Upcoming Funding Opportunities:
NOTE: All proposal titles are hyperlinked to program announcement

NSF Cyber-Physical Systems (CPS)
The goal of the CPS program is to develop the core system science needed to engineer complex cyber-physical systems upon which people can depend with high confidence. The program aims to foster a research community committed to advancing research and education in CPS and to transitioning CPS science and technology into engineering practice. By abstracting from the particulars of specific systems and application domains, the CPS program seeks to reveal cross-cutting fundamental scientific and engineering principles that underpin the integration of cyber and physical elements across all application sectors. To expedite and accelerate the realization of cyber-physical systems in a wide range of applications, the CPS program also supports the development of methods, tools, and hardware and software components based upon these cross-cutting principles, along with validation of the principles via prototypes and testbeds.

Projects & budgets:
1) “Breakthrough”: $500,000 up to 3 years;
2) “Synergy”: $500,001 - $1,000,000 for 3-4 years;
3) “Frontier”: $1,000,001 to $7,000,000 for 4-5 years.


NIST Measurement Science and Engineering (MSE) Research Grants Programs - Information Technology Laboratory (ITL) Grant Program
The ITL Grant Program provides financial assistance to support research in the broad areas of advanced network technologies, big data, cloud computing, computer forensics, information access, information processing and understanding, cybersecurity, health information technology, human factors and usability, mathematical and computational sciences, mathematical foundations of measurement science for information systems; a metrology infrastructure for modeling and simulation smart grid, software testing, and statistics for metrology.
ITL anticipates funding individual projects in the $10,000 - $500,000 range for up to 5 years.

Deadline: Applications will be considered on a continuing/rolling basis. Applications received after 5:00pm ET on Jun 2, 2014 may be processed and considered this year or next fiscal year.

NSF CISE-MPS Interdisciplinary Faculty Program in Quantum Information Science
This program is designed to promote research in the area of Quantum Information Science (QIS) by providing resources to allow QIS researchers and researchers from the computer and information science and engineering or mathematical and physical sciences disciplines to actively engage in joint research efforts, addressing problems at the interface between the mathematical and physical sciences and computer and information sciences through long-term visits by faculty to a host institution. While the primary intent of the program is to foster connections between scientists within the USA, proposals from scholars to visit institutions with outstanding QIS activities abroad will also be considered. In such cases the application should include as part of the Project Description what the host institution will provide and a plan of how the activity will foster the development of QIS research and education within the USA.

Awards limited to $250,000
Deadline: 03 Jun 2014 and 03 Dec 2014
NIH Research Project Grant Program (R01)
- Used to support a discrete, specified, circumscribed research project
- NIH's most commonly used grant program
- No specific dollar limit unless specified in FOA
- Advance permission required for $500K or more (direct costs) in any year
- Generally awarded for 3 - 5 years
- All Institutes and Centers utilize
Deadline: Jun 5, 2014

NIH Pathway to Independence (PI) Award (K99/R00)
- Provides up to five years of support consisting of two phases
- I - will provide 1-2 years of mentored support for highly promising, postdoctoral research scientists
- II - up to 3 years of independent support contingent on securing an independent research position
- Award recipients will be expected to compete successfully for independent R01 support from the NIH during the career transition award period
- Eligible Principal Investigators include outstanding postdoctoral candidates who have terminal clinical or research doctorates who have no more than 5 years of postdoctoral research training
- Foreign institutions are not eligible to apply
- PI does not have to be a U.S. citizen
Deadline: Jun 12, 2014

NIH R03 Small Grant Program
- Provides limited funding for a short period of time to support a variety of types of projects, including: pilot or feasibility studies, collection of preliminary data, secondary analysis of existing data, small, self-contained research projects, development of new research technology, etc.
- Limited to two years of funding
- Direct costs generally up to $50,000 per year
- Not renewable
- Utilized by more than half of the NIH ICs
Deadline Jun 16, 2014

NIH Exploratory/Developmental Research Grant Award (R21)
- Encourages new, exploratory and developmental research projects by providing support for the early stages of project development. Sometimes used for pilot and feasibility studies.
- Limited to up to two years of funding
- Combined budget for direct costs for the two year project period usually may not exceed $275,000.
- No preliminary data is generally required
- Most ICs utilize
Deadline: Jun 16, 2014
NIH R15 Academic Research Enhancement Award (AREA)
- Support small research projects in the biomedical and behavioral sciences conducted by students and faculty in health professional schools and other academic components that have not been major recipients of NIH research grant funds
- Eligibility limited (see [http://grants.nih.gov/grants/funding/area.htm](http://grants.nih.gov/grants/funding/area.htm))
- Direct cost limited to $300,000 over entire project period
- Project period limited to up to 3 years
- All NIH ICs utilize except FIC an NCMHD

Deadline: Jun 25, 2014

NSF Industry/University Cooperative Research Centers Program (I/UCRC)
The I/UCRC program develops long-term partnerships among industry, academe, and government. The centers are catalyzed by a small investment from NSF and are primarily supported by industry center members, with NSF taking a supporting role in the development and evolution of the center. Each center is established to conduct research that is of interest to both the industry members and the center faculty. An I/UCRC contributes to the nation's research infrastructure base and enhances the intellectual capacity of the engineering and science workforce through the integration of research and education. As appropriate, an I/UCRC uses international collaborations to advance these goals within the global context.

Deadline: Letter of intent June 27, 2014; full proposal September 26, 2014

NIH R13 and U13 Support for Conferences and Scientific Meetings
- Support for high quality conferences/scientific meetings that are relevant to NIH's scientific mission and to the public health
- Requires advance permission from the funding IC
- Foreign institutions are not eligible to apply
- Award amounts vary and limits are set by individual ICs
- Support for up to 5 years may be possible

Deadline: Aug 12, 2014

NSF Science, Technology, and Society (STS)
STS considers proposals for scientific research into the interface between science (including engineering) or technology, and society. STS researchers use diverse methods including social science, historical, and philosophical methods. Successful proposals will be transferrable (i.e., generate results that provide insights for other scientific contexts that are suitably similar). They will produce outcomes that address pertinent problems and issues at the interface of science, technology and society, such as those having to do with practices and assumptions, ethics, values, governance, and policy.

Deadline: 01 Aug 2014

NSF Grant Opportunities for Academic Liaison with Industry (GOALI)
GOALI promotes university-industry partnerships by making project funds or fellowships/traineeships available to support an eclectic mix of industry-university linkages. Special interest is focused on affording the opportunity for:

- faculty, postdoctoral fellows, and students to conduct research and gain experience in an industrial setting;
- industrial scientists and engineers to bring industry's perspective and integrative skills to academe; and
- interdisciplinary university-industry teams to conduct research projects.

This solicitation targets high-risk/high-gain research with a focus on fundamental research, new approaches to solving generic problems, development of innovative collaborative industry-university educational programs, and direct transfer of new knowledge between academe and industry. GOALI seeks to fund transformative research that lies beyond that which industry would normally fund.

**Budget:** 60-80 awards from $5,000,000

**Deadline:** Full proposals accepted anytime

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**NSF Core Techniques and Technologies for Advancing Big Data Science & Engineering (BIGDATA)**

The Core Techniques and Technologies for Advancing Big Data Science & Engineering (BIGDATA) solicitation aims to advance the core scientific and technological means of managing, analyzing, visualizing, and extracting useful information from large, diverse, distributed and heterogeneous data sets so as to: accelerate the progress of scientific discovery and innovation; lead to new fields of inquiry that would not otherwise be possible; encourage the development of new data analytic tools and algorithms; facilitate scalable, accessible, and sustainable data infrastructure; increase understanding of human and social processes and interactions; and promote economic growth and improved health and quality of life. The new knowledge, tools, practices, and infrastructures produced will enable breakthrough discoveries and innovation in science, engineering, medicine, commerce, education, and national security - laying the foundations for U.S. competitiveness for many decades to come.

**Small projects funded up to $250,000 per year up to 3 years**

**Mid-scale projects funded between $250,001 and $1,000,000 per year for up to 5 years**

**Deadline:** to be announced
Graduate Student Fellowship and Scholarship Opportunities:

U.S. DoE Energy Efficiency and Renewable Energy Science and Technology Policy (STP) Fellowships (SunShot Initiative Fellowships)
for Master’s or PhD graduates
Rolling application deadlines: May 31, 2014, September 30, 2014

The Facebook Fellowship program supports graduate students. Facebook is interested in a wide range of academic topics, including the following topical areas:
- Architecture,
- Compilers,
- Data Mining,
- Databases,
- Distributed Systems,
- Computer Vision & Graphics,
- Human-Computer Interaction,
- Internet Economics,
- Machine Learning,
- Natural Language Processing,
- Networking Operating Systems,
- Programming Languages, and
- Security & Privacy.
Deadline: 13 Dec 2014

Technical Minority Scholarship Program (Xerox Technical Minority Scholarship)
The scholarship is for qualified minorities enrolled in a technical degree program at the bachelor level or graduate levels.
Deadline: 30 Sep 2014

Applied Computer Security Associates Cybersecurity Scholarship
This $10,000 scholarship is for junior, senior, or graduate students majoring in computer science, software assurance, IS security, cyber security, or computer security.
Deadline 15 Feb 2015

Society of Women Engineers (SWE) Graduate Scholarships
Deadline: multiple

NSF International Research Experiences for Students (IRES)
Deadline: August 19, 2014
**Cyber Security Scholarships**
These scholarships will be awarded to students enrolled full-time in degree-granting programs in fields directly related to the support of U.S. intelligence or homeland security enterprises, and/or foreign languages.

**Deadline: November 1, 2014**

**East Asia and Pacific Summer Institutes for U.S. Graduate Students (EAPSI)**
NSF and selected foreign counterpart science and technology agencies sponsor international research institutes for U.S. graduate students in seven East Asia and Pacific locations at times set by the counterpart agencies between June and August each year. The Summer Institutes (EAPSI) operate similarly and the research visits to a particular location take place at the same time. Although applicants apply individually to participate in a Summer Institute, awardees become part of the cohort for each location. Applicants must propose a location, host scientist, and research project that is appropriate for the host site and duration of the international visit.

An EAPSI award provides U.S. graduate students in science, engineering, and education: 1) first-hand research experiences in Australia, China, Japan, Korea, New Zealand, Singapore, or Taiwan; 2) an introduction to the science, science policy, and scientific infrastructure of the respective location; and 3) an orientation to the society, culture, and language. It is expected that EAPSI awards will help students initiate professional relationships to enable future collaboration with foreign counterparts.

The NSF award includes participation in the Pre-Departure Orientation, summer stipend of $5,000, and roundtrip airplane ticket to the host location. EAPSI partner agencies pay in-country living expenses during the Summer Institutes.

**Deadline: November 13, 2014**

**Science, Mathematics and Research for Transformation (SMART) Scholarship for Service Program**
This program is an opportunity for students pursuing an undergraduate or graduate degree in Science, Technology, Engineering, and Mathematics (STEM) disciplines to receive a full scholarship and be gainfully employed upon degree completion.

**Deadline: December 16, 2014**