**Announcements**

**IRB & IACUC TRAINING CHANGES & REQUIREMENTS:**

CITI Training will now be required for research involving animals and human subjects. This certification is good for three years. This training must be completed by your next correspondence with the IACUC or IRB (i.e. submitting a new application, a continuation report, or revision to an approved protocol).

Register here: [https://www.citiprogram.org/](https://www.citiprogram.org/)


Certification is verified online and certificates do not need to be submitted to the IRB/IACUC administrator.

**National Endowment for the Humanities - Grants Workshops in Southern California**

Mark Silver, Senior Program Officer in the Research Division at the NEH will conduct workshops in southern California in early February. Anyone interested in learning about NEH funding opportunities and application strategies is welcome to attend these public events.

University of California San Diego with Congressman Scott Peters
Monday, February 3rd, 2pm to 5pm
Contact: Sarah Czarnecki

CSU San Marcos
Tuesday, February 4th, 8:30am to 12:30pm
Click [HERE](#) to register.

If workshops are added for Northern California, OSP will send out a separate announcement.

**National Endowment for the Humanities - Nominations for the 2015 Jefferson Lecture in the Humanities**

Each year the National Endowment for the Humanities selects an outstanding scholar to deliver the Jefferson Lecture in the Humanities. The lectureship is the highest honor the federal government bestows for achievement in the humanities. Here is a list of previous Jefferson Lecturers.

NEH established the lecture in 1972 to honor the intellectual and civic virtues exemplified by Thomas Jefferson. The lectureship recognizes distinguished contributions to the humanities and provides an occasion for the lecturer to communicate the knowledge and wisdom of the humanities before a broad general audience. The lecturer is expected to give an original and substantive address that is of interest to both scholars and the lay public. The award carries a $10,000 honorarium, an amount that is set by statute in NEH's authorizing legislation.

In 2015 NEH will observe its 50th anniversary as an independent federal agency. To mark this occasion, we would welcome nominations of individuals who could speak to the enduring importance of the humanities to the nation.

Nominations must be received by **Sunday, February 2, 2014**.

The official announcement and description of this opportunity may be found on the funding agency's website: [http://www.neh.gov/about/awards/jefferson-lecture-nominations](http://www.neh.gov/about/awards/jefferson-lecture-nominations)
Request for Proposals

National Endowment for the Arts
NEA Literature Fellowships: Poetry, FY 2015
Deadline: March 12, 2014
http://arts.gov/grants-individuals/creative-writing-fellowships

The NEA Literature Fellowships program offers $25,000 grants in prose (fiction and creative nonfiction) and poetry to published creative writers that enable the recipients to set aside time for writing, research, travel, and general career advancement.

The NEA Literature Fellowships program operates on a two-year cycle with fellowships in prose and poetry available in alternating years. For FY 2015, which is covered by these guidelines, fellowships in poetry are available.

You may apply only once each year.

National Science Foundation
Faculty Early Career Development (CAREER) Program
Deadline(s):
- July 21, 2014 (BIO, CISE, EHR)
- July 22, 2014 (ENG)
- July 23, 2014 (GEO, MPS, SBE)
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503214

CAREER: The Faculty Early Career Development (CAREER) Program is a Foundation-wide activity that offers the National Science Foundation’s most prestigious awards in support of junior faculty who exemplify the role of teacher-scholars through outstanding research, excellent education and the integration of education and research within the context of the mission of their organizations. Such activities should build a firm foundation for a lifetime of leadership in integrating education and research. NSF encourages submission of CAREER proposals from junior faculty members at all CAREER-eligible organizations and especially encourages women, members of underrepresented minority groups, and persons with disabilities to apply.

PECASE: Each year NSF selects nominees for the Presidential Early Career Awards for Scientists and Engineers (PECASE) from among the most meritorious recent CAREER awardees. Selection for this award is based on two important criteria: 1) innovative research at the frontiers of science and technology that is relevant to the mission of the sponsoring organization or agency, and 2) community service demonstrated through scientific leadership, education or community outreach. These awards foster innovative developments in science and technology, increase awareness of careers in science and engineering, give recognition to the scientific missions of the participating agencies, enhance connections between fundamental research and national goals, and highlight the importance of science and technology for the Nation’s future. Individuals cannot apply for PECASE. These awards are initiated by the participating federal agencies. At NSF, up to twenty nominees for this award are selected each year from among the PECASE-eligible CAREER awardees who are most likely to become the leaders of academic research and education in the twenty-first century. The White House Office of Science and Technology Policy makes the final selection and announcement of the awardees.
The Discovery Research K-12 program (DRK-12) seeks to significantly enhance the learning and teaching of science, technology, engineering and mathematics (STEM) by preK-12 students and teachers, through research and development of innovative resources, models and tools (RMTs). Projects in the DRK-12 program build on fundamental research in STEM education and prior research and development efforts that provide theoretical and empirical justification for proposed projects. Teachers and students who participate in DRK-12 studies are expected to enhance their understanding and use of STEM content, practices and skills.

DRK-12 invites proposals that address immediate challenges that are facing preK-12 STEM education as well as those that anticipate radically different structures and functions of pre-K 12 teaching and learning. The DRK-12 program has four major research and development strands: (1) Assessment; (2) Learning; (3) Teaching; and (4) Implementation Research. The program recognizes that there is some overlap among the strands. Proposals may address more than one strand. For example, projects in the Learning Strand may also include assessments of student learning, and/or support for teachers and plans for larger dissemination and use. Likewise, the Teaching Strand has a specific focus on RMTs for teacher education and professional development, but these are often based on a particular curriculum or set of instructional materials or tools. The Implementation Research strand that replaces the Scale-up strand in the previous solicitation might potentially address any or a combination of the other three strands. The program supports three types of projects: (1) Exploratory, (2) Full Design and Development, and (3) Conferences, Workshops, and Syntheses. All three types of projects apply to each of the four DRK-12 strands.

Secondary Analyses of Strengthening Families Datasets (OPRE)
Deadline: May 14, 2014
http://www.acf.hhs.gov/hhsgrantsforecast/index.cfm?switch=grant.view&gff_grants_forecastInfoID=66887

The Office of Planning Research and Evaluation (OPRE) within the Administration for Children and Families (ACF) in the Department of Health and Human Services (HHS) plan to solicit applications for Secondary Analysis of Strengthening Families Data grants. The cooperative agreements will fund research to conduct secondary data analysis of the Building Strong Families (BSF), Supporting Healthy Marriage (SHM), and Community Healthy Marriage Initiative (CHMI) datasets. Successful applicants will demonstrate a familiarity with the proposed data for their analysis and an adequate understanding of the variables, sampling, methodology, etc. used to construct the dataset necessary for completion of the work proposed in the application. Proposed research should address topics relevant to strengthening families to improve the lives of children and parents and promote economic stability. Topics of interest include, but may not be limited to, mediators of relationship education programs, the measurement of relationship education and fatherhood with low-income families, or father involvement in low-income families. Click here for more information.

Applications and additional information will be posted on March 17, 2014.

Silberman Fund Faculty Grant Program (Social Work Education and Practice)
Deadline: April 30, 2014
http://www.socialservicegrants.org/grant.html

This year, the Silberman Fund at The New York Community Trust will fund projects that advance new knowledge and its application to social work education and practice in three important areas: (1) the changing role and place of males in American society; (2) the new poor, families affected by the recession and a widening income/wage gap and; (3) immigration, understanding and meeting the needs of diverse immigrant groups. Click here for more information.
Sexual assault, domestic violence, dating violence, and stalking are serious problems on college and university campuses. Congress created the Grants to Reduce Sexual Assault, Domestic Violence, Dating Violence, and Stalking on Campus Program (hereinafter referred to as the Campus Program) in recognition of the unique issues and challenges that colleges and universities face in preventing and responding to these crimes. The Campus Program was authorized under the Higher Education Amendments of 1998 and reauthorized in the Violence Against Women Act of 2000 and subsequent legislation.

The Campus Program encourages a comprehensive coordinated community approach that enhances victim safety, provides services for victims and supports efforts to hold offenders accountable. The funding supports activities that develop and strengthen services for sexual assault, domestic violence, dating violence, and stalking victims. Grant funds also support strategies to prevent, investigate, respond to and prosecute these crimes. The development of campus-wide coordinated responses involving campus victim service providers, law enforcement officers, health providers, housing officials, administrators, student leaders, faith-based leaders, representatives from student organizations, and disciplinary board members is critical. To be effective, campus responses must also link to local off-campus criminal justice agencies and service providers, including local law enforcement agencies, prosecutors’ offices, courts, and nonprofit, nongovernmental victim advocacy and victim services organizations.

Campuses are encouraged to create or revitalize large-scale efforts that treat sexual assault, domestic violence, dating violence, and stalking as serious offenses by adopting policies and protocols, developing victim services and programs that prioritize victim safety, ensuring offender accountability, and implementing effective prevention approaches. Colleges and universities should demonstrate to every student that sexual assault, domestic violence, dating violence, and stalking in any form will not be tolerated and have serious consequences, and that holistic services are available for victims of these crimes.

National Institutes of Health
Shared Instrumentation Grant Program (S10)
Deadlines:
- Pacific Internal Deadline: February 21, 2014
- Application Due Date: March 21, 2014

The ORIP Shared Instrument Grant (SIG) program encourages applications from groups of NIH-supported investigators to purchase or upgrade a single item of expensive, specialized, commercially available instrumentation or an integrated system that costs at least $100,000. The maximum award is $600,000. Types of instruments supported include, but are not limited to, confocal and electron microscopes, biomedical imagers, mass spectrometers, DNA sequencers, biosensors, cell-sorters, X-ray diffraction systems, and nuclear magnetic resonance (NMR) spectrometers among others.

There is no limit on the number of applications an institution may submit provided the applications are for different types of equipment.
The Interdisciplinary Behavioral and Social Science Research (IBSS) competition promotes the conduct of interdisciplinary research by teams of investigators in the social and behavioral sciences. Emphasis is placed on support for research that involves researchers from multiple disciplinary fields, that integrates scientific theoretical approaches and methodologies from multiple disciplinary fields, and that is likely to yield generalizable insights and information that will advance basic knowledge and capabilities across multiple disciplinary fields.

There are two types of projects that may be supported by IBSS:

- IBSS Large Interdisciplinary Research Projects (with maximum award sizes of $1,000,000)
- IBSS Interdisciplinary Team Exploratory Projects (with maximum award sizes of $250,000)

The National Aeronautics and Space Administration (NASA) Headquarters has released a solicitation, titled "Early Career Faculty (ECF)”, as an Appendix to the Space Technology Mission Directorate (STMD) NASA Research Announcement (NRA), titled "Space Technology Research, Development, Demonstration, and Infusion 2014 (SpaceTech-REDDI-2014)", on January 22, 2014.

STMD’s Space Technology Research Grants Program seeks proposals from accredited U.S. universities on behalf of faculty members beginning their independent careers. This Appendix is focused on supporting outstanding faculty researchers early in their careers as they conduct space technology research of high priority to NASA’s Mission Directorates. NASA is seeking proposals that plan to pursue innovative, early-stage space technology research in the topic areas specifically described in the Appendix. Our Nation’s universities couple fundamental research with education, encouraging a culture of innovation based on the discovery of knowledge. Universities are, therefore, ideally positioned to both conduct fundamental space technology research and diffuse newly-found knowledge into society at large through graduate students and industrial, government, and other partnerships. STMD investments in space technology research at U.S. universities will promote the continued leadership of our universities as an international symbol of the country’s scientific innovation, engineering creativity, and technological skill.

Only accredited U.S. universities are eligible to submit proposals on behalf of their outstanding new faculty members who intend to develop academic careers related to space technology. The proposed research project must be led by a single, eligible Principal Investigator (PI). The PI must be a recent Ph.D. recipient, defined as having graduated on or after January 1, 2007. The PI must be an untenured Assistant Professor on the tenure track at the sponsoring U.S. university at the time of award. The PI must be a U.S. citizen or have lawful status of permanent residency (i.e., holder of a U.S. Permanent Resident Card, also referred to as a Green Card). The PI may not be a current or former recipient of a Presidential Early Career Award for Scientists and Engineers (PECASE). The PI must be the primary researcher on the effort. Co-Investigators are not permitted. Collaborators are permitted. A PI may submit only one proposal in response to this Appendix. There is no limit on the number of proposals which may be submitted by an accredited U.S. university.
The Health and Air Quality application area is managing this solicitation. This application area supports the use of Earth observations in air quality management and public health, particularly regarding infectious disease and environmental health issues. The area addresses issues of toxic and pathogenic exposure and health-related hazards and their effects for risk characterization and mitigation. The area promotes uses of Earth observing data and models regarding implementation of air quality standards, policy, and regulations for economic and human welfare. The Health and Air Quality Applications area also addresses effects of climate change on public health and air quality to support managers and policy makers in their planning and preparations.

The Applied Sciences Program seeks results-oriented projects focused on the integration of Earth observations into decision making activities related to health and air quality. The objectives of a proposed project must be to a) develop and prove the potential enhancements of an application of specific Earth observations to one or more decision-making activity and b) transfer and enable the adoption of this application by one or more specific end user organizations in a sustainable manner (i.e., without continued NASA financial support post-project).

The Health and Air Quality (ROSES 2013) solicitation is managed by the Earth Science Applications Division.

Deadlines:
- Notice of Intent: February 27, 2014
- Proposals: April 24, 2014


National Science Foundation
Computing and Communication Foundations (CCF): Core Programs

Deadline(s):
- September 2, 2014 - September 19, 2014 (MEDIUM Projects)
- November 4, 2014 - November 19, 2014 (LARGE Projects)
- January 2, 2015 - January 17, 2015 (SMALL Projects)

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503220

CISE’s Division of Computing and Communication Foundations (CCF) supports research and education projects that develop new knowledge in three core programs:
- The Algorithmic Foundations program;
- The Communications and Information Foundations program; and
- The Software and Hardware Foundations program.

Proposers are invited to submit proposals in three project classes, which are defined as follows:
- Small Projects - up to $500,000 total budget with durations up to three years;
- Medium Projects - $500,001 to $1,200,000 total budget with durations up to four years; and
- Large Projects - $1,200,001 to $3,000,000 total budget with durations up to five years.

National Science Foundation
Service Enterprise Systems (SES)

Deadline(s): February 15, 2014; October 1, 2014

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13343

The SES program supports research on strategic decision making, design, planning and operation of commercial, nonprofit, and institutional service enterprises with the goal of improving their overall effectiveness and cost reduction. The program has a particular focus on healthcare and other similar public service institutions, and emphasizes research topics leading to more effective systems modeling and analysis as a means to improved planning, resource allocation, and policy development.
The STEM-C (Science, Technology, Engineering and Mathematics, including Computing) Partnerships program is a major research and development effort of two NSF Directorates, the Directorate for Education and Human Resources (EHR) and the Directorate for Computer and Information Science and Engineering (CISE), which supports innovative partnerships to improve teaching and learning in science, technology, engineering, and mathematics (STEM) disciplines. STEM-C Partnerships combines and advances the efforts of both the former Math and Science Partnership (MSP) and the former Computing Education for the 21st Century (CE21) programs. It is critical that our nation maintain a competent, competitive and creative STEM workforce, including teachers. Therefore, NSF aims to inspire and motivate the next generation of that workforce, while ensuring that it has the skills, competencies, and preparation to be successful. As we transition to a global, knowledge-based economy that is often driven by information technology and innovation, it is increasingly important that STEM workforce preparation includes a strong foundation in computing. Thus, the STEM-C Partnerships program addresses both the need for advances in K-12 STEM education generally, as well as the need to elevate the inclusion of computer science education.

From MSP, STEM-C Partnerships embraces any of the STEM disciplines—within the natural sciences, mathematics, engineering, or computer science—and maintains its commitment to institutional partnerships and opportunities for funding of Targeted proposals in one of four focal areas: Community Enterprise for STEM Teaching and Learning, Current Issues Related to STEM Content, Identifying and Cultivating Exceptional Talent, and K-12 STEM Teacher Preparation. From CE21, STEM-C Partnerships adds a discipline-specific focal area on the teaching and learning of computing and computational thinking, a strong commitment to broadening participation in computing, an emphasis on in-service teacher professional development, and support for the implementation of computer science courses at the high school level. It is expected that the merging of the MSP and CE21 programs will strengthen both and serve as a model for future incorporation of discipline-specific concerns into programs focused more broadly on STEM.

The STEM-C Partnerships program supports Partnerships that promote effective K-12 STEM education, building knowledge of teaching and learning in ways that deepen understanding and stimulate further exploration of STEM education in both in- and out-of-school settings. The Partnerships’ cross-disciplinary teams call upon the expertise and research perspectives of learning scientists, including cognitive scientists, educational, developmental and social psychologists, social scientists and education researchers, as well as STEM, discipline-specific teachers, faculty, researchers, and scientists. The Partnerships provide the context and environment for the effective preparation, professional development, and ongoing support of K-12 teachers. Changes at the undergraduate level related to the preparation of K-12 STEM teachers are an implicit expectation of the work; in this way, the STEM-C Partnerships is a K-16 endeavor. Projects are encouraged to look at scalable models of effective learning and professional development mediated, perhaps, by evolving computational devices and advances in cyberinfrastructure, as well as ongoing developments in models, resources, tools, and their applications to learning, content, delivery, and pedagogy. The program supports transformative research and its use by varied research, development, and implementation communities. The needs of a particular Partnership related to advancing the teaching and learning of any of the STEM disciplines at the K-12 level should drive the focus of the Partnership’s work. The inclusion of computer science, computational thinking, computational science or computing in K-12 STEM instruction is welcome, but not required.

All STEM-C Partnerships projects serve as models that have a sufficiently strong evidence/research base to improve STEM education outcomes for all students. The STEM-C Partnerships program requires institutional commitment to evidence-based teaching and learning which improves the achievement of all students studying STEM, with particular attention to educational practices that are effective for groups underrepresented in STEM—women, minorities (African-Americans, Hispanics, Native Americans, Alaska Natives, Native Hawaiians and other Pacific Islander territories), and students with disabilities.

Through this STEM-CP: CE21 solicitation, NSF seeks to support three types of awards. Broadening Participation and Education in Computing (BPEC) awards aim to build a rich knowledge base on the effective teaching and learning of computing skills and concepts, with particular attention to educational practices that are effective for students from underrepresented groups. CS 10K awards aim to develop the knowledge and evidence-based foundation needed to support the teaching of introductory rigorous, academic computing courses in high schools. STEM-C Partnerships Computer Science Education Expansion (CSE-Expansion) awards aim to expand the work of previously funded NSF MSP Partnerships to increase the number of qualified computer science teachers and the number of high schools with rigorous computer science courses.
CISE’s Division of Computer and Network Systems (CNS) supports research and education projects that develop new knowledge in two core programs:

- **Computer Systems Research (CSR) program**;
- **Networking Technology and Systems (NeTS) program**.

Proposers are invited to submit proposals in three project classes, which are defined as follows:

- Small Projects - up to $500,000 total budget with durations up to three years;
- Medium Projects - $500,001 to $1,200,000 total budget with durations up to four years; and
- Large Projects - $1,200,001 to $3,000,000 total budget with durations up to five years.

**National Science Foundation Accelerator Science**

**Deadline:** November 28, 2014


Particle accelerator systems have been key drivers for a broad array of fundamental discoveries and transformational scientific advances since the early 20th century. Since their inception, they have also been core components of U.S. technological innovation and economic competitiveness.

The Accelerator Science program will support and foster research at universities that exploits the educational and discovery potential of basic accelerator physics research, and allows the development of transformational discoveries in this crosscutting academic discipline. In particular, this program seeks to support research with the potential to disrupt existing paradigms and advance accelerator science at a fundamental level, such as enabling discoveries that lead to novel, compact, powerful, and/or cost-effective accelerators. Key questions that this program will address include: what are the fundamental limitations affecting the acceleration, control, intensity, and quality of particle beams? What novel approaches can be employed to substantially increase accelerating gradients? How can developments in other fields lead to new approaches in accelerator science and beam physics?

The goal of this program is to seed and support fundamental accelerator science at universities as an academic discipline, providing the foundation in knowledge and workforce upon which major advances in accelerator-driven technologies will be based. An important component of the program will be the support and training of the next generation of accelerator scientists, including students, postdoctoral researchers, and junior faculty, who will lead innovations in the field and will form the backbone of the nation’s highly trained accelerator workforce. Proposals for experimental, theoretical, and/or simulation-based research are welcome. Priority will be given to those proposals that enable the discovery science supported by the MPS Division of Physics.
The Elementary Particle Theory program encompasses different theoretical tools for understanding the interaction of elementary particles at different energy scales. These include String Theory, Quantum Field Theory, Lattice Field Theory, Effective Field Theories, and Phenomenology based on the above theoretical tools. The program supports both formal string theory as well as string-theory-inspired model building. However String Theory proposals which are primarily mathematical should consider applying to the Mathematical Physics program. Predictions for upcoming experiments at the LHC involve Supersymmetric Model building, Grand Unified Theories, Extra Dimensions, String Inspired phenomenology as well as high order calculations in the Standard Model (of strong weak and electromagnetic interactions) to sort out what new physics might be discovered at the next generation of accelerators and cosmic ray and neutrino detectors. High precision simulations of QCD processes using lattice gauge theory are also a crucial ingredient for understanding present and future experiments at various collider facilities. Certain aspects of formal string theory are supported in Mathematical Physics. Supported research includes contributions to broad theoretical advances as well as model building and applications to experimental programs at facilities such as RHIC and Jefferson Laboratory, and to astrophysical phenomena. This includes formulating new approaches for theoretical, computational, and experimental research that explore the fundamental laws of physics and the behavior of physical systems; formulating quantitative hypotheses; exploring and analyzing the implications of such hypotheses analytically and computationally; and, in some cases, interpreting the results of experiments. The effort also includes a considerable number of interdisciplinary grants.

In addition, the program supports infrastructure activities such as short- and long-term visitor programs, workshops, and research centers involving the participation of external scientists from universities, national laboratories, and industry, as well as graduate students and postdoctoral fellows.

The Astronomy and Astrophysics Research Grants (AAG) Program provides individual investigator and collaborative research grants for observational, theoretical, laboratory and archival data studies in all areas of astronomy and astrophysics, including but not limited to the following areas of study:

- **Planetary Astronomy**: Studies of Solar System and extrasolar planets; the detailed characterization, structure and composition of the surfaces, interiors, and atmospheres of planets and satellites; the nature of small bodies (asteroids, comets, and Kuiper-belt objects); the inter-planetary medium; and the origin, formation, and development of the Solar System and other planetary systems.

- **Stellar Astronomy and Astrophysics**: Studies of the structure and activity of the Sun and other stars; the physical properties and composition of all types of single and multiple stars; compact objects and their interactions; star formation and stellar evolution; stellar nucleosynthesis; and the properties of atoms and molecules of relevance to stellar astronomy.

- **Galactic Astronomy**: Studies on the composition, structure and evolution of the Milky Way Galaxy and nearby galaxies. Research may focus on the stellar populations in these galaxies; the characteristics of star clusters; the interstellar medium; and the properties of atomic and molecular constituents of the interstellar medium.

- **Extragalactic Astronomy and Cosmology**: Studies of the Universe beyond our Galaxy. Research topics include galaxy formation, evolution and interaction; active galaxies; quasars; the intergalactic medium; large-scale structure; and all areas of cosmology.

Proposals submitted to the AAG Program do not require categorization into one of the study areas identified above. Proposals may span multiple disciplines and/or areas of study and may utilize multiple techniques. Please contact the program officer in your thematic area if you have any questions about proposal preparation and submission.
The Mathematical Biology Program supports research in areas of applied and computational mathematics with relevance to the biological sciences. Successful proposals are mathematically innovative and address challenging problems of interest to members of the biological community.

Projects may include development of mathematical concepts and tools traditionally seen in other disciplinary programs within the Division of Mathematical Sciences, e.g., topology, probability, statistics, and computation, etc. To receive appropriate and timely review, such proposals should be submitted directly to the relevant disciplinary program that has the earliest deadline, but they will be considered for co-review by the Mathematical Biology program, which may be selected as a secondary program. Note that proposals that use established mathematical, statistical, and computational tools to address problems in the biological sciences are typically not appropriate for consideration by the disciplinary programs within DMS. For further details on other disciplinary programs within the division, see the details of the program descriptions.

In general, if a proposal is appropriate for review by more than one disciplinary program within the Division of Mathematical Sciences, it is advisable to contact the program officers handling each program to determine when the proposal should be submitted and to facilitate the review process. Usually, it is most appropriate to submit in line with the earliest program deadline. If proposals are appropriate for co-review, but are not received in time to include them in the review process for all programs, then they may considered by only a subset of the programs or may be returned without review. In addition, the Mathematical Biology Program interacts with every division in the NSF Directorate of Biological Sciences, as well as with multiple divisions within the Directorate for Engineering, and its interests overlap those of the programs within these divisions. Mathematical Biology regularly seeks joint reviews of proposals with programs in the Directories of Biological Sciences and Engineering. Investigators are encouraged to discuss their project with program officers in both areas to determine if it should be considered for co-review.

The Applied Mathematics program supports mathematics research motivated by or having an effect on problems arising in science and engineering. Mathematical merit and novelty, as well as breadth and quality of impact on applications, are important factors. Proposals to develop critical mathematical techniques from individual investigators as well as interdisciplinary teams are encouraged.

The NSF's Computational Mathematics program supports mathematical research in areas of science where computing plays a central and essential role, emphasizing algorithms, numerical methods, and symbolic methods. The prominence of computation in the research is a hallmark of the program. Proposals ranging from single-investigator projects that develop and analyze innovative computational methods to interdisciplinary team projects that not only create new mathematical and computational techniques but use them to model, study, and solve important application problems are encouraged.
The Biomaterials program supports fundamental materials research related to (1) biological materials, (2) biomimetic, bioinspired, and bioenabled materials, (3) synthetic materials intended for applications in contact with biological systems, and (4) the processes through which nature produces biological materials. Projects are typically interdisciplinary and may encompass scales from the nanoscopic to the bulk. They may involve characterization, design, preparation, and modification; studies of structure-property relationships and interfacial behavior; and combinations of experiment, theory, and/or simulation. The emphasis is on novel materials design and development and discovery of new phenomena.

Projects involving in vitro demonstration of biological compatibility and efficacy are appropriate, but the program can support only limited in vivo studies. Tissue engineering and drug/gene delivery projects must have a specific focus on fundamental materials development and characterization. Studies of the mechanical behavior of hard and soft biological materials and tissues and projects in molecular biophysics may be more appropriate for one or more of the NSF programs listed below under Related Programs. Projects with an emphasis on device design and fabrication are generally more appropriate for a program in the NSF Engineering Directorate.

The Environmental Health and Safety of Nanotechnology (Nano EHS) program provides support to develop and test the environmental effects of nanotechnologies. Fundamental research is sought to understand, evaluate, and mitigate the impact of nanotechnology on the environment and biological systems.

The program emphasizes engineering principles underlying the environmental health and safety impacts of nanotechnology. Innovative methods related to production processes, waste reduction, recycling, and industrial ecology of nanotechnology are of interest.

Transformative research in the area of nanoEHS includes the following:
- Understanding, measuring, mitigating, and preventing adverse effects of nanotechnology on the environment and biological systems
- Nanotechnology environmental health and safety impacts
- Predictive methodology for the interaction of nanoparticles with the environment and with the human body, including predictive approaches for toxicity
- Fate and transport of engineered nanoparticles and their by-products
- Risk assessment and management of the effect of nanomaterials in the environment

Proposals may address methods to characterize and quantify the release of nanomaterials from intermediate materials or finished products during use or disposal scenarios.
American Cancer Society
Area of Special Interest: The Role of Healthcare and Insurance in Improving Outcomes in Cancer Prevention, Early Detection and Treatment
Deadline: April 1, 2014

Purpose: To stimulate research that will generate new knowledge of the effects of the US healthcare system structure and the role of insurance on both access to and outcomes of cancer screening, early detection and treatment services. Studies investigating how one or more factors impacting access and outcomes interact – such as insurance status, costs, capacity, personal characteristics, provider characteristics, components of the healthcare delivery system and other known factors – are encouraged.

Potential areas of investigation include (but are not limited to):

1. How the structure and capacity of the healthcare system affect appropriate and timely access to cancer screening, early detection, treatment and palliative care services.

2. The provider and system factors that affect treatment patterns and quality of cancer care within the current healthcare systems.

3. The exploration of life course patterns of the entire spectrum of cancer care (from prevention and screening through diagnosis, treatment, survivorship, and supportive/palliative care) by linking diverse data sources for broad patient populations.

Robert Wood Johnson Foundation
Public Health Law Research
Deadline: April 15, 2014

The Robert Wood Johnson Foundation (RWJF) seeks to build the evidence for and increase the use of effective regulatory, legal and policy solutions—whether statutes, regulations, case law or other policies—to protect and improve population health and the public health system. This program contributes to the Foundation’s commitment to creating a culture of health in our country by providing the best possible evidence and examples of the impact of legal strategies on health.

Robert Wood Johnson Foundation
State Health Access Reform Evaluation
Deadline: February 13, 2014

State Health Access Reform Evaluation (SHARE) is a RWJF national program that supports rigorous research on issues surrounding state health reform. The SHARE program is managed by the State Health Access Data Assistance Center (SHADAC), an RWJF-funded research center in the Division of Health Policy and Management, School of Public Health, University of Minnesota. To learn more about the history of SHARE and about the impact and implications of SHARE-funded research to date, visit http://www.shadac.org/SHAREProgramOverview.

Researchers, as well as practitioners and public and private policy-makers working with researchers, are eligible to submit proposals through their organizations. Projects may be generated from disciplines including health services research, economics, sociology, program evaluation, political science, public policy, public health, public administration, law, business administration, or other related fields.
National Science Foundation
Smart and Connected Health (SCH)
Deadline(s):
• October 10, 2014; (EXP) Proposals
• December 10, 2014; (INT) Proposals
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504739

The goal of the Smart and Connected Health (SCH) Program is to accelerate the development and use of innovative approaches that would support the much needed transformation of healthcare from reactive and hospital-centered to preventive, proactive, evidence-based, person-centered and focused on well-being rather than disease. Approaches that partner technology-based solutions with biobehavioral health research are supported by multiple agencies of the federal government including the National Science Foundation (NSF) and the National Institutes of Health (NIH). The purpose of this program is to develop next generation health care solutions and encourage existing and new research communities to focus on breakthrough ideas in a variety of areas of value to health, such as sensor technology, networking, information and machine learning technology, decision support systems, modeling of behavioral and cognitive processes, as well as system and process modeling. Effective solutions must satisfy a multitude of constraints arising from clinical/medical needs, social interactions, cognitive limitations, barriers to behavioral change, heterogeneity of data, semantic mismatch and limitations of current cyberphysical systems. Such solutions demand multidisciplinary teams ready to address technical, behavioral and clinical issues ranging from fundamental science to clinical practice.

The purpose of this interagency program solicitation is the development of next generation health and healthcare research through high-risk, high-reward advances in the understanding of and applications in information science, technology, behavior, cognition, sensors, robotics, bioimaging, and engineering. Collaboration between academic, industry, non-profit and other organizations is strongly encouraged to establish better linkages between fundamental science, clinical practice and technology development, deployment and use. This solicitation is aligned with the visions (e.g., PCAST, NRC, IOM) calling for major changes in health and wellbeing as well as healthcare delivery and is aimed at the fundamental research to enable the change. Realizing the promise of disruptive transformation in health and healthcare will require well-coordinated, multi-disciplinary approaches that draw from the social, behavioral, and economic sciences, engineering, medicine, biology, and computer and information sciences.

Two classes of proposals will be considered in response to this solicitation
• Exploratory Projects (EXP): One or more investigators spanning 1 to 3 years.
• Integrative Projects (INT): Multi-disciplinary teams spanning 1 to 4 years.

Sierra Health Foundation Responsive Grants Program
Deadline: March 3, 2014
http://sierrahealthfoundation.cmail4.com/t/r-l-pvliut-tiqvyuit-d/

Now in its seventh year, the Responsive Grants Program continues to support projects that improve the health and well-being of people throughout our 26-county funding region. There are two funding rounds in 2014, with a total of $500,000 available.

Grants up to $15,000 are available to nonprofit organizations and public agencies. Projects servicing rural areas will receive at least 30 percent of the funding. Sierra Health will hold a proposers’ conference webinar on Feb. 5 from 10 a.m. to 11:30 a.m. Participation in the webinar is recommended, but not required.

Before approaching this funder, please contact Scott Biedermann, Corporate and Foundation Relations, 209.946.2166
National Institutes of Health
Fundamental Mechanisms of Affective and Decisional Processes in Cancer Control (U01)

Deadlines:
- Letter of Intent Due Date(s): 30 days before the application due date
- Application Due Date(s): June 10, 2014; October 15, 2014


The purpose of this Funding Opportunity Announcement (FOA) is to encourage projects to generate fundamental knowledge of affective processes. Basic affective science projects should have key downstream consequences for single (e.g., genetic testing consent) and multiple (e.g., adherence to oral chemotherapy regimen) event decisions and behaviors across the cancer prevention and control continuum. The FOA is expected to encourage scientific disciplines that have not traditionally conducted cancer research – such as affective and cognitive neuroscience, decision science, and consumer science – to elucidate perplexing and understudied problems in basic affective and decision sciences with promise of having downstream implications for cancer prevention and control science.

Application budgets are expected to differ, reflecting the actual needs of the proposed projects. It is anticipated and encouraged, however, that most requests remain between $250,000 and $450,000 per year direct costs commensurate with the scope and complexity of the proposed projects. In exceptional and well-justified circumstances, larger budgets may be requested but all requests must not exceed $700,000 direct costs per year. The scope of the proposed project should determine the project period. The maximum period is 5 years. The official announcement and description of this opportunity may be found on the funding agency's website:

Defense Advanced Research Projects Agency
Folded Non-Natural Polymers with Biological Function (Fold F(x))
Deadlines:
- White Papers are due by 4:00 p.m., (EST), February 6, 2014
- Full Proposals are due by 4:00 p.m. (EST), April 3, 2014

http://www.grants.gov/web/grants/view-opportunity.html?oppId=249776

The DARPA Fold F(x) program objective is to develop processes enabling the rapid synthesis, screening, sequencing and scale-up of folded, non-natural, sequence-defined polymers with expanded functionality. The program will specifically address the development of non-natural affinity reagents that can bind and respond to a selected target, as well as catalytic systems that can either synthesize or degrade a desired target. DARPA anticipates that successful efforts will include (1) novel synthetic approaches that yield large libraries (>10^9 members) of non-natural sequence-defined polymers; (2) flexible screening strategies that enable the selection of high affinity/specificity binders and high activity/selectivity catalysts from the non-natural libraries; (3) demonstration that the screening approach can rapidly (<4 days) yield affinity reagents or catalysts against targets of interest to the DoD; and (4) demonstration of scalability and transferability to the DoD scientific community.

Contact: Leah Vargas, Grants & Research Specialist  Phone: 209-946-3903  E-mail: lvargas@pacific.edu