# Grant Quick Reference

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= New announcement this week
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DOC Hydrologic Research

DOE Regional and Global Climate Modeling Program: Modes of Low Frequency Variability in a Changing Climate

The Office of Biological and Environmental Research (BER) of the Office of Science (SC), U.S. Department of Energy (DOE), hereby announces its interest in receiving
applications for research grants on the topic of Modes of Low Frequency Variability in a Changing Climate under the Regional and Global Climate Modeling (RGCM) program. Simulation of global and large-scale features of climate change has improved considerably over the past decade; nevertheless climate and earth system models do not yet accurately simulate major modes of low frequency climate variability, e.g., the Pacific Decadal Variability (PDV), Atlantic Multidecadal Oscillation (AMO), and the North Atlantic Oscillation. How natural climate variability interacts and modulates future climate change is a topic of intense debate in the research community.

High risk, high pay-off research ideas that explore innovative new directions that further the understanding of the modes of low frequency variability are encouraged; they should clearly describe how the proposed ideas have the potential to lead to breakthroughs in modeling of climate at global and regional scales. The BER strategy for basic research in climate science is described in a recent strategic plan [1](http://www.sc.doe.gov/ober/Climate%20Strategic%20Plan.pdf). BER encourages potential applicants to review this plan to familiarize themselves with the program and its strategic goals.

**Due Date: Pre-Application: 3/1/10; Application: 4/12/10**
**Award: $150,000-250,000**
**Agency: DOE, OSC, USGS**
**Program: Regional and Global Climate Modeling Program**
**Contact: Dr. Renu Joseph (Renu.Joseph@science.doe.gov) (301-903-9237)**
**Website: [http://www.sc.doe.gov/grants/FOA-10-000242.html](http://www.sc.doe.gov/grants/FOA-10-000242.html)**

**NSF Energy for Sustainability Program**

The Energy for Sustainability 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 or bio-based resources that are abundant in the United States.

The most abundant and sustainable source of renewable energy is the sun. The Energy for Sustainability program emphasizes two themes which harness solar energy to make fuels and electrical power: biofuels, & bioenergy, and photovoltaic solar energy. In addition, this program also supports research in wind and wave energy, sustainable energy technology assessment, and fuel cells. Current interest areas in these sustainable energy technologies are highlighted below.

- **Biomass Conversion, Biofuels & Bioenergy**
- **Photovoltaic Solar Energy**
- **Wind and Wave Energy**
- **Energy Technology Assessment**
- **Fuel Cells**

The duration of unsolicited awards is typically three years. The average annual award size for the program is $100,000.

**Due Date: 3/3/10**

*Proposals for Conferences, Workshops, and Supplements may be submitted at any time, but must be discussed with the program director before submission.*
Award: $100,000  
Agency: NSF  
Program: Energy for Sustainability Program  
Contact: Gregory L. Rorrer (grorrer@nsf.gov)  
Website: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501026&org=NSF&sel_org=NSF&from=fund

USDA Agricultural Market and Economic Research  
To conduct cooperative economic research and analyses in support of the Office of the Chief Economist's responsibility to advise the Secretary of Agriculture on the economic implications of Department policies, programs, and proposed legislation. These research projects and analyses cover the nation's agricultural commodity markets; risk analyses and cost-benefit analyses related to international food and agriculture; sustainable development; energy issues related to the agricultural economy; agricultural labor; global climate change; and any other topics that support the Department's consideration or review of policies and programs.  
Due Date: Ongoing  
Award: $245,000  
Agency: USDA  
Program: Agricultural Market and Economic Research  
Contact: Department of Agriculture Information Officer (202-720-5447)  
Website: http://www.federalgrantswire.com/agricultural-market-and-economic-research.html or https://www.cfda.gov/index?s=program&mode=form&tab=step1&id=f19c5dda50d6372c405ecb5cb35258fa

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DOE Financial Assistance Program  
The Office of Science of the Department of Energy hereby announces its continuing interest in receiving grant applications for support of work in the following program areas: Advanced Scientific Computing, Biological and Environmental Research, Basic Energy Sciences, Fusion Energy Sciences, High Energy Physics, Nuclear Physics, and Workforce Development for Teachers and Scientists. On September 3, 1992, DOE published in the Federal Register the Office of Energy Research Financial Assistance Program (now called the Office of Science Financial Assistance Program), 10 CFR Part 605, Final Rule, which contained a solicitation for this program. Information about submission of applications, eligibility, limitations, evaluation and selection processes and other policies and procedures are specified in 10 CFR Part 605.  
Specific Areas of Interest:  
Advanced Scientific Computing Research  
Biological and Environmental Research (BER)  
The priority areas for BER include the following:  
- Use systems biology approaches to understand enzymatic, microbial, and plant interactions for the conversion of biomass into liquid transportation fuels.
Use advanced atmospheric measurements together with high-end computation and modeling to predict the impact of greenhouse gases on climate change.

Model and measure the fate and transport of contaminants in the subsurface environment at DOE sites to predict contaminant flows.

Develop new tools to explore the interface of biological and physical sciences.

The BER subprograms follow: Biological Systems Science, Climate and Environmental Sciences

Basic Energy Sciences (BES)
The priority areas for BES include the following:

- Create a new paradigm for the design of materials, especially those related to the efficient production, storage, transmission, and use of energy.
- Through observation and manipulation of matter at the atomic and molecular scales, achieve mastery of material syntheses and chemical transformations relevant to real-world energy systems.
- Understand and control fundamental interactions between matter and energy, especially at the nanoscale.
- Conceive, construct, and operate open-access scientific user facilities to probe materials at the limits of time, space, and energy resolution.
- The BES subprograms follow: Materials Sciences and Engineering; Chemical Sciences, Geosciences and Biosciences, Accelerator & Detector Research; Experimental Program to Stimulate Competitive Research

Fusion Energy Sciences (FES)
- The FES subprograms follow: Science & Facility Operations, Enabling R&D

High Energy Physics (HEP)
- The HEP subprograms follow: Medium Energy Nuclear Physics, Heavy Ion Nuclear Physics, Low Energy Nuclear Physics, Nuclear Theory, Isotope Development & Production for Research and Applications, Accelerator Research and Development for Current and Future Nuclear Physics Facilities

Workforce Development for Teachers and Scientists

Due Date: 9/30/10
Award: Total $400,000,000
Agency: DOE
Program: Financial Assistance Program
Contact:
Various Subprogram Contacts:
Climate & Environmental Sciences Subprogram Contact:
Dr. J. Michael Kuperberg (mike.kuperberg@science.doe.gov)
Dr. Wanda Ferrell (wanda.ferrell@science.doe.gov) (301-903-3281)
Chemical Sciences, Geosciences & Biosciences Contact: (301-903-2046)
Website: http://www.sc.doe.gov/grants/FOA-10-0000178.html

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NSF Catalysis and Biocatalysis Program
The Catalysis and Biocatalysis program primarily supports fundamental and innovative applied research on the following topics: Kinetics and mechanisms of important
catalyzed chemical reactions as they relate to the production of chemicals, fuels, and specialized materials. Characterization of chemical and biochemical phenomena occurring at or near solid surfaces and interfaces. Kinetic modeling and theory of heterogeneous, homogeneous, and biocatalysis. Fundamental catalytic or biocatalytic studies of the processes for conversion of biomass to fuels and chemicals. Synthesis of novel compositions and structures for use in heterogeneous, homogeneous or biocatalysts. Electrocatalytic processes having engineering significance or commercial potential, particularly for fuel cell applications. Fundamental aspects of reactive deposition and processing for thin film materials. This program promotes multidisciplinary research in all of the above areas. Typical research topics include: Catalytic conversion of biorenewables to fuels or chemicals. Environmentally beneficial chemical process alternatives. Ultra selective reactions and catalysts for fine chemicals, pharmaceuticals, and specialty chemical products. Catalyst design for reaction engineering of chemical, photo-, electro-, and bio-catalytic processes. Synthesis and characterization of novel catalytic structures for chemical conversions from the atomic through the nanoscale. Mechanisms and kinetics of reactions at solid surfaces and at interfaces (gas-solid, liquid-solid, including aqueous-solid). Ab initio and semiempirical kinetic theory and dynamic simulation of complex reactions. Utilization of new catalysts for producing nanomaterials. Utilization of catalytic materials in sensors, electronic devices, coatings; incorporation of components from the nano to micron scale. Materials and mechanisms in electrocatalysis and fuel cell applications. Proposals should address the novelty of the concept being proposed, compared to previous work in the field. Also, it is important to address why the novelty might be 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. The information requested in this paragraph should be included, as a minimum, in the Project Summary of each proposal. The duration of unsolicited awards is generally one to three years. The average annual award size for the program is $100,000. Small equipment proposals of less than $100,000 will also be considered and may be submitted during these windows. Any proposal received outside the announced dates will be returned without review. The duration of CAREER awards 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/pubs/2008/nsf08051/nsf08051.jsp. Proposals for Conferences, Workshops, and Supplements may be submitted at any time, but must be discussed with the program director before submission. Grants for Rapid Response Research (RAPID) and EARly-concept Grants for Exploratory Research (EAGER) replace the SGER program. Please note that proposals of these types must be discussed with the program director before submission.

Due Date: 03/03/10; Next date: 9/23/10
Award: $300,000
Agency: NSF
Program: Catalysis and Biocatalysis Program
Contact: George Antos (gantos@nsf.gov)
Website: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13360

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In broadest terms, the field of Environmental Engineering is concerned with understanding the impacts of human activities on the public health, natural environmental quality, and natural resources and with developing the scientific basis for identifying, analyzing, solving, mitigating, or managing environmental problems caused by human activities. The field emerged as a separate engineering discipline during the middle third of the 20th century in response to widespread public concern about water and air pollution and increasingly extensive environmental quality degradation. However, its roots extend back to early efforts in public health engineering in the late 19th century, and to ancient times with regard to urban drinking water systems.

The Environmental Engineering program supports fundamental research and educational activities across the broad field it serves. The goal of this program is to encourage transformative research which applies scientific principles to minimize solid, liquid, and gaseous discharges into land, inland and coastal waters, and air that result from human activity, and to evaluate adverse impacts of these discharges on human health and environmental quality. The program fosters cutting-edge scientific research based on fundamental science for identifying, evaluating, and developing new methods and technologies for assessing the waste assimilative capacity of the natural environment and for removing or reducing conventional and emerging contaminants from polluted air, water and soils. The program is based on four types of engineering tools - - measurement, analysis, synthesis, and design.

Major areas of interest and activity in the program include:

- Developing innovative biological, chemical, and physical treatment processes to remove and degrade pollutants from water and air
- Measuring, modeling, and predicting the movement and fate of pollutants in the environment
- Developing and evaluating techniques to clean up polluted sites by preserving and enhancing the self-purification ability or waste assimilative capacity of natural environmental systems, such as landfills and contaminated aquifers; restoring the quality of polluted water, air, and land resources, and rehabilitating degraded ecosystems.

Along with its sibling environmental programs (Energy for Sustainability, Environmental Implications of Emerging Technologies, and Environmental Sustainability), the program fosters environmental sustainability through pollution control and resource management/conservation, and development of techniques to minimize or avoid generating pollution. Research may be directed toward improving the cost-effectiveness of pollution avoidance, as well as developing new principles for pollution avoidance technologies. Research for new and improved sensors of environmental conditions and innovative waste reduction and recycling processes also are important components of this program.

Proposals should address the novelty of the concept being proposed, compared to previous work in the field. Also, it is important to address why the novelty might be 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. The information requested in this paragraph should be included, as a minimum, in the Project Summary of each proposal.

Due Date: 03/03/10; Next Date 9/23/10
Award: $100,000
Agency: NSF
Program: Environmental Engineering
Contact: Paul L. Bishop (pbishop@nsf.gov) (703-292-2161)
Website: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501029&org=NSF&sel_org=NSF&from=fund

NSF Environmental Implications of Emerging Technologies

The Environmental Implications of Emerging Technologies program provides support to develop and test the environmental effects of new technologies. Fundamental and basic research is sought to establish and understand outcomes as a result of the implementation of new technologies such as nanotechnology and biotechnology. The program also supports research on the development and refinement of sensors and sensor network technologies that can be used to measure a wide variety of physical, chemical, and biological properties of interest in characterizing, monitoring, and understanding environmental impacts.

The program emphasizes engineering principles underlying technology impacts. Innovative production processes, waste reduction, recycling, and industrial ecology technologies are of interest. All of these have implications that would be relevant to this program.

Current areas of support include:
- Understanding and mitigating how new developments in nanotechnology and biotechnology will interact with the environment
- Nanotechnology environmental, health, and safety implications and applications
- Predictive methodology for the interaction of nanoparticles with the environment and with the human body, including predictive approaches for toxicity
- Fate and transport of natural, engineered, and incidental (by-product) nanoparticles
- Risk assessment and management of the effect of nanomaterials in the environment
- Sensor and sensor network technologies as they relate to the measurement of these environmental implications

Current areas of support for this program do not include biomedical and nanotoxicology topics involving clinical trials.

All proposed research should be driven by engineering principles, and presented in an environmental health and safety or environmental sensor context. Proposals should include involvement of at least one engineering student. Proposals should address the novelty of the concept being proposed, compared to previous work in the field. Also, it is important to address why the novelty might be 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. The information requested in this paragraph should be included, as a minimum, in the Project Summary of each proposal.

Due Date: 03/03/10; Next Due Date: 9/23/10
Award: $100,000
Agency: NSF  
Program: Environmental Engineering  
Contact: Cynthia J. Ekstein (cekstein@nsf.gov) (703-292-7941)  
Website: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501030&org=NSF&sel_org=NSF&from=fund

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**NSF Environmental Sustainability**

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. These systems provide ecological services vital for human survival. The long-term viability of natural capital is critical for many areas of human endeavor. Research in Environmental Sustainability typically considers long time horizons and may incorporate contributions from the social sciences and ethics.

This program supports engineering research that seeks to balance society's need to provide ecological protection and maintain stable economic conditions. There are four principal general research areas which are supported, but others can be proposed:

- **Industrial Ecology**
- **Green Engineering**
- **Ecological Engineering**
- **Earth Systems Engineering**

Topics of interest in **Industrial Ecology** include advancements in modeling such as life cycle assessment, materials flow analysis, input/output economic models, and novel metrics for measuring sustainable systems. Understanding materials flow and taking advantage of such understanding to substitute less toxic, longer lived materials are important areas for consideration. The effects of substituted materials on waste streams can be explored. Innovations in industrial ecology are encouraged. Engineering tools for estimating costs and ramifications of sustainable development must be developed, tested, and evaluated.

In **Green Engineering**, research is encouraged to advance the sustainability of chemical processes, other manufacturing processes, green buildings, and infrastructure. Many programs in the Engineering Directorate support research in environmentally benign manufacturing or chemical processes. The Environmental Sustainability program supports research that would affect more than one chemical or manufacturing process or that takes a systems or holistic approach to green engineering for infrastructure or green buildings. Of particular interest is the next generation of water and wastewater treatment that will dramatically decrease material and energy use, consider new paradigms for delivery of services, and promote longer life for engineered systems. Improvements in distribution and collection systems that will advance smart growth strategies and ameliorate effects of growth are research areas that are supported by Environmental Sustainability. Innovations in prevention and management of storm water, wastewater technology, indoor air quality, recycling and reuse of drinking water, and other green engineering techniques to support sustainable construction projects may also be fruitful areas for research.
Ecological Engineering topics should focus on the engineering aspects of restoring ecological function to natural systems. Engineering research in enhancement of natural capital to foster sustainable development is encouraged. Many communities are involved in stream restoration, revitalization of urban rivers, and rehabilitation of wetlands that require engineering input. What is the fundamental engineering knowledge that is necessary for ecological engineering to function sustainability?

Earth Systems Engineering considers aspects of large scale engineering research that involve mitigation of greenhouse gas emissions, adaptation to climate change, and other global scale concerns.

Proposals should address the novelty of the concept being proposed, compared to previous work in the field. Also, it is important to address why the novelty might be 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. The information requested in this paragraph should be included, as a minimum, in the Project Summary of each proposal. All proposed research should be driven by engineering principles, and be presented explicitly in an environmental sustainability context. Proposals should include involvement in engineering research of at least one graduate student, as well as undergraduates. Incorporation of aspects of social, behavioral, and economic sciences is welcomed.

Due Date: 03/03/10; Next Due Date: 9/23/10
Award: $100,000
Agency: NSF
Program: Environmental Sustainability
Contact: Bruce Hamilton (bhamilto@nsf.gov) (703-292-7066)
Website: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501027&org=NSF&sel_org=NSF&from=fund

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NSF Solar Energy Initiative (SOLAR)
The purpose of the CHE-DMR-DMS Solar Energy Initiative is to support interdisciplinary efforts by groups of researchers to address the scientific challenges of highly efficient harvesting, conversion, and storage of solar energy. Groups must include three or more co-Principal Investigators of whom one must be a researcher in chemistry, a second in materials, and a third in mathematical sciences in areas supported by the Divisions of Chemistry, Materials Research, and Mathematical Sciences, respectively. The intent is to encourage new collaborations in which the mathematical sciences are linked in a synergistic way with the chemical and materials sciences to develop novel, potentially transformative approaches in an area of much activity but largely incremental advances. Successful proposals will offer potentially transformative projects, new concepts, and interdisciplinary education through research involvement based on the integrated expertise and synergy from the three disciplinary communities.

Due Date: 03/10/10
Award: $7,500-$1,100,000
Agency: NSF
Program: Solar Energy Initiative (SOLAR)
DOD Strategic Environmental Research and Development Program - SEED
The Department of Defense’s (DoD) Strategic Environmental Research and Development Program (SERDP) is seeking to fund environmental research and development proposals. SERDP is DoD’s environmental science and technology program, planned and executed in partnership with DOE and EPA. The Program invests across the broad spectrum of basic and applied research, as well as exploratory development. SERDP pursues solutions to DoD’s most intractable environmental problems. Advances in the understanding and management of DoD’s resources support the long-term sustainability of training and testing ranges and facilities. Innovative environmental technologies significantly reduce current and future environmental liabilities. The SEED Solicitation is designed to provide a limited amount of funding, not to exceed $150,000 in total cost and approximately one year in duration, for researchers to test proof of concept for work that will investigate new environmental approaches that entail high technical risk and/or have minimal supporting data. Successful SEED projects may lead to more extensive follow on efforts. Federal organizations respond to the Federal Call for Proposals and private sector organizations to the Broad Agency Announcement.
Proposals responding to focused Statements of Need (SON) in the following areas are requested:

- Environmental Restoration — innovative technologies for the detection, characterization, containment, and remediation of a wide range of contaminants in soil, sediments, and water.
- Munitions Management — advanced geophysical sensor and signal processing technologies for the detection, classification, and remediation of unexploded ordnance (UXO) and technologies for range clearance and reduced generation of UXO.
- Sustainable Infrastructure — research to advance DoD’s environmental management of its natural resources and to understand the impacts of climate change.
- Weapons Systems and Platforms — advanced alternative environmentally benign technologies and materials that reduce, control, or eliminate the waste and emissions associated with the manufacturing, maintenance, and use of DoD weapons systems and platforms.

Due Date: 03/11/10
Award: $150,000
Agency: DOD, DOE, EPA
Program: Strategic Environmental and Research Development Program
NSF Water Sustainability and Climate (WSC)

One of the most urgent challenges facing the world today is ensuring an adequate supply and quality of water in light of both burgeoning human needs and climate variability and change. Despite its importance to life on Earth, there are major gaps in our basic understanding of water availability, quality and dynamics, and the impact of both a changing and variable climate, and human activity, on the water system. The goal of the Water Sustainability and Climate (WSC) solicitation is to understand and predict the interactions between the water system and climate change, land use, the built environment, and ecosystem function and services through place-based research and integrative models. Studies of the water system using observations at specific sites in combination with models that allow for spatial and temporal extrapolation to other regions, as well as integration across the different processes in that system are encouraged, especially to the extent that they advance the development of theoretical frameworks and predictive understanding. Specific topics of interest include:

- Determining the inputs, outputs, and potential changes in water budgets in response to both climate variability and change, and human activity, and the effect of these changes on biogeochemical cycles, water quality, long-term chemical transport and transformation, terrestrial, aquatic and coastal ecosystems, landscape evolution and human settlements and behavior.

- Developing theoretical frameworks and models that incorporate the linkages and feedbacks among atmospheric, terrestrial, aquatic, oceanic, and social processes that can be used to predict the potential impact of climate variability and change, land use and human activity on water systems on decadal to centennial scales in order to provide a basis for adaptive management of water resources.

- Determining how our built water systems and our governance systems can be made more reliable, resilient and sustainable to meet diverse and often conflicting needs, such as minimizing consumption of water for energy generation, industrial and agricultural production and built environment requirements, reuse for both potable and non-potable needs, ecosystem protection, and flood control and storm water management.

Proposals may establish new observational sites or utilize existing sites and facilities already supported by NSF or other federal and state agencies (e.g. USEPA, USGS). Proposals that do not broadly integrate across the biological sciences, engineering, geosciences, and social sciences may be returned without review. Successful proposals are expected to study water systems in their entirety and to enable a new interdisciplinary paradigm in water research.

**Due Date:** 03/15/10  
**Award:** $24,000-$300,000  
**Agency:** NSF  
**Program:** Water Sustainability and Climate (WSC)  
**Contact:**  
Cheryl Eavey (ceavey@nsf.gov) (703-292-7269)
Since the publication of The Royal Society's report *Ocean Acidification Due to Increasing Atmospheric Carbon Dioxide* (June 2005, [www.royalsoc.ac.uk](http://www.royalsoc.ac.uk)), there has been growing concern for the potential adverse impacts of a slowly acidifying sea upon marine ecosystems. In recognition of the need for basic research concerning the nature, extent and impact of ocean acidification on oceanic environments in the past, present and future, this announcement has the following broad goals:

- To understand the chemistry and physical chemistry of ocean acidification and, in particular, its interplay with fundamental biochemical and physiological processes of organisms;
- To understand how ocean acidification interacts with processes at the organismal level, and how such interactions impact the structure and function of ecosystems, e.g. through life histories, food webs, biogeochemical cycling, and other interactions;
- To understand how the earth system history informs our understanding of the effects of ocean acidification on the present day and future ocean.

New research frontiers require the development of interdisciplinary partnerships and capacity building within the scientific community. Accordingly, full research proposals, exploratory proposals, and community development efforts such as workshops and symposia all are encouraged. Proposals must clearly demonstrate links between the research outcome and the emphasis areas described within the solicitation. Preference will be given to proposals that create new partnerships across traditional disciplines (including molecular and cellular biology, physiology, marine chemistry and physics, ecological sciences, paleoecology, and earth system history) and use diverse approaches (observational systems, experimental studies, theory and modeling) to examine cutting edge research questions related to ocean acidification.

**Due Date: 03/29/10**

**Award: $65,000-$2,000,000 (avg $500,000)**

**Agency: NSF**

**Program: Ocean Acidification**

**Contact:**

David L. Garrison (dgarriso@nsf.gov) (703-292-7588)
Gregory Warr (gwarr@nsf.gov) (703-292-8440)
Roberta L. Marinelli (rmarinel@nsf.gov) (703-292-7448)

**Website:**

**EPA Exploring New Air Pollution: Health Effects Links in Existing Datasets**

The U.S. Environmental Protection Agency (EPA), as part of its Science to Achieve Results (STAR) program, is seeking applications proposing to use existing datasets from health studies to analyze health outcomes for which the link to air pollution is not well established, or to evaluate underlying heterogeneity in health responses among subgroups defined by susceptibility or extent and/or composition of exposure.

**Due Date: 04/27/10**

**Award:** up to $300,000

**Agency:** EPA

**Program:** Exploring New Air Pollution: Health Effects Links in Existing Datasets

**Contact:**
- Eligibility Contact: William Stelz (stelz.william@epa.gov) (202-343-9802)
- Electronic Submissions: Ron Josephson (josephson.ron@epa.gov) (202-343-9643)
- Technical Contact: Stacey Katz (katz.stacey@epa.gov)(202-343-9857) and Gail Robarge (robarge.gail@epa.gov) (02-343-9855)


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**NSF Sociology Program**

The Sociology Program supports basic research on all forms of human social organization -- societies, institutions, groups and demography -- and processes of individual and institutional change. The Program encourages theoretically focused empirical investigations aimed at improving the explanation of fundamental social processes. Included is research on organizations and organizational behavior, population dynamics, social movements, social groups, labor force participation, stratification and mobility, family, social networks, socialization, gender roles, and the sociology of science and technology. The Program supports both original data collections and secondary data analysis that use the full range of quantitative and qualitative methodological tools. Theoretically grounded projects that offer methodological innovations and improvements for data collection and analysis are also welcomed. Click here for information on [Strengthening Qualitative Research through Methodological Innovation and Integration](http://epa.gov/ncer/rfa/2010/2010_star_air_poll.html#Synopsis). The Sociology Program also funds doctoral dissertation research to defray direct costs associated with conducting research, for example, dataset acquisition, additional statistical or methodological training, meeting with scholars associated with original datasets, and fieldwork away from the student's home campus. Please click here for additional information on the [Sociology Doctoral Dissertation Improvement Grant](http://epa.gov/ncer/rfa/2010/2010_star_air_poll.html#Synopsis).

Projects are evaluated using the two Foundation-wide criteria, intrinsic merit and broader impacts. In assessing the intrinsic merit of proposed research, four components are key to securing support from the Sociology Program: (1) the issues investigated must be theoretically grounded; (2) the research should be based on empirical observation or be subject to empirical validation or illustration; (3) the research design must be appropriate to the questions asked; and (4) the proposed research must advance our understanding of social processes, structures and methods.

The NSF also offers a number of specialized funding opportunities through its crosscutting and cross-directorate activities; some of the Sociology related opportunities
are listed below.

Crosscutting Research & Training Opportunities:

- Advancement of Women in Academic Science and Engineering Careers (ADVANCE)
- Faculty Early Career Development Awards (CAREER)
- Education & Human Resources
- Graduate Fellowship
- Integrative Graduate Education and Research Training (IGERT) Program
- Major Research Instrumentation (MRI) Program
- Minority Postdoctoral Research Fellowships
- Research Experiences for Undergraduates (REU)
- Research at Undergraduate Institutions (RUI)
- Science of Learning Centers (SLC)
- Science and Technology Centers (STC) Integrative Partnerships
- Small Business Innovation Research (SBIR) Program

Due Date: 08/15/10
Award: $10,000-$400,000 (avg $70,000)
Agency: NSF
Program: The Sociology Program
Contact:
Patricia E. White-Program (pwhite@nsf.gov) (703) 292-8762)
Jan E. Stets (jstets@nsf.gov) (703-292-7291)
Lakiera P. Spicer (lspicer@nsf.gov) (703-292-7167)
Website:

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NSF Economics Program
The Economics program supports research designed to improve the understanding of the processes and institutions of the U.S. economy and of the world system of which it is a part. This program also strengthens both empirical and theoretical economic analysis as well as the methods for rigorous research on economic behavior. It supports research in almost every area of economics, including econometrics, economic history, environmental economics, finance, industrial organization, international economics, labor economics, macroeconomics, mathematical economics, and public finance.

The Economics program welcomes proposals for individual or multi-investigator research projects, doctoral dissertation improvement awards, conferences, workshops, symposia, experimental research, data collection and dissemination, computer equipment and other instrumentation, and research experience for undergraduates. The program places a high priority on interdisciplinary research. Investigators are encouraged to submit proposals of joint interest to the Economics Program and other NSF programs and NSF initiative areas. The program places a high priority on broadening participation and encourages proposals from junior faculty, women, other underrepresented minorities, Research Undergraduate Institutions, and EPSCoR states.

The program also funds conferences and interdisciplinary research that strengthens links
among economics and the other social and behavioral sciences as well as mathematics
and statistics.

**Due Date:** 08/18/10  
**Award:** $4,600-$600,000 (avg $100,000)  
**Agency:** NSF  
**Program:** The Economics Program  
**Contact:**  
Nancy A. Lutz (nlutz@nsf.gov) (703-292-7280)  
Andrew Feltenstein (afeltens@nsf.gov) (703-292-8202)  
Florenz Plassmann (fplassma@nsf.gov) (703) 292-7266  

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**Energy Foundation Grants**

The Energy Foundation is a partnership of major donors interested in solving the world's energy problems. Our mission is to advance energy efficiency and renewable energy — new technologies that are essential components of a clean energy future. Our primary role is as a grantmaker, providing resources to the institutions that most effectively leverage change. When we see an unmet need we also take direct initiatives, commission papers, or convene meetings. The Energy Foundation funds projects related to power, buildings, transportation and climate.

- Generally, the foundation makes grants to nonprofit charitable organizations classified as 501(c)(3) public charities by the Internal Revenue Service. The foundation is unable to make grants directly to individuals.
- The foundation is unable to support local projects, unless they have been consciously designed for further replication or have broad regional or national implications. The foundation's geographic focus is the United States and China, with special emphasis on regional initiatives.
- The foundation is unable to make grants intended to support candidates for political office, to influence legislation, or to support sectarian or religious purposes.
- The foundation is unable to fund the research and development of technology (e.g., funds to develop hybrid automobiles or commercialization of an invention).
- The foundation is unable to fund demonstration projects (e.g., model solar homes).
- The foundation is unable to fund community energy projects.

The foundation is unable to fund endowments or debt reduction, nor does it make general-support grants. The foundation is not able to support annual fund-raising campaigns or capital construction. The foundation is unable to support the planning, renovation, maintenance, retrofit, or purchase of buildings; the purchase of equipment; or the acquisition of land, even if the intent is to save energy.

Related Areas of Interest:

Grant Proposal Guidelines: [http://www.ef.org/app_guidelines.cfm](http://www.ef.org/app_guidelines.cfm)
Topics of Funding:

**Power** ([http://www.ef.org/programs.cfm?program=power](http://www.ef.org/programs.cfm?program=power))


The power sector supports work in the following areas:

- Policies that yield large-scale purchases of renewable energy, expanding the size of the industry;
- Policies that yield substantial investments in the utility sector to improve energy efficiency; and
- Policies that remove market and regulatory barriers to renewables, efficiency, and clean distributed generation.

**Buildings** ([http://www.ef.org/programs.cfm?program=buildings](http://www.ef.org/programs.cfm?program=buildings))

The Energy Foundation will support policies to increase the efficiency of U.S. homes and businesses, reducing global-warming emissions and saving consumer dollars.

Last year’s building grants:

The foundation is particularly interested in efforts to:

- Establish stringent state and national appliance and equipment standards; and
- Create public policy incentives that pull super-efficient appliances and equipment into the market and result in buildings that surpass model energy codes by 30-50 percent.

**Transportation** ([http://www.ef.org/programs.cfm?program=transportation](http://www.ef.org/programs.cfm?program=transportation))

The Energy Foundation promotes policies that reduce vehicle global warming pollution and oil consumption. Our Transportation Program seeks to accelerate the transition to low-carbon vehicles and fuels.

Last year’s transportation grants:


Therefore, the Energy Foundation is particularly interested in efforts to promote federal and state policies that reduce global warming pollution from conventional vehicles, encourage advanced vehicles, and accelerate sustainable, low-carbon fuels.

Therefore, the Energy Foundation is particularly interested in efforts to promote federal and state policies that reduce global warming pollution from conventional vehicles, encourage advanced vehicles, and accelerate sustainable, low-carbon fuels.

**Climate** ([http://www.ef.org/programs.cfm?program=climate](http://www.ef.org/programs.cfm?program=climate))

The Climate Program supports policy to limit and reduce greenhouse gas emissions. We seek to develop and promote a comprehensive, market-based climate change policy framework that creates jobs and puts the country on course toward a sustainable energy
future. We focus primarily on national policy to cap and reduce carbon pollution, while also supporting precedent-setting state and regional programs. Last year’s climate grants: http://www.ef.org/docs/2007_Climate_Grants_from_AR.pdf The Climate Program supports efforts to develop national climate policy and to educate policymakers. Potential areas of work include:

- Building support for climate protection among non-traditional allies, such as religious groups, agricultural organizations, and business associations;
- Developing ideas for how climate policy can protect consumers, business, and workers, and how it can promote wide-scale deployment of energy efficiency and renewable energy technologies;
- Determining the job and economic growth potential of climate policy;
- Targeted efforts in key states to educate opinion leaders; and,
- Linking U.S. action to a new international climate agreement.

We also support limited efforts to advance leading-edge state and regional policy programs, such as California's AB 32 or regional cap-and-trade agreements. Activity in the states sets a firm foundation for federal policy.

**Due Date: Variable** (The foundation's Board of Directors meets three times a year (the first week of March, the third week of June, and the first week of November). We accept proposals on a continuous basis. There are no specific deadlines. However, in order to consider a proposal for inclusion in a specific docket, we need to receive proposals approximately twelve weeks in advance of the next board meeting. Please keep in mind that it takes approximately four weeks to review proposals and inquiries and to contact you with a response.)

**Award: Variable**

**Agency: The Energy Foundation**

**Program: Power, Buildings, Transportation, or Climate Programs**

**Contact:** energyfund@ef.org

**Website:** http://www.ef.org/app_guidelines.cfm

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_Duke Energy Foundation Grants_

At the core of The Duke Energy Foundation is its commitment to the community, with a focus in three areas:

- Environment and Energy Efficiency
  - Programs that support conservation, training and research around environmental and energy efficiency initiatives.
- Economic Development
  - Skills development, including job entry skills for the new economy and retraining of unemployed and underemployed workers.
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Center for Research in Energy and the Environment

- Pre K-12 education focused on math, science and technology.
- Higher education, government or other non-profit initiatives designed to support innovative solutions for business/industry/workforce challenges.

- Community Vitality
  - Health and human services through United Way, arts & culture, energy assistance, public safety. Community leadership development/capacity building.

Due Date: Ongoing
Award: Not Specified
Agency: Duke Energy
Program: Duke Energy Foundation Grants
Contact: fundopps@duke.edu
Website: [https://researchfunding.duke.edu/detail.asp?OppID=6957](https://researchfunding.duke.edu/detail.asp?OppID=6957)

Joyce Foundation Grants

We focus our grant making on initiatives that promise to have an impact on the Great Lakes region, specifically the states of Illinois, Indiana, Michigan, Minnesota, Ohio, and Wisconsin. A limited number of environment grants are made to organizations in Canada. Education grant making in K-12 focuses on Chicago, Indianapolis, and Milwaukee; early childhood grant making focuses on Illinois and Wisconsin. Culture grants are primarily focused on the Chicago metropolitan area, except for the Joyce Awards, which extend to other Midwest cities. We do not generally support capital proposals, endowment campaigns, religious activities, commercial ventures, direct service programs, or scholarships.

The Joyce Foundation is committed to improving public policy through its grant program. Accordingly, the Foundation welcomes grant requests from organizations that engage in public policy advocacy. Federal tax law prohibits private foundations from funding lobbying activities. The Foundation may support organizations engaged in public policy advocacy by either providing general operating support or by funding educational advocacy such as nonpartisan research, technical assistance, or examinations of broad social issues. The Foundation encourages grant applicants to describe the nature of advocacy activities in their grant applications and reports, so the Foundation can ensure that it is in compliance with federal tax laws. For further information on the relevant federal tax laws, grant applicants should consult their tax advisors.

Related areas of Interest:
[http://www.joycefdn.org/Programs/Environment/Guidelines.aspx](http://www.joycefdn.org/Programs/Environment/Guidelines.aspx)

Great Lakes Protection and Restoration

The Joyce Foundation will seek and support funding opportunities to restore and protect the Great Lakes in the following areas:

a) On the ground protection and restoration efforts that can be monitored, documented, and replicated elsewhere;
b) Efforts to drive policy development by combining the work of policy advocates with on the ground practitioners, including nontraditional stakeholders;

c) Efforts to advocate at the local, state, and national levels for these collectively developed policies.

The Foundation will consider proposals at the local, state, regional, and national levels that address the following four areas:

- Reduce polluted, non-point source runoff from agricultural lands and urban/suburban/exurban lands;

- Protect and restore critical habitats such as wetlands through improved hydrology and other means. Critical habitats exist in developed, rural, and undeveloped landscapes, and projects will be evaluated based on their value for demonstrating successful restoration methods, protecting critical areas for wildlife and water quality, public attraction and accessibility, and political significance;

- Improve coastal health particularly through the increased use of green infrastructure and through new means of financing conventional infrastructure;

- Implement the Great Lakes-St. Lawrence River Basin Water Resources Compact.

**The Global Energy Transition: The Midwestern Role**

The Foundation will consider proposals in three areas:

- Efforts to speed the deployment of advanced coal technologies with carbon capture and storage capability;

- Efforts to support the implementation of local, state and regional climate and energy plans;

- Efforts to improve the design, delivery and evaluation of energy efficiency programs that increase customer participation and per customer energy savings.

**Due Date: Ongoing**

Grant proposals are considered at meetings of the Foundation’s Board of Directors in April, July, and December. Deadline dates are:

<table>
<thead>
<tr>
<th>Board Meeting</th>
<th>Proposal Deadline</th>
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<tr>
<td>April 2010</td>
<td>December 8, 2009</td>
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<tr>
<td>July 2010</td>
<td>April 12, 2010</td>
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<tr>
<td>December 2010</td>
<td>August 18, 2010</td>
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<td>April 2011</td>
<td>December 7, 2010</td>
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Applicants are strongly encouraged to plan their application and proposal submission
process for the April or July meetings, since most grant funds will be distributed at those times.

**Award:** Not Specified  
**Agency:** The Joyce Foundation  
**Program:** The Joyce Foundation Grants  
**Contact:** info@joycefdn.org  
**Website:** [http://www.joycefdn.org/Default.aspx](http://www.joycefdn.org/Default.aspx)

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**Doris Duke Foundation Grants**

The mission of the Doris Duke Charitable Foundation is to improve the quality of people's lives through grants supporting the performing arts, environmental conservation, medical research and the prevention of child abuse, and through preservation of the cultural and environmental legacy of Doris Duke's properties.

**Environment Program:**
The mission of the Environment Program is to preserve wildlife in the United States, both flora and fauna.

**Initiatives**
The Environment Program seeks to accomplish its mission through two strategic initiatives:

- **Habitat Conservation** – This initiative seeks to accelerate the conservation of essential habitats identified in state wildlife action plans through grants that identify priority habitats for conservation, protect priority habitats and build conservation knowledge.

- **Climate Change** – This initiative seeks to help build a clean-energy economy through grants that support the research and analysis needed to develop government policies to foster technological innovation in the energy sector and accelerate the emergence of tomorrow’s clean-energy technologies.

**Due Date:** Ongoing  
**Award:** Not Specified  
**Agency:** Doris Duke Foundation  
**Program:** Doris Duke Foundation Grants  
**Contact:**  
DDCF Headquarters & Grantmaking Programs  
650 Fifth Avenue, 19th Floor  
New York, NY 10019  
Phone (212) 974-7000  
Fax (212) 974-7590  
**Website:** [http://www.ddcf.org/page.asp?pageId=505](http://www.ddcf.org/page.asp?pageId=505)

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**Pew Charitable Trusts Grants**
Pew invests in programmatic work to solve today’s most challenging problems. Whether protecting ocean life, fixing the foster care system or promoting access to preschool, we
partner with a diverse range of public and private organizations who share our commitment to new ways of thinking and new forms of action for improving society.

**Related Program Priorities:**

**PEW ENVIRONMENT GROUP**

*Global Warming and Climate Change:*  
Pew is working to create a policy environment that leads to the adoption of mandatory federal limits on emissions that contribute to global warming. Our efforts are focused on educating policy makers and the public about the causes, consequences and solutions to the problem of climate change; informing and mobilizing opinion leaders and key constituencies about the urgency of the problem and the need for action; promoting policy options that will achieve real emissions reductions throughout the economy; and advancing a new global climate agreement to succeed the Kyoto Protocol.

*Conservation of Living Marine Resources:*  
Our marine work is aimed at preserving the biological integrity of marine ecosystems. We focus primarily on efforts to curb overfishing, reduce bycatch and prevent the destruction of marine habitat in the United States and elsewhere in the world’s oceans, and are engaged in activities designed to educate the public, policy makers and the media about the problems affecting both the national and the global marine environments. In the United States, we focus on increasing protection for fish, marine mammals and other living marine resources at both the federal and regional levels of government; on ensuring that the National Marine Fisheries Service and the Regional Marine Fishery councils comply with existing federal laws related to the nation’s fisheries and other life in the sea; and on halting the destruction of habitat that is critical to maintaining a healthy marine food web. Internationally, we are engaged in a variety of campaigns to protect large marine predators, such as whales and sharks that are endangered or whose populations have plummeted due to overfishing and destructive fishing practices; as well as those small fish and crustaceans such as krill that are critical as a food source for other marine life and are threatened by targeted fishing efforts. We also focus our efforts on protection of areas of the oceans that are of particular ecological significance and on the design of effective fisheries management systems for the high seas.

*Old-Growth Forests and Wilderness Protection:*  
Since the early 1990s, Pew has been involved in public education and advocacy efforts to mobilize support for improved management of and strict protection for old-growth forests and wilderness areas on public lands in North America. Most of the large campaigns in which we are engaged are coordinated by Pew staff, but involve multiple organizations that share common goals and are committed to working collaboratively to accomplish objectives that no single organization can achieve on its own. Our working relationships with our partners are built on carefully crafted agreements in which each organization commits to undertake certain activities and deliver specific results within a designated period of time. We select these organizations on the basis of shared goals, a demonstrated commitment to achieving results, a high level of professional experience and excellence and a willingness to tackle difficult tasks in a shifting and often unpredictable policy environment.
PEW CENTER ON THE STATES
The Pew Center on the States helps advance effective policy approaches to critical issues facing states. The center conducts rigorous policy research, brings together diverse perspectives, analyzes states’ experiences to determine what works and what does not, and collaborates with other funders and organizations to shine a spotlight on innovative, nonpartisan, pragmatic policy solutions and, when the facts are in, advocates for reform. Pew invests in several critical state policy projects, described in more detail below. The center supports those efforts and explores a wider range of state policy issues as strategically and efficiently as possible.

**Due Date: Not specified**

**Award: Not Specified**

**Agency: The Pew Charitable Trusts Foundation**

**Program: The Pew Charitable Trusts Foundation Grants**

**Contact:**
- For Environmental Projects: Joshua Reichert (envimail@pewtrusts.org)
- For State Projects: Susan Urahn (statepolicymail@pewtrusts.org)

**Website:** [http://www.pewtrusts.org/program_investments.aspx](http://www.pewtrusts.org/program_investments.aspx)

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**EDA Economic Development Technical Assistance**

EDA oversees three technical assistance programs (National, Local and University Center) that promote economic development and alleviate unemployment, underemployment, and out-migration in distressed regions. These programs provide grants or cooperative agreements (to: (1) invest in institutions of higher education to establish and operate University Centers to provide technical assistance to public and private sector organizations with the goal of enhancing local economic development; (2) support innovative approaches to stimulate economic development in distressed regions; (3) disseminate information and studies of economic development issues of national significance; and (4) finance feasibility studies and other projects leading to local economic development. These programs aid the long-range economic development of regions with severe unemployment and low per capita income.

Technical assistance is used to provide information, data, and know-how in evaluating, shaping and implementing specific projects and programs that promote economic development in economically distressed regions. EDA may identify specific training, research or technical assistance Projects it will fund under National Technical Assistance, which will be subject to competition. Ordinarily, these Projects are specified in an FFO, which will provide the specific requirements, timelines and the appropriate points of contact and addresses.

EDA-sponsored University Centers conduct research; provide technical assistance to tribal entities, local governments, and public and private sector organizations; and undertake other activities with the goal of enhancing regional economic development by promoting a favorable business environment to attract private capital investment and higher-skill, higher-wage jobs. University Center recipients specialize in a diverse
spectrum of services, ranging from a legal clinic for entrepreneurs to a horticultural institute focusing on linking organic producers to the worldwide marketplace to a center focused on commercializing research in the field of alternative energy. Others focus on technology transfer programs or services for manufacturers. EDA University Center competitions are held once every three years in each EDA Region. The project must be consistent with the CEDS of the region in which it is located, if applicable.

At least eighty (80) percent of EDA funding under a University Center Economic Development award must be allocated to direct costs of program delivery; unrecovered indirect costs are not chargeable to the award without EDA’s express approval. All EDA grants are discretionary. EDA does not award formula grants.

**Due Date: Unspecified**
**Award: Total $13,000,000**
**Agency: DOC**
**Program: Economic Development_Technical Assistance**
**Contact: Maureen V. Klovers (mklovers@eda.doc.gov) (202-482-2785)**
**Website:** [https://www.cfda.gov/index?s=program&mode=form&tab=step1&id=44c7e7b36bff91c8a17f06fa257507f8](https://www.cfda.gov/index?s=program&mode=form&tab=step1&id=44c7e7b36bff91c8a17f06fa257507f8)

**DOC Unallied Management Projects**
Projects provide economic, sociological, public policy, and other information needed by Federal and State natural resource administrators for conserving and managing fishery resources and protected species and their environment in Federal, State, and U.S. territorial waters. Information derived from project studies may consist of econometric data, user profiles, sociological case studies, policy and systems analyses, and other knowledge, and is used in such decisions as resource allocations, total and zonal harvest determinations, and initial apportionment of harvesting rights under controlled access management regimes. Primary users of project information include the National Marine Fisheries Service, Regional Fishery Management Councils, Interstate Marine Fisheries Commissions, State, and other Federal resource management agencies.

Funds can be used by recipients to support a wide variety of management activities for high-priority marine and estuarine resources, especially for species and/or their habitat currently under or proposed for future Federal or interjurisdictional management.

**Due Date: Not Specified**
**Award: $146,500-$1,270,000**
**Agency: DOC**
**Program: Unallied Management Projects**
**Contact: Dan Namur (dan.namur@noaa.gov) (301-713-1364)**
**Website:** [https://www.cfda.gov/index?s=program&mode=form&tab=step1&id=53c45333d01f9ae83b340766f7b4dcca](https://www.cfda.gov/index?s=program&mode=form&tab=step1&id=53c45333d01f9ae83b340766f7b4dcca)

**DOC Hydrologic Research**
To maintain a cooperative university/Federal partnership to conduct joint research and
development on pressing surface water hydrology issues common to National, regional, local operational offices, private consulting hydrologists, and academics.

Funds can be used to support research and development on issues related to the forecasting of surface hydrologic conditions. Specific restrictions, other than those mandated for grants, are evaluated on an individual grant or program basis. The program office may support non-competitive awards by direction from legislative language or unsolicited projects that are individually qualified.

Since the benefits of the overall program are for a reduction in loss of life and damage resulting from flooding and drought, and improved utilization of water supply and water dependent industries, benefits accrue from these projects to: (1) Federal agencies responsible to forecast, assess, manage, disperse, project economic conditions based on projections of water supply for agriculture and industry, and control water resources; (2) interstate commissions to control and allocate surface waters; (3) State agencies responsible for allocating and controlling water resources and for making projections for the use of water for industry and agriculture and for planning and developing infrastructure within the State that is impacted by rivers and lakes; (4) local agencies dependent on water for economic planning, emergency preparedness, and public water supply; (5) all businesses and industries depending all or in part upon surface water supplies or adequate water in lakes for recreation, in rivers to generate power, or in production or dispersion of products or who must take action in order to ameliorate damage during flood situations, (6) wildlife interests at all levels that are dependent upon water management for managing the environment; (7) homeowners or farmers who must plan for proper responses to flooding or inadequate water supply; and (8) academic institutions which are funded for programs dealing with the studies of hydrologic science.

**Due Date: Not Specified**
**Award:** $80,162-$124,999 (Average: $105,789)
**Agency:** DOC
**Program:** Hydrologic Research
**Contact:** Senior Scientist Senior Scientist Hydrology Laboratory (301-713-0640)
**Website:**
https://www.cfda.gov/index?s=program&mode=form&tab=step1&id=0e7923030b7bac2acf19e9b8972b21b9

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