

Funding Announcements for August 27, 2014



Funding Announcements is a weekly list of funding opportunities offered by federal funding agencies, private foundations, and a range of supplementary entities.

Funding Announcements are not meant to be a one-stop source for funding opportunities. Additional funding opportunities may be found at <http://www.grants.gov>. Grants.gov is the single access point for individuals to search competitive funding opportunities from more than 900 grant programs offered by the 26 federal grant-making agencies.

Miscellaneous

NSF

Dear Colleague Letter: Integrated NSF Support Promoting Interdisciplinary Research and Education (INSPIRE)

http://www.nsf.gov/pubs/2014/nsf14106/nsf14106.jsp?WT.mc_id=USNSF_25&WT.mc_ev=click

The INSPIRE pilot seeks to support bold interdisciplinary projects in all NSF-supported areas of science, engineering, and education research. INSPIRE has no targeted themes and serves as a funding mechanism for proposals that are required both to be interdisciplinary and to exhibit potentially transformative research.

Proposals in response to this Dear Colleague Letter may be submitted after August 1, 2014.

Education and Outreach

NSF

Advancing Informal STEM Learning

http://www.nsf.gov/pubs/2014/nsf14555/nsf14555.htm?WT.mc_id=USNSF_25&WT.mc_ev=click

Application Deadline: 11/14/2014

The Advancing Informal STEM Learning program seeks to advance new approaches to and evidence-based

understanding of the design and development of STEM learning in informal environments, provide multiple pathways for broadening access to and engagement in STEM learning experiences, advance innovative research on and assessment of STEM learning in informal environments, and develop understandings of deeper learning by participants.

Engineering and Technology

DOD

Biological Robustness in Complex Settings

<https://www.fbo.gov/spg/ODA/DARPA/CMO/DARPA-BAA-14-49/listing.html>

Application Deadline: 02/17/2017

DARPA invites proposals for the Biological Robustness in Complex Settings (BRICS) program to support projects that develop the necessary fundamental understanding and component technologies to create robust engineered biological systems. Proposals will be accepted in three technical areas: robustness, stability; and, safety.

DOD

Computational Methods for Decision Making

<https://www.fbo.gov/spg/DON/ONR/ONR/ONRBAA14-010/listing.html>

Application Deadline: 10/09/2014

The Office of Naval Research invites proposals for projects on Algorithms, Methods, Techniques, and Strategies for Automated Computational Methods and Information Systems that Support Decision Making. Applications will be accepted in four technical areas: 1) resource optimization, 2) automated image understanding, 3) information integration, and 4) cyber security.

NSF

Cyberlearning and Future Learning Technologies

<http://www.nsf.gov/pubs/2014/nsf14526/nsf14526.htm>

The purpose of this program is to integrate opportunities offered by emerging technologies with advances in what is known about how people learn to advance three interconnected thrusts: 1) innovation, 2) advancing understanding of how people learn in technology-rich learning environments, and 3) promoting broad use and transferability of new genres.

Submission deadlines vary. See the solicitation for details.

NSF

Petascale Computing Resource Allocations

<http://www.nsf.gov/pubs/2014/nsf14518/nsf14518.htm>

In 2013, a new NSF-funded petascale computing system, Blue Waters, was deployed at the University of Illinois. The goal of this project and system is to open up new possibilities in science and engineering by providing computational capability that makes it possible for investigators to tackle much larger and more complex research challenges across a wide spectrum of domains. The purpose of this solicitation is to invite research groups to submit requests for allocations of resources on the Blue Waters system.

The full proposal deadlines are November 14, 2014; November 13, 2015; and November 9, 2016.

Simons Foundation

Simons Fellows Program

<http://www.simonsfoundation.org/funding/funding-opportunities/mathematics-physical-sciences/simons-fellow-program/>

Application Deadline: 09/30/2014; The Simons Foundation Division for Mathematics and the Physical Sciences invites applications for the Simons Fellows Programs in both Mathematics and Theoretical Physics. The Fellows Programs provide funds to faculty for up to a semester long research leave from classroom teaching and administrative obligations.

Foundations**John Templeton Foundation**

Letters of Inquiry for Core Funding Area Projects

<http://www.templeton.org/what-we-fund/core-funding-areas>

Application Deadline: 10/01/2014

The John Templeton Foundation is currently accepting online funding inquiries for research projects related to its core funding areas. Core funding topics include science and the big questions (mathematical and physical sciences, life sciences, human sciences, philosophy and theology, science in dialogue with philosophy or theology), character development, freedom and free enterprise, exceptional cognitive talent and genius, and genetics.

Simons Foundation

Targeted Grants in the Mathematical Modeling of Living Systems

http://www.simonsfoundation.org/funding/funding-opportunities/mathematics-physical-sciences/targeted-grants-in-the-mathematical-modeling-of-living-systems/?utm_source=Funding+Supplement&utm_campaign=4e049ec157-FS_8_19_148_19_2014&utm_medium=email&utm_term=0_8d6cbefc3d-4e049ec157-212708225

Application Deadline: 09/30/2014

This program aims to support research in the life sciences that breaks new conceptual or theoretical ground and relates closely to experiment, for example, by introducing new and experimentally testable concepts or by developing models that can explain data and motivate new classes of experiments. Successful proposals will typically involve both new theoretical approaches and a direct interaction with biological experiment.

Law, Justice, and Human Rights

NSF

Law and Social Sciences

<http://www.nsf.gov/pubs/2012/nsf12507/nsf12507.htm>

The Law and Social Sciences Program considers proposals that address social scientific studies of law and law-like systems of rules. The program is inherently interdisciplinary and multi-methodological. Successful proposals describe research that advances scientific theory and understanding of the connections between law or legal processes and human behavior. Social scientific studies of law often approach law as dynamic, made in multiple arenas, with the participation of multiple actors. **Multiple submission deadlines apply.** See the solicitation for details.

Life Sciences

American Philosophical Society

Lewis and Clark Fund for Exploration and Field Research for Doctoral Students

<http://www.amphilsoc.org/grants/lewisandclark>

Application Deadline: 02/02/2015

The Lewis and Clark Fund encourages exploratory field studies for the collection of specimens and data and to provide the imaginative stimulus that accompanies direct observation. Applications are invited from disciplines with a large dependence on field studies, such as archeology, anthropology, biology, ecology, geography, geology, linguistics, paleontology, and population genetics, but grants will not be restricted to these fields.

NIH

Developing Interventions for Health-Enhancing Physical Activity (R21/R33)

<http://grants.nih.gov/grants/guide/pa-files/PA-14-321.html>

This funding announcement encourages applications for Phased Innovation grant awards to support highly innovative research aimed at developing multi-level interventions that will increase health-enhancing physical activity: 1) in persons or groups who can benefit from such activity and 2) that can be made scalable and sustainable for broad use across the nation.

Application dates vary. See solicitation for details.

NIH

Testing Interventions for Health-Enhancing Physical Activity (R01)

<http://grants.nih.gov/grants/guide/pa-files/PAR-14-315.html>

The purpose of this funding announcement is to fund highly innovative and promising research that tests multi-level intervention programs of one to two years in length that are designed to increase health-enhancing physical activity: 1) in persons or groups that can benefit from such activity and 2) that could be made scalable and sustainable for broad use across the nation.

Application dates vary. See solicitation for details.

NIH

Understanding Factors in Infancy and Early Childhood (Birth to 24 months) That Influence Obesity Development (R01)

<http://grants.nih.gov/grants/guide/pa-files/PAR-14-323.html>

This funding announcement invites applications from institutions/organizations which propose to characterize or identify factors in early childhood (birth-24 months) that may increase or mitigate risk for obesity and/or excessive weight gain and/or to fill methodological research gaps relevant to the understanding of risk for development of obesity in children. Studies must propose research in children from birth to 24 months, although any proposed follow-up assessments, if applicable, may continue past this period. Studies may also assess factors relevant to families and/or caregivers of children from birth to 24 months. Applications should seek to fill unique research needs and involve expertise across disciplines as appropriate for the proposed research question.

Applications are due February 5, 2015; October 5, 2015; June 5, 2016; and February 5, 2017.

NSF

Division of Environmental Biology Core Programs

<http://www.nsf.gov/pubs/2014/nsf14503/nsf14503.htm>

The Division of Environmental Biology supports fundamental research on populations, species, communities, and ecosystems. Scientific emphases range across many evolutionary and ecological patterns and processes at all spatial and temporal scales. Areas of research include biodiversity, phylogenetic systematics, molecular evolution, life history evolution, natural selection, ecology, biogeography, ecosystem structure, function and services, conservation biology, global change, and biogeochemical cycles.

Preliminary proposals are due by January 23, annually. Invited full proposals are due by August 2, annually.

NSF

Division of Integrative Organismal Systems Core Programs

<http://www.nsf.gov/pubs/2013/nsf13600/nsf13600.htm>

Application Deadline: 08/07/2015

The Division of Integrative Organismal Systems (IOS) supports research aimed at understanding why organisms are structured the way they are and function as they do. Areas of inquiry include, but are not limited to, developmental biology and the evolution of developmental processes, nervous system development, structure, and function, physiological processes, functional morphology, symbioses, interactions of organisms with biotic and abiotic environments, and animal behavior.

A preliminary proposal is due to NSF by January 16, 2015.

NSF

Long Term Research in Environmental Biology

http://www.nsf.gov/pubs/2014/nsf14507/nsf14507.htm?WT.mc_id=USNSF_25&WT.mc_ev=click

The Long Term Research in Environmental Biology Program supports the generation of extended time series of data to address important questions in evolutionary biology, ecology, and ecosystem science. Research areas include, but are not limited to, the effects of natural selection or other evolutionary processes on populations, communities, or ecosystems; the effects of interspecific interactions that vary over time and space; population or community dynamics for organisms that have extended life spans and long turnover times; feedbacks between ecological and evolutionary processes; pools of materials such as nutrients in soils that turn over at intermediate to longer time scales; and external forcing functions such as climatic cycles that operate over long return intervals.

Preliminary proposals are due by January 30, annually. Invited full proposals are due by August 1, annually.

NSF

Perception, Action, and Cognition http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5686

This program supports research on perception, action, and cognition, with emphasis on research strongly grounded in theory. Central research topics for consideration include vision, audition, haptic, attention, memory, reasoning, written and spoken discourse, and motor control.

Multiple submission deadlines apply. See the program website for details.

Mathematics and Physical Sciences

NSF

Geobiology and Low-Temperature Geochemistry <http://www.nsf.gov/pubs/2009/nsf09552/nsf09552.htm>

The Geobiology and Low-Temperature Geochemistry Program supports research on 1) the interactions between biological and geological systems at all scales of space and time; 2) geomicrobiology and biomineralization processes; 3) the role of life in the transformation and evolution of the Earth's geochemical cycles; 4) inorganic and organic geochemical processes occurring at or near the Earth's surface now and in the past, and at the broad spectrum of interfaces ranging in scale from planetary and regional to mineral-surface and supramolecular; 5) mineralogy and chemistry of soils and sediments; 6) surficial chemical and biogeochemical systems and cycles and their modification through natural and anthropogenic change; and 7) development of tools, methods, and models for low-temperature geochemistry and geobiological research - such as those emerging from molecular biology - in the study of the terrestrial environment.

The full proposal deadline dates are January 16 and July 16, annually.

NSF

Geomorphology and Land Use Dynamics

http://www.nsf.gov/pubs/2014/nsf14550/nsf14550.htm?WT.mc_id=USNSF_25&WT.mc_ev=click

Geomorphology and Land-use Dynamics supports innovative research into processes that shape and modify landscapes over a variety of length and time scales. The program encourages research that investigates quantitatively the coupling and feedback among such processes, their rates, and their relative roles, especially in the contexts of variation in climatic, biologic, and tectonic influences and in light of changes due to human impact.

The full proposal deadlines are July 16 (annually) and January 16 (annually).

NSF

GeoPrisms Program http://www.nsf.gov/pubs/2014/nsf14556/nsf14556.htm?WT.mc_id=USNSF_179

GeoPRISMS will investigate the coupled geodynamics, earth surface processes, and climate interactions that build and modify continental margins over a wide range of timescales. These interactions cross the shoreline and have applications to margin evolution and dynamics, construction of stratigraphic architecture, accumulation of economic resources, and associated geologic hazards and environmental management.

The full proposal deadline is July 1, annually.

NSF

Mathematical Sciences Infrastructure Program http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=12756

The major aim of the Mathematical Sciences Infrastructure Program is to foster the continuing health of the mathematical sciences research community as a whole. Activities funded include working research sessions, such as conferences and symposia, as well as larger initiatives focused on enhancing and developing the mathematical sciences at the national scale. The program will also support a limited number of unsolicited training projects aimed at the undergraduate, graduate, or postdoctoral levels that include a core mathematical sciences research component for trainees.

For proposals that do not deal with training, full proposals are accepted anytime. For proposals that deal with training, the full proposal target date is the first Wednesday in December, annually.

NSF

Sedimentary Geology and Paleobiology <http://www.nsf.gov/pubs/2012/nsf12608/nsf12608.htm>

The Sedimentary Geology and Paleobiology Program supports research in a wide variety of areas in sedimentary geology and paleobiology in order to comprehend the full range of physical, biological, and chemical processes of Earth's dynamic system.

Multiple deadlines apply. See the solicitation for details.

Social Sciences**NSF**

Biological Anthropology Program - Doctoral Dissertation Research Improvement Grants

http://www.nsf.gov/pubs/2014/nsf14561/nsf14561.htm?WT.mc_id=USNSF_25&WT.mc_ev=click

The Biological Anthropology Program supports multifaceted research which advances scientific knowledge of human biology and ecology, including understanding of our evolutionary history and mechanisms which have shaped human and nonhuman primate biological diversity.

Multiple submission deadlines apply. See the solicitation for details.

NSF

Developmental and Learning Sciences

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=8671

The Developmental and Learning Sciences program supports fundamental research that increases our understanding of cognitive, linguistic, social, cultural, and biological processes related to children's and adolescents' development and learning. Research supported by this program will add to our basic knowledge of how people learn and the underlying developmental processes that support learning, social functioning, and productive lives as members of society.

The full proposal target dates are January 15 and July 15, annually.

NSF**Dynamics of Coupled Natural and Human Systems**

<http://www.nsf.gov/pubs/2014/nsf14601/nsf14601.htm>

The Dynamics of Coupled Natural and Human Systems Program (CNH) supports research projects that will advance basic scientific understanding about the complex interactions among biophysical and human systems. CNH also supports research coordination networks designed to enhance and expand research communities that focus on the dynamics of coupled natural and human systems.

The full proposal deadline is the third Tuesday in November, annually.

NSF**Geography and Spatial Sciences Program - Doctoral Dissertation Research Improvement Awards**

<http://www.nsf.gov/pubs/2014/nsf14538/nsf14538.htm>

The Geography and Spatial Sciences Program sponsors research on the geographic distributions and interactions of human, physical, and biotic systems on Earth.

The full proposal deadlines are the second Thursday in August, annually and the second Thursday in February, annually.

NSF**Linguistics**

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5408

The Linguistics Program supports basic science in the domain of human language, encompassing investigations of the grammatical properties of individual human languages, and of natural language in general. Research areas include syntax, semantics, morphology, phonetics, and phonology.

The full proposal target dates are January 15 and July 15, annually.

NSF**Social Psychology**

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5712

The Social Psychology Program supports basic research on human social behavior, including cultural differences and development over the life span. Among the many research topics supported are: attitude formation and change, social cognition, personality processes, interpersonal relations and group processes, the self, emotion, social comparison and social influence, and the psychophysiological and neurophysiological bases of social behavior.

The full proposal target date is January 15, 2015 (July 15 and January 15, annually thereafter).