

Grants Opportunities: Energy & Environment (16), April-June 2014

Microgrid Research, Development, and System Design

Granting Agency: National Energy Technology Laboratory — Department of Energy

Current Closing Date for Applications: 04/28/14

Expected Number of Awards: 6

Eligibility: Unrestricted

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

CFDA Number: 81.122

Funding Opportunity Number: DE-FOA-0000997

The objective of this Funding Opportunity Announcement (FOA) is to solicit applications for financial assistance awards to enable microgrid development. This FOA is responsive to addressing high-priority research, development and demonstration activities, identified jointly with key stakeholders, to overcome key challenges facing broad adoption of microgrids for key commercial applications. **For more information, go to:**

<https://www.fedconnect.net/FedConnect/Default.htm>

Integrated Enhanced Geothermal Systems (EGS) Research and Development

Granting Agency: Golden Field Office — Department of Energy

Current Closing Date for Applications: 04/30/14

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

CFDA Number: 81.087

Funding Opportunity Number: DE-FOA-0000842

Through this Funding Opportunity Announcement (FOA), the Geothermal Technologies Office's (GTO) Enhanced Geothermal Systems (EGS) Subprogram seeks to advance subsurface characterization via an integrated technical approach to EGS R&D. GTO encourages the community to integrate technologies to address the challenges associated with quantifying reservoir complexity. GTO is interested in increasing the precision and accuracy of directly measured parameters and improving the ability to constrain calculated or inferred reservoir properties from these direct measurements. Critical parameters that GTO is interested in constraining include, but are not limited to: matrix to fracture heat transfer area; fluid mean residence time; in-situ stresses; fracture spacing; fracture aperture distribution; porosity; and reservoir volume. GTO seeks research projects that will facilitate a better understanding of

physicochemical conditions to optimize subsurface engineering and stimulation methods, as well as assess and better understand the evolution and sustainability of a reservoir during long-term operations. **For more information, go to:** <https://eere-exchange.energy.gov/>

Low Temperature Geothermal Mineral Recovery Program

Granting Agency: Golden Field Office — Department of Energy

Current Closing Date for Applications: 05/02/14

Expected Number of Awards: 8

Eligibility: Unrestricted

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

CFDA Number: 81.087

Funding Opportunity Number: DE-FOA-0001016

As demand grows in this burgeoning market, a reliable supply of critical materials for advanced manufacturing technologies is a growing concern. This program aims to help alleviate this type of supply bottleneck. The Energy Department seeks up to ten 1-2 year feasibility and/or applied R&D projects that will lead to commercialized technologies. Geothermal mining of rare earth and near-critical metals are the focus of this research, with the intent to effectively lower the cost of geothermal energy production while diversifying and stabilizing the supply of critical materials for domestic industries. **For more information, go to:** <https://eere-exchange.energy.gov/>

Scientific Discovery through Advanced Computing (SciDAC): Multiscale Integrated Modeling for Fusion Energy Science

Granting Agency: Office of Science — Department of Energy - Office of Science

Current Closing Date for Applications: 05/02/14

Eligibility: Unrestricted

CFDA Number: 81.049

Funding Opportunity Number: DE-FOA-0001096

The Office of Fusion Energy Sciences (FES) and the Office of Advanced Scientific Computing Research (ASCR), Office of Science, U.S. Department of Energy (DOE), announce their interest in receiving applications from collaborative groups of investigators for developing an integrated simulation capability for fusion energy science. More specifically, applications are solicited for the development of advanced multiphysics and multiscale integrated simulation capabilities for magnetically confined plasmas addressing problems of direct relevance to burning plasma science and ITER. While developing a full Whole Device Modeling (WDM) simulation capability is beyond the scope of this FOA, this is intended to be a first step toward this goal. Responsive applications are expected to integrate the most critical physical processes across all relevant regions and on all relevant temporal and spatial scales, using an appropriately justified

combination of first principles models and high physics fidelity reduced models. Simulation codes should be able to exploit the massive concurrency of the SC leadership class computing facilities and not merely their high capacity. **For more information, go to:**

<https://www.fedconnect.net/FedConnect/Default.htm>

Administration of the Wave Energy Converter Prize

Granting Agency: Golden Field Office — Department of Energy

Current Closing Date for Applications: May 14, 2014

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:

CFDA Number: 81.087 -- Renewable Energy Research and Development

Funding Opportunity Number: DE-FOA-0000979

The Water Power Program is seeking a Prize Administrator with expertise in prize competitions to collaborate with DOE, technical experts, and a wave tank testing facility in developing and implementing the Wave Energy Converter (WEC) Prize. The WEC Prize competition aims to attract innovative ideas from developers new to the industry and next generation ideas from existing developers by offering a monetary prize purse and providing an opportunity for tank testing and evaluation of scaled WEC prototypes. The Program envisions that this competition will achieve game-changing performance enhancements to WEC devices, establishing a pathway to sweeping cost reductions at a commercial scale. Administration of the WEC Prize will include: prize development, implementation of the WEC Prize competition stages (e.g. design, build, and test and evaluation), and post-competition publicity and evaluation of impact of the WEC Prize. The full Funding Opportunity Announcement (FOA) is posted on the EERE eXCHANGE website at <https://eere-exchange.energy.gov>. Concept papers and 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 EERE eXCHANGE can be found on the website <https://eere-exchange.energy.gov/Manuals.aspx> after logging into 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.

For more information, go to:

<https://eere-exchange.energy.gov/>

COMMERCIAL BUILDING TECHNOLOGY DEMONSTRATIONS

Granting Agency: Golden Field Office — Department of Energy

Current Closing Date for Applications: May 19, 2014

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

Estimated Total Program Funding:

CFDA Number: 81.086 -- Conservation Research and Development

Funding Opportunity Number: DE-FOA-0001084

Advanced building technologies and systems can contribute to the cost-effective delivery of new buildings and retrofits that significantly lower building energy consumption. DOE seeks to fund demonstration and deployment activities for technologies that are ready for market adoption but that may be underutilized due to market barriers including perception of risk, gaps in information and data on performance as well as cost. These technologies will offer a high degree of differentiation between current industry solutions, be widely replicable across the building size, sector and application and provide significant energy savings potential (as determined by market opportunity, site savings, and total potential savings at 100% penetration). Funding through this opportunity will enhance and accelerate the deployment and adoption of a broad range of competitively-solicited high impact energy saving technologies as well as new technology integration approaches. The technical and/or non-technical products of this funding should be deployed for scale up as a part of the award agreement and will enable investment-level decision-making by building owners, investors and operators in order to produce energy savings.

For more information, go to:

<https://eere-exchange.energy.gov/>

Environmental Stewardship for Renewable Energy Technologies: MHK Environmental and Resource Characterization Instrumentation

Granting Agency: Golden Field Office — Department of Energy

Current Closing Date for Applications: Mar 22, 2014

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:

CFDA Number: 81.087 -- Renewable Energy Research and Development

Funding Opportunity Number: DE-FOA-0000971

This FOA will support the development of instrumentation, associated signal processing algorithms or software, and integration of instrumentation packages for monitoring the environmental impacts of marine and hydrokinetic technologies. It will also support the development and testing of sensors, instrumentation, or processing techniques to collect physical data on ocean waves (e.g., height, period, directionality, steepness). 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 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.

For more information, go to:

<https://eere-exchange.energy.gov/>

2015 National Urban and Community Forestry Challenge Cost Share Grant Program

Granting Agency: Forest Service — Department of Agriculture

Current Closing Date for Applications: May 15, 2014

Eligibility: Public housing authorities/Indian housing authorities Nonprofits having a 501(c)(3) status with the IRS, other than institutions of higher education Private institutions of higher education Public and State controlled institutions of higher education Nonprofits that do not have a 501(c)(3) status with the IRS, other than institutions of higher education

Estimated Total Program Funding: \$900,000

CFDA Number: 10.675 -- Urban and Community Forestry Program

Funding Opportunity Number: USDA-FS-UCF-01-2015

2015 Forest Service National Urban and Community Forestry Challenge Cost Share Grant

Deadline: May 15, 2014 The Secretary of Agriculture has a congressionally designated advisory council that assists the U.S. Forest Service in establishing the grant categories and recommendations of final proposals for the Forest Service to consider. This is the National Urban and Community Forestry Advisory Council (NUCFAC). The Council serves to advise the Secretary of Agriculture on the status of the nation's urban and community forests and related natural resources. The NUCFAC seeks to establish sustainable urban and community forests, by encouraging communities of all sizes to manage and protect their natural resources, which, if well managed, improves the public's health, well-being, economic vitality, and creates resilient ecosystems for present and future generations. The Council recommends urban and community forestry projects that have national or multi-state application and impact through the U.S. Forest Service's competitive Urban and Community Forestry Challenge Cost Share Grant Program.

For more information, go to:

<http://www.fs.fed.us/ucf/nucfac.shtml>

Data Management

Granting Agency: National Park Service

Current Closing Date for Applications: Supplement Accepted Anytime

Expected Number of Awards: 1

Eligibility: Youth Organization

Estimated Total Project Funding: \$91,520

CFDA Number: 15.931

Funding Opportunity Number: PD-09-5761

The objective of this project is to participate collaboratively in data management and other conservation activities to document and archive information related to much on-going and new resource management projects. The interns will gain experience in planning and environmental assessments, NEPA, FLPMA, GIS, data entry, data archiving, report writing and other position-related skills, using ArcView, Microsoft Office Suite, and other software. In addition, they will actively participate in conservation project implementation in order to better understand project documentation and data management.

FY 2014 Request for Proposals for the Pollution Prevention Information Network (PPIN) Grant Program

Granting Agency: Environmental Protection Agency

Current Closing Date for Applications: 04/15/14

Expected Number of Awards: 8

Eligibility: Others

Estimated Total Program Funding: \$700,000

CFDA Number: 66.708

Funding Opportunity Number: EPA-HQ-OPPT-2014-003

The Pollution Prevention Information Network (PPIN) grant program funds regional centers that serve both regional and national pollution prevention (P2) information needs. Grantees determine audience needs and then supply quality information and training on source reduction and related P2 practices. Grantees provide assistance and training to businesses whose lack of information may be an impediment to implementing source reduction, preventing pollution or adopting sustainable practices. **For more information, go to:**

<http://www.epa.gov/p2/pubs/grants/ppin/ppin14.pdf>

FISCAL YEAR (FY) 14 BROWNFIELDS TRAINING, RESEARCH, AND TECHNICAL ASSISTANCE GRANTS GUIDELINES

Granting Agency: Environmental Protection Agency

Current Closing Date for Applications: 04/18/14

Expected Number of Awards: 4

Eligibility: Others

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

CFDA Number: 66.814

Funding Opportunity Number: EPA-OSWER-OBLR-14-02

This notice announces the availability of funds and solicits proposals from eligible entities, including nonprofit organizations, to conduct research, or provide technical assistance to communities facing brownfields cleanup and revitalization challenges. Focus areas of this announcement include: 1) technical assistance to environmental workforce development and job training grantees, 2) technical assistance on the integration of environmental justice and equitable development for brownfields-impacted communities, 3) research on the benefits of brownfields redevelopment, and 4) technical assistance on brownfields financing and economic development strategies to brownfields-impacted communities. **For more information, go to:** <http://www.epa.gov/oswer/docs/grants/epa-oswer-oblr-14-02.pdf>

National Indoor Environments Program: Reducing Public Exposure to Indoor Pollutants

Granting Agency: Environmental Protection Agency

Current Closing Date for Applications: 04/21/14

Expected Number of Awards: 20

Eligibility: Others

Estimated Total Program Funding: \$12,000,000

CFDA Number: 66.034

Funding Opportunity Number: EPA-OAR-ORIA-14-03

This notice announces the availability of funds and solicits applications from eligible entities for demonstration, training, outreach and/or education cooperative agreements that will have a national scale impact to reduce exposure to indoor air contaminants and yield measurable environmental outcomes. **For more information, go to:** www.epa.gov/air/grants_funding.html

ROSES 2013: Earth Science Applications: WATER RESOURCES

Granting Agency: NASA Headquarters — National Aeronautics and Space Administration

Current Closing Date for Applications: 04/30/14

Eligibility: Others, Proposers must be affiliated with an institution at 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.

CFDA Number: 43.001

Funding Opportunity Number: NNH13ZDA001N-WATER

This NASA Research Announcement (NRA) solicits proposals for supporting basic and applied research and technology across a broad range of Earth and space science program elements relevant to one or more of the following NASA Research Programs: Earth Science, Heliophysics, Planetary Science, and Astrophysics. This ROSES 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, stratospheric balloon, suborbital rocket, and commercial reusable rocket 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={01BFD3EE-87EF-FC55-1F52-EB37A9F139F0}&path=open>

2014 BREP

Granting Agency: Department of Commerce

Current Closing Date for Applications: 04/30/14

Expected Number of Awards: 10

Eligibility: Individuals (U.S. citizens); institutions of higher education; other nonprofits; commercial organizations

CFDA Number: 11.472

Funding Opportunity Number: NOAA-NMFS-FHQ-2014-2004007

The mission of the National Bycatch Reduction Engineering Program (BREP) is to develop technological solutions and investigate changes in fishing practices designed to minimize bycatch of fish (including sponges, deep-sea corals, and shallow (tropical) corals) and protected species (including marine mammals, sturgeon, seabirds, and sea turtles) as well as minimize bycatch injury and mortality (including post-release injury and mortality). For FY2014, NMFS anticipates that approximately \$2,500,000 could be made available for projects that address bycatch research as identified in the Program Priority Section (I.B.1 - I.B.3).

WY Conservation Innovation Program

Granting Agency: California State Office — Department of Agriculture

Eligibility: Nonprofits having a 501(c)(3) status with the IRS, other than institutions of higher education, Individuals

Estimated Total Program Funding: \$150,000

CFDA Number: 10.912

Funding Opportunity Number: USDA-NRCS-WY-14-0001

Paragraph-long description: DEPARTMENT OF AGRICULTURE AGENCY: Natural Resources Conservation Service, Commodity Credit Corporation ACTION: NOTICE Conservation Innovation Grants Fiscal Year (FY) 2014 Announcement for Program Funding- Wyoming Catalog of Federal Domestic Assistance (CFDA) Number: 10.912 SUMMARY: The Natural Resources Conservation Service (NRCS), an agency under the United States Department of Agriculture (USDA), is announcing availability of Conservation Innovation Grants (CIG) to stimulate the development and adoption of innovative conservation approaches and technologies. Applications will be accepted from Wyoming. NRCS anticipates that the amount available for support of this program in FY 2014 will be up to \$150,000. The maximum award amount for any project will not exceed \$75,000 in FY 2014. Applications are requested from eligible governmental or non-governmental organizations or individuals for competitive consideration of grant awards for projects between one and three years in duration. Funds will be awarded through a two-phase statewide competitive grants process that will include (1) a pre-proposal process and (2) a full proposal process. The full proposal process will only be open to applicants whose pre-proposal applications are selected by NRCS. Both phases are described in this announcement, but only pre-proposals are being solicited at this time.

Federal Lands Transportation Program

Granting Agency: National Park Service — Department of the Interior

Current Closing Date for Applications: 05/05/14

Expected Number of Awards: 1

Eligibility: Nonprofits having a 501(c)(3) status with the IRS, other than institutions of higher education

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

CFDA Number: 15.945

Funding Opportunity Number: P14AS00030

Paragraph-long description:

The purpose is to establish a Cooperative Agreement with a non-profit organization to substantially support the NPS efforts to deliver a robust program, move towards a multi-modal approach to transportation, and to closely coordinate and cooperate with state and local governments and other federal land management agencies.