuals; multi-national secretariats; state and local government agencies; non-profit, non-governmental organizations; and public and private institutions of higher education. U.S. non-profit, non-governmental organizations must submit documentary evidence of their Section 501(c)(3) non-profit status.

**Estimated Total Program Funding:** \$1,875,000

**CFDA Number:** 15.629 -- Great Apes Conservation Fund

**Funding Opportunity Number:** F14AS00447

**Paragraph-long description:** The Great Ape Conservation Fund is soliciting project proposals for the conservation of apes [gorillas (*Gorilla gorilla*); chimpanzees (*Pan troglodytes*); bonobos (*Pan paniscus*); orangutans (*Pongo spp.*); and gibbons (family *Hylobatidae*)] throughout their ranges. The U.S. Government enacted the Great Ape Conservation Act of 2000 in response to the decline of ape populations in Africa and Asia. The Act provides for the conservation and protection of apes by supporting conservation programs of countries within the range of apes, and the projects of persons with demonstrated expertise in the conservation of apes.

**For more information, go to:** <http://www.fws.gov/international/grants-and-reporting/how-to-apply.html>

## **African Elephant Conservation Fund**

**Granting Agency:** Fish and Wildlife Service

**Current Closing Date for Applications:** Dec 3, 2014

**Expected Number of Awards:** 25

**Eligibility:** Unrestricted

**Estimated Total Program Funding:** \$1,480,000

**CFDA Number:** 15.620 -- African Elephant Conservation Fund

**Funding Opportunity Number:** F15AS00001

The African Elephant Conservation Fund is accepting project proposals for the conservation of the African elephant (*Loxodonta africana spp.*). In 1988, Congress passed the African Elephant Conservation Act in response to the alarming decline of African elephant populations. The Act provides for the establishment of the African Elephant Conservation Fund to provide financial assistance to support projects that will enhance sustainable conservation programs to ensure effective, long-term conservation of African elephants. **For more information, go to:**

<http://www.fws.gov/international/grants-and-reporting/how-to-apply.html>

## **Center for Sponsored Coastal Ocean Research, Fiscal Year 2015 National Competitive HAB Programs**

**Granting Agency:** Department of Commerce

**Current Closing Date for Applications:** Dec 15, 2014

**Expected Number of Awards:** 8

**Eligibility:** Public and State controlled institutions of higher education, Small businesses, Nonprofits having a 501(c)(3) status with the IRS, other than institutions of higher education,

Nonprofits that do not have a 501(c)(3) status with the IRS, other than institutions of higher education, For profit organizations other than small businesses

**Estimated Total Program Funding:** \$2,000,000

**CFDA Number:** 1 1.478 -- Center for Sponsored Coastal Ocean Research Coastal Ocean Program

**Funding Opportunity Number:** NOAA-NOS-NCCOS-2015-2004202

The purpose of this document is to advise the public that NOAA/NOS/NCCOS/CSCOR is soliciting proposals for the Ecology and Oceanography of Harmful Algal Blooms Program, the Monitoring and Event Response for Harmful Algal Blooms Program and the Prevention, Control and Mitigation of Harmful Algal Blooms Program. Funding is contingent upon the availability of Fiscal Year 2015 Federal appropriations. It is anticipated that projects funded under this announcement will have a September 1, 2015 start date. Total funding for this research: It is anticipated that up to \$2,000,000 may be available in FY 15 for the first year of all HAB projects combined. Awards are expected to last 2 to 5 years. Approximately 6 to 8 projects are expected to be funded at the level of approximately \$100,000. to \$600,000. per year per proposal.

Background information about the NCCOS/CSCOR efforts can be found at

<http://coastalscience.noaa.gov/about/centers/cscor>. **For more information, go to:** Quay Dortch, HAB Program Manager, Phone: 301-713-3338 extension 157

## **Tropical Forest Alliance (TFA) 2020 in Central and South America**

**Granting Agency:** Agency for International Development

**Current Closing Date for Applications:** Dec 15, 2014

**Expected Number of Awards:**

**Eligibility:** For profit organizations other than small businesses, Nonprofits having a 501(c)(3) status with the IRS, other than institutions of higher education

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

**CFDA Number:** 98.001 -- USAID Foreign Assistance for Programs Overseas

**Funding Opportunity Number:** RFA-OAA-14-000043

Through this Addendum to the FY2014 Global Development Alliance (GDA) Annual Program Statement (APS) No. APS-OAA-14-000001 (the GDA APS), USAID is making a special call for the submission of Concept Papers focused on the Tropical Forest Alliance (TFA) 2020 in the Latin America region. USAID is seeking to engage with interested parties to develop initiatives that can mobilize expertise, talent, funding, and other resources from both USAID and the private sector to invest in sustainable business practices that reduce tropical deforestation related to key agricultural commodities (including palm oil, soy, beef, and pulp and paper) by 2020.

**For more information, go to:** <http://www.grants.gov/web/grants/search-grants.html?keywords=APS-OAA-14-000001>

## **Environmental Justice Small Grants Program - Application Guidance FY2015**

**Granting Agency:** Environmental Protection Agency

**Current Closing Date for Applications:** Dec 15, 2014 Please refer to the announcement, including Section IV, for additional information on submission methods and due dates.

**Expected Number of Awards:** 40

**Eligibility:** See Section III of the announcement for additional eligibility information.

**Estimated Total Program Funding:** \$1,200,000

**CFDA Number:** 66.604 -- Environmental Justice Small Grant Program

**Funding Opportunity Number:** EPA-OECA-OEJ-15-01

The Environmental Justice Small Grants (EJSG) Program provides funding for eligible applicants for projects that address local environmental and public health issues within an affected community. The EJSG Program is designed to help communities understand and address exposure to multiple environmental harms and risks. The long-term goals of the EJSG Program are to help build the capacity of communities with environmental justice concerns and to create self-sustaining, community-based partnerships that will continue to improve local environments in the future. The fiscal year 2015 program will consider proposals supporting community-based preparedness and resilience efforts (community climate resiliency). The goal is to recognize the critical role of localized efforts in helping communities shape climate change strategies to avoid, lessen, or delay the risks and impacts associated with climate change. An overarching goal of including this emphasis is to help bolster the efforts of underrepresented communities to address climate change vulnerabilities and develop solutions. **For more information, go to:** <http://www.epa.gov/environmentaljustice/resources/publications/grants/ej-smgrants-rfp-2015.pdf>

## **12th Annual P3 Awards: A National Student Design Competition for Sustainability Focusing on People, Prosperity and the Planet - Built Environment**

**Granting Agency:** Environmental Protection Agency

**Current Closing Date for Applications:** Dec 16, 2014 Please refer to the full announcement, including Section IV, for additional information on submission methods and due dates.

**Expected Number of Awards:** 41

**Eligibility:** See Section III of the announcement for additional eligibility information."

**Estimated Total Program Funding:** \$975,000

**CFDA Number:** 66.516 -- P3 Award: National Student Design Competition for Sustainability

**Funding Opportunity Number:** EPA-G2015-P3-Q2

The U.S. Environmental Protection Agency (EPA), as part of the P3-People, Prosperity and the Planet Award Program, is seeking applications proposing to research, develop, and design solutions to real world challenges involving the overall sustainability of human society. The P3 competition highlights the use of scientific principles in creating innovative projects focused on sustainability. The P3 Award program was developed to foster progress toward sustainability by achieving the mutual goals of improved quality of life, economic prosperity and protection of the planet -- people, prosperity, and the planet – the three pillars of sustainability. The EPA offers

the P3 competition in order to respond to the technical needs of the world while moving towards the goal of sustainability. Please see the P3 website for more details about this program.

**For more information, go to:** <http://www.epa.gov/ncer/rfa/2015/2015-p3.html>

## **Earth Sciences: Instrumentation and Facilities**

**Granting Agency:** National Science Foundation

**Current Closing Date:** Proposals for Acquisition or Upgrade of Research Equipment and proposals for the Development of New Instrumentation, Analytical Techniques or Software, Support of National or Regional Multi-User Facilities and Support for Early Career Investigators will be accepted at any time.

**Expected Number of Awards:** 50

**Eligibility:** Unrestricted (i.e., open to any type of entity above), subject to any clarification in text field entitled "Additional Information on Eligibility"

**Estimated Total Program Funding:** \$7,000,000

**CFDA Number:** 47.050

**Funding Opportunity Number:** 11-544

**Paragraph-long description:** The Instrumentation and Facilities Program in the Division of Earth Sciences (EAR/IF) supports meritorious requests for infrastructure that promotes research and education in areas supported by the Division (see <http://www.nsf.gov/div/index.jsp?div=EAR>). EAR/IF will consider proposals for: 1) Acquisition or Upgrade of Research Equipment that will advance laboratory and field investigations, and student research training opportunities in the Earth sciences. The maximum request is \$1,000,000. The maximum request for upgrade of research group computing facilities is \$75,000; 2) Development of New Instrumentation, Analytical Techniques or Software that will extend current research and research training capabilities in the Earth sciences. The maximum request is \$1,000,000; 3) Support of National or Regional Multi-User Facilities that will make complex and expensive instruments or systems of instruments broadly available to the Earth sciences research and student communities; 4) Support for Early Career Investigators to facilitate expedient operation of new research infrastructure proposed by the next generation of leaders in the Earth Sciences. This opportunity allows for submission of a proposal for Acquisition or Upgrade of Research Equipment that includes budget line items associated with support of a new full-time technician who will be dedicated to manage the instrument(s) being requested. Any request for technical support under this opportunity is limited to three years duration. The maximum request is \$1,000,000. Planned research uses of requested instruments, software, and facilities must include basic research on Earth processes SUPPORTED BY THE DIVISION OF EARTH SCIENCES. Support is available through grants or cooperative agreements awarded in response to investigator-initiated proposals. Human resource development and education are expected to be an integral part of all proposals submitted to EAR/IF. Efforts to support participation of underrepresented groups in laboratory and/or field instrument use and training are encouraged. All proposers to EAR/IF are invited to consider Support of Outreach and/or Broadening Participation Activities. Proposals submitted to the EAR/IF Program may request up to \$20,000 for such activities (please refer to Sections V.A Proposal Preparation Instructions and V.B Budgetary Information). Proposals requesting equipment, infrastructure or personnel that

will also serve disciplines outside the Earth sciences may be jointly reviewed with other programs within the Foundation. EAR/IF will consider co-funding of projects with other NSF programs and other agencies.

**For more information, go to:**

[http://www.nsf.gov/publications/pub\\_summ.jsp?ods\\_key=nsf11544](http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf11544)