The Proposal Development unit within the Office of Sponsored Programs publishes this notice on a bi-weekly basis. If you are interested in any of the opportunities listed, and would like review/editing assistance with a proposal, please contact Carol Brodie at S-1328, carol.brodie@unlv.edu. However, for opportunities from foundations, please contact Caleen Johnson at S-2828, caleen.johnson@unlv.edu. Please see the Proposal Development website, http://www.unlv.edu/research/proposal for a complete list of our office’s services. An archive of these newsletters can be found at http://www.unlv.edu/research/archives

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**Announcements**

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*Note: A pre-proposal is required upon notification to OSP of interest. Contact carol.brodie@unlv.edu for pre-proposal requirements.

**Opportunities for Students**

UNLV’s Office of Undergraduate Research (OUR) has information on their website about research and funding opportunities for undergraduate students. Check them out here: http://www.unlv.edu/our

The Office of Sponsored Programs maintains a list of some financial resources for both graduate and undergraduate students: http://www.unlv.edu/research/financial-resources-graduate-and-undergraduate-students

**American Educational Research Association - Dissertation Grants**

http://www.aera.net/ProfessionalOpportunitiesFunding/FundingOpportunities/AERAGr...

With support from the National Science Foundation (NSF), the AERA Grants Program announces its Dissertation Grants competition. The program seeks to stimulate research on U.S. education issues using data from the large-scale, national and international data sets supported by the National Center for Education Statistics (NCES), NSF, and other federal agencies, and to increase the number of education researchers using these data sets. The program supports research projects that are quantitative in nature, include the analysis of existing data from NCES, NSF or other federal agencies, and have U.S. education policy relevance.

Dissertation Grants are available for advanced doctoral students and are intended to support the student while writing the doctoral dissertation. Applications are encouraged from a variety of disciplines, such as but not limited to, education, sociology, economics, psychology, demography, statistics, and psychometrics.

**Deadline:** August 25, 2016
Russell Sage Foundation - Improving Education and Reducing Inequality in the United States: Obtaining New Insights from Population-Based Academic Performance Data
http://www.russellsage.org/research/funding/improving-education-and-reducing-ine...

We seek research projects that deepen our understanding of educational opportunity and success in the United States by using data on academic achievement from the Stanford Education Data Archive constructed by Sean Reardon and colleagues (http://sedan.stanford.edu).

**New Data**
Using data on the results of over 200 million standardized achievement tests taken by roughly 40 million public school students from 2009 to 2013, Reardon and colleagues have constructed data files that provide estimates of the distribution of academic performance on a common scale in every public school district in the United States.

**Research Goals**
Studies that are able to plausibly identify the effects of policies, practices, and conditions on achievement inequality or the effects of achievement gaps on other outcomes and forms of inequality will be preferred over descriptive or correlational studies. We are particularly, though not exclusively, interested in studies aimed at understanding how to reduce inequality (educational inequality or subsequent forms of inequality).

Applicants can be doctoral students, postdoctoral fellows or faculty who received their Ph.D. on or after August 31, 2009. We are particularly interested in promoting racial/ethnic, gender and disciplinary diversity and strongly encourage applications from scholars who are underrepresented in the social sciences.

If you are interested in this opportunity, contact Caleen Johnson at 5-2828, caleen.johnson@unlv.edu

**Deadline:** August 11, 2016

American Psychological Association - APA Dissertation Research Award
http://www.apa.org/about/awards/scdir-dissertre.aspx
The purpose of the APA Science Directorate’s Dissertation Research Award program is to assist science-oriented doctoral students of psychology with research costs. The current program includes 30-40 grants of $1,000 each, along with several larger grants of up to $5,000 to students whose dissertation research reflects excellence in scientific psychology.

**Deadline:** September 15, 2016

**International Opportunities**

Department of State - Online Environmental Science Program
This project proposes a collaborative effort between a U.S.-based institution and an India-based institution to develop/design or use/modify previously created modules to provide online learning lessons in the area of air and/or water science. The implementing partners will also select an equal number of secondary high schools from the United States and the Kolkata Consular District in India (10-15) to participate in a semester-long program based on the established modules. High schools should be selected to match similar or same climes and environmental challenges when possible. Students should be selected to achieve gender parity.

**Deadline:** August 12, 2016

Department of State - Africa - Women, Peace, and Security (AF-WPS) Initiative FY 2016
The U.S. Department of State’s Bureau of African Affairs (AF) and the Secretary’s Office of Global Women’s Issues (S/GWI) announce this Notice of Funding Opportunity (NOFO) for projects under the Africa-Women, Peace, and Security (AF-WPS) initiative. Through AF-WPS, AF and S/GWI partner with key stakeholders to identify and support sustainable projects that demonstrate a strategic and integrated approach to increasing women’s full and active participation in peacemaking, peacebuilding, and reconstruction processes at the local, national, and/or regional levels in specified African countries. The Department seeks proposals from qualified organizations for sustainable projects in the following program areas:

- **Protection from Violence:** Projects respond to the distinct needs of women and children in conflict-affected disasters and crises, including measures to prevent and respond to gender-based violence (GBV) in conflict-affected environments; projects prevent—and protect women and children from—harm,
exploitation, discrimination, and abuse, including GBV and trafficking in persons, and strengthen
governments’ ability to hold perpetrators accountable in conflict-affected environments.

- **Participation in Peace Processes and Decision-making**: Projects improve the prospects for inclusive, just,
  and sustainable peace by promoting and strengthening women’s rights and effective leadership and
  substantive participation in peace processes, conflict prevention, peacebuilding, transitional processes,
  and decision-making institutions in conflict-affected environments.

Organizations should propose projects in one or more of the following focus countries:
- **Central Africa**: Burundi, Cameroon, Central African Republic, Chad, Democratic Republic of the Congo,
  Republic of the Congo, Rwanda
- **West Africa**: Burkina Faso, Côte d’Ivoire, Mali
- **East Africa**: Kenya, Madagascar, South Sudan, Sudan

**Deadline: July 22, 2016**

**Department of State - Lower Mekong Initiative (LMI) Nexus Futures Program**


The goal of the LMI Nexus Futures Program is to advance sustainable economic development, strengthen regional
integration, and build resiliency to the impacts of climate change in the Lower Mekong countries by strengthening
regional discussions (preferably within country-recognized/supported processes) to advance integrated planning
and development (focused on the water, energy, food and environment nexus) for the 3S sub-basin. To map
alternative approaches, the Nexus Futures Program will develop a sound, science-based nexus assessment to
identify potential tradeoffs and opportunities to maximize sustainable development outcomes. Where possible,
the Nexus Futures Program will seek to complement or leverage existing activities to advance sustainable basin
development in the Mekong Region. Programs such as the new LMI Sustainable Infrastructure Partnership can
serve to amplify Nexus Futures Program activities and outcomes and may offer opportunities for market uptake
and/or political endorsement.

**Deadline: August 1, 2016**

**Arts and the Humanities**

**Open Society - Fellowship**

[https://www.opensocietyfoundations.org/grants/open-society-fellowship](https://www.opensocietyfoundations.org/grants/open-society-fellowship)

The Open Society Fellowship was founded in 2008 to support individuals pursuing innovative and unconventional
approaches to fundamental open society challenges. The fellowship funds work that will enrich public
understanding of those challenges and stimulate far-reaching and probing conversations within the Open Society
Foundations and in the world.

For the current application round, the Open Society Fellowship invites proposals relevant to the following
propositions:

- Human rights are under siege everywhere. Why?
- Those who carry out human rights analysis and reporting have been seduced by legal frameworks and
  largely ignore imbalances of power that lead to rights violations.
- Political leaders increasingly play on fears that human rights are a Trojan Horse, threatening societies by
  promising rights to dangerous “others.”

These statements are intended as a provocation—to stimulate productive controversy and debate—and do not
necessarily represent the views of the Open Society Foundations. Applicants are invited to dispute, substantiate, or
otherwise engage with one or both of these statements in their submissions. Once chosen, fellows will work on
projects of their own design and passion. At the same time, they are expected to take advantage of the
considerable intellectual and logistical resources of the Open Society Foundations and contribute meaningfully to
the Foundations’ thinking. Fellows will also have opportunities to collaborate with one another as a cohort. It is
hoped that the fellowship will not only nurture theoretical debate but also bring about policy change and reform.

**Deadline: September 7, 2016**

**National Endowment for the Humanities - Public Humanities Projects**


Public Humanities Projects grants support projects that bring the ideas and insights of the humanities to life for
general audiences. Projects must engage humanities scholarship to illuminate significant themes in disciplines such
as history, literature, ethics, and art, or to address challenging issues in contemporary life. NEH encourages projects that involve members of the public in collaboration with humanities scholars or that invite contributions from the community in the development and delivery of humanities programming. This grant program supports a variety of forms of audience engagement. Applications should follow the parameters set out below for one of the following three formats:

**Community Conversations**: This format supports one- to three-year-long series of community-wide public discussions in which diverse residents creatively address community challenges, guided by the perspectives of the humanities.

**Exhibitions**: This format supports permanent exhibitions that will be on view for at least three years, or travelling exhibitions that will be available to public audiences in at least two venues in the United States (including the originating location).

**Historic Places**: This format supports the interpretation of historic sites, houses, neighborhoods, and regions, which might include living history presentations, guided tours, exhibitions, and public programs.

**Deadline**: August 10, 2016

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**Education, Business and Social Sciences**

**American Educational Research Association - Research Grants**  
[http://www.aera.net/ProfessionalOpportunitiesFunding/FundingOpportunities/AERAGr...](http://www.aera.net/ProfessionalOpportunitiesFunding/FundingOpportunities/AERAGr...)

AERA invites education-related research proposals using NCES, NSF, and other federal databases. Research Grants are available for faculty at institutions of higher education, postdoctoral researchers, and other doctoral-level scholars. Applications are encouraged from a variety of disciplines, such as but not limited to, education, sociology, economics, psychology, demography, statistics, and psychometrics.

The Governing Board for the AERA Grants Program has established the following four strands of emphasis for proposals. Applicants are encouraged to submit proposals that:

- develop or benefit from new quantitative measures or methodological approaches for addressing education issues
- include interdisciplinary teams with subject matter expertise, especially when studying science, technology, engineering and mathematics (STEM) learning
- analyze TIMSS, PISA, or other international data resources
- include the integration and analysis of more than one data set

Research projects related to at least one of the strands above and to science and/or mathematics education are especially encouraged.

**Deadline**: August 25, 2016

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**American Foundation for Suicide Prevention Focus Grant - Reaching 20×2025**  

This Focus Grant will be awarded to a researcher, or group of researchers, to study potential pathways and interventions that can significantly reduce the national suicide rate if ultimately implemented on a large scale.

*If you are interested in this opportunity, contact Caleen Johnson at 5-2828, [caleen.johnson@unlv.edu](mailto:caleen.johnson@unlv.edu)*

**Deadline**: August 1, 2016

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**Department of Education - Office of Postsecondary Education (OPE): Undergraduate International Studies and Foreign Language (UISFL) Program**  

The UISFL Program provides grants for planning, developing, and carrying out programs to strengthen and improve undergraduate instruction in international studies and foreign languages in the United States.

This notice contains two competitive preference priorities and two invitational priorities:

**Competitive Preference Priority 1.** (2 or 3 points) Applications from Minority-Serving Institutions (MSIs) (as defined in this notice) or community colleges (as defined in this notice), whether as individual applicants or as part of a consortium of institutions of higher education (IHEs) (consortium) or a partnership between nonprofit educational organizations and IHEs (partnership). An application from a consortium or partnership that has an MSI or community college as the lead applicant will receive more points under this priority than applications in which the MSI or community college is a member of a
A consortium or partnership must undertake activities designed to incorporate foreign languages into the curriculum of the MSI or community college and to improve foreign language and international or area studies instruction on the MSI or community college campus.

**Competitive Preference Priority 2.** (2 points) Applications from an institution of higher education (IHE), a consortium of institutions of higher education (consortium), or a partnership between nonprofit educational organizations and IHEs (partnership) that require entering students to have successfully completed at least two years of secondary school foreign language instruction or that require each graduating student to earn two years of postsecondary credit in a foreign language (or have demonstrated equivalent competence in the foreign language) or, in the case of a two-year degree granting institution, offer two years of postsecondary credit in a foreign language.

**Deadline: July 22, 2016**

**National Institutes of Health - The Health of Sexual and Gender Minority (SGM) Populations (R01, R03, R21, R15)**


The National Institutes of Health (NIH) is committed to supporting research that will increase scientific understanding of the health status of diverse population groups and thereby improve the effectiveness of health interventions and services for individuals within those groups. Priority is placed on understudied populations with distinctive health risk profiles. This funding opportunity announcement (FOA) focuses on sexual and gender minority (SGM) populations, including lesbian, gay, bisexual, transgender, and intersex populations. Basic, social, behavioral, clinical, and services research relevant to the missions of the sponsoring Institutes and Centers may be proposed. Although the above link utilizes the R01 mechanism, it runs in parallel with two program announcements of identical scientific scope: PA-15-262, for R03 Small Research Grants, and PA-15-263, which uses the exploratory/developmental (R21) grant mechanism. There is also an associated Academic Research Enhancement Award (AREA), PA-15-260.

**Deadlines:**

R01: February 5, June 5, October 5  
R03, R21: February 16, June 16, October 16  
R15: February 25, June 25, October 25  
AIDS Applications: January 7, May 7, September 7

**National Science Foundation - Restricted-Access Research Data Centers (RDCs)**

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505144

This solicitation invites proposals for the establishment of new Research Data Centers (RDCs). RDCs are secure Census Bureau facilities within which external researchers are given access to confidential micro data in accordance with specific statutory requirements. NSF will provide start-up costs for new RDC facilities. Potential investigators first must contact Census regarding the feasibility of sponsoring an RDC prior to submitting a proposal to NSF.

**Deadline: September 30, 2016**

**Russell Sage Foundation - Improving Education and Reducing Inequality in the United States: Obtaining New Insights from Population-Based Academic Performance Data**

http://www.russellsage.org/research/funding/improving-education-and-reducing-ine...

We seek research projects that deepen our understanding of educational opportunity and success in the United States by using data on academic achievement from the Stanford Education Data Archive constructed by Sean Reardon and colleagues (http://seda.stanford.edu).

**New Data**

Using data on the results of over 200 million standardized achievement tests taken by roughly 40 million public school students from 2009 to 2013, Reardon and colleagues have constructed data files that provide estimates of the distribution of academic performance on a common scale in every public school district in the United States.

**Research Goals**

Studies that are able to plausibly identify the effects of policies, practices, and conditions on achievement inequality or the effects of achievement gaps on other outcomes and forms of inequality will be preferred
over descriptive or correlational studies. We are particularly, though not exclusively, interested in studies aimed at understanding how to reduce inequality (educational inequality or subsequent forms of inequality).

Applicants can be doctoral students, postdoctoral fellows or faculty who received their Ph.D. on or after August 31, 2009. We are particularly interested in promoting racial/ethnic, gender and disciplinary diversity and strongly encourage applications from scholars who are underrepresented in the social sciences.

If you are interested in this opportunity, contact Caleen Johnson at 5-2828, caleen.johnson@unlv.edu

Deadline: Aug. 11, 2016

**National Institutes of Health - Advancing Basic Behavioral and Social Research on Resilience: An Integrative Science Approach (UG3/UH3)**


This FOA solicits applications that will elucidate mechanisms and processes of resilience within a general framework that emphasizes its dynamics and interactions across both time and scale, multiple contexts, multiple outcomes, and multiple time frames.

**Deadlines:**
Letter of Intent: November 1, 2016
Application: December 1, 2016

PAR-16-326 Expiration Date December 2, 2016

**Science, Mathematics and Engineering**

**National Science Foundation - Joint NSF/NIH Initiative on Quantitative Approaches to Biomedical Big Data (QuBBD)**

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505292

The Quantitative Approaches to Biomedical Big Data Program is designed to support research that addresses important application areas at the intersection of the biomedical and data sciences by encouraging inter- and multi-disciplinary collaborations that focus on innovative and transformative approaches to address these challenges.

**Deadlines:** September 28, 2016; September 12, 2017

**National Science Foundation - Focused Research Groups in the Mathematical Sciences (FRG)**

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5671

The purpose of the FRG activity is to allow groups of researchers to respond to recognized scientific needs of pressing importance, to take advantage of current scientific opportunities, or to prepare the ground for anticipated significant scientific developments in the mathematical sciences. Groups may include, in addition to mathematicians and statisticians, researchers from other science and engineering disciplines appropriate to the proposed research. The activity supports projects for which the collective effort by a group of researchers is necessary to reach the scientific goals. Projects should be scientifically focused and well-delineated. It is not the intent of this activity to provide general support for infrastructure. Projects should also be timely, limited in duration to up to three years, and substantial in their scope and impact.

**Deadline:** September 16, 2016

**National Institutes of Health - Technologies for Healthy Independent Living (R01, R21)**

Funding Agency:


This FOA encourages Research Project Grant (R01) applications for research and development of technologies that monitor health or deliver care in a real-time, accessible, effective, and minimally obtrusive way. These systems are expected to integrate, process, analyze, communicate, and present data so that the individuals are engaged and empowered in their own healthcare with reduced burden to care providers. The development of these technology systems has the potential to significantly improve the quality of life for people with disabilities, people aging with mild impairments, as well as individuals with chronic conditions.

Although this funding opportunity uses the R01 grant mechanism, it runs in parallel with a program announcement of identical scientific scope, PAR-14-119, for exploratory/developmental (R21) grants.

**Deadlines:**
Letter of Intent: 30 days before the receipt date
Application: September 23, 2016
AIDS Applications: January 7, 2017
Expires January 8, 2017

National Science Foundation - CyberCorps(R): Scholarship for Service (SFS) -- Defending America's Cyberspace
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504991
The CyberCorps(R): Scholarship for Service (SFS) program seeks proposals that address cybersecurity education and workforce development. This program provides educational opportunities for Undergraduate Students and Graduate Students. This program provides indirect funding for students at this level or focuses on educational developments for this group such as curricula development, training or retention.

The Scholarship Track provides funding to award scholarships to students in cybersecurity.

The Capacity Track seeks innovative proposals leading to an increase in the ability of the United States higher education enterprise to produce cybersecurity professionals.

Deadlines:
September 15, 2016: Scholarship Track
December 15, 2016: Capacity Track

National Science Foundation - Restricted-Access Research Data Centers (RDCs)
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505144
This solicitation invites proposals for the establishment of new Research Data Centers (RDCs). RDCs are secure Census Bureau facilities within which external researchers are given access to confidential micro data in accordance with specific statutory requirements. NSF will provide start-up costs for new RDC facilities. Potential investigators first must contact Census regarding the feasibility of sponsoring an RDC prior to submitting a proposal to NSF.

Deadline: September 30, 2016

National Science Foundation - Division of Integrative Organismal Systems (Core Programs)
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503623
Proposals are welcomed in all of the core scientific program areas supported by the Division of Integrative Organismal Systems. Proposals may be submitted to the two tracks described in this solicitation. All investigator-initiated proposals submitted to the Core track must now be invited based on merit review of preliminary proposals. There is a single submission deadline with a limit of 2 preliminary proposals per investigator per year as PI or Co-PI in response to the Core track of this solicitation. Please see the GPG for definition of roles for PI and Co-PI. There are no limits on the number of proposals you can participate on as collaborator. These PI/Co-PI limits do not apply to full proposals submitted to the EDGE track of this solicitation, which has no PI or Co-PI limits on number of proposals submitted.

Core Track Deadlines:
- Preliminary Proposal: January 20, 2017
- Full Proposal: TBA

EDGE Track Deadlines:
- Letter of Intent (required): April 28, 2017
- Full Proposal: June 07, 2017

National Science Foundation - Computer and Network Systems (CNS): Core Programs
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=12765
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

Deadlines:
- MEDIUM Projects: September 16, 2016
- LARGE Projects: September 26, 2016
**National Science Foundation - Computing and Communication Foundations (CCF): Core Programs**

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 (AF) program
- The Communications and Information Foundations (CIF) program
- The Software and Hardware Foundations (SHF) program

Deadlines:

MEDIUM Projects: **September 16, 2016**
LARGE Projects: **September 26, 2016**
SMALL Projects: **November 18, 2016**

**National Science Foundation - Information and Intelligent Systems (IIS): Core Programs**

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13707

CISE’s Division of Information and Intelligent Systems (IIS) supports research and education projects that develop new knowledge in three core programs:

- The Cyber-Human Systems (CHS) program
- The Information Integration and Informatics (III) program
- The Robust Intelligence (RI) program

Proposals in the area of computer graphics and visualization may be submitted to any of the three core programs described above.

Deadlines:

MEDIUM Projects: **September 16, 2016**
LARGE Projects: **September 26, 2016**
SMALL Projects: **November 18, 2016**

**National Science Foundation - Secure and Trustworthy Cyberspace (SaTC)**

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504709

The Secure and Trustworthy Cyberspace (SaTC) program welcomes proposals that address cybersecurity from: a Trustworthy Computing Systems (TWC) perspective and/or a Social, Behavioral and Economic Sciences (SBE) perspective; the Secure, Trustworthy, Assured and Resilient Semiconductors and Systems (STARSS) perspective; or the Transition to Practice (TTP) perspective. In addition, we welcome proposals that integrate research addressing all of these perspectives (see the Program Description below).

Deadlines:

MEDIUM Projects: **September 16, 2016**
LARGE Projects: **September 26, 2016**
SMALL Projects: **November 18, 2016**
CYBERSECURITY EDUCATION Projects: **December 16, 2016**

**National Science Foundation - Dear Colleague Letter: NSF/NSFC Joint Research on Environmental Sustainability Challenges**


The NSF Engineering Directorate (ENG) and the National Natural Science Foundation of China (NSFC) Department of Engineering and Material Sciences (DEMS) are partnering to encourage joint research by U.S. - China teams collaborating on fundamental research that addresses critical environmental sustainability challenges. The U.S. and China have the two largest economies on Earth and also have important engineering, technology, business and trade relationships with each other. Both nations face significant environmental sustainability challenges, for example in water and energy, urban sustainability, and manufacturing. Fundamental research is needed to provide the foundational knowledge for addressing these challenges. This call is for research proposals from joint U.S. - China teams in two environmental sustainability topic areas:

- Topic 1. Combustion Related to Sustainable Energy
- Topic 2. Urban Water Sustainability
National Science Foundation, Division of Mathematical Sciences - Combinatorics
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503570
The Combinatorics program supports research on discrete structures and includes algebraic, enumerative, existential, extremal, geometric, and probabilistic combinatorics, including graph theory.
Deadline: October 4, 2016

Department of Defense - Qubits in Silicon BAA
http://www.grants.gov/web/grants/view-opportunity.html?oppId=285229
The U.S. Army Research Office (ARO) in collaboration with the National Security Agency (NSA) is soliciting proposals for research in multi-qubit operations in silicon. Several silicon-based quantum computing research groups have demonstrated control of single qubits using a number of different physical implementations. Investigations have spanned qubits realized in single electrons or nuclear spins to encoded qubits in systems of multiple spins. However, demonstrations of multi-qubit control in silicon are nascent. The goal of this BAA is to solicit research that would accelerate the development of multi-qubit systems in silicon, advance understanding of the multi-qubit environment that affects high-fidelity qubit operations, and development of optimal approaches to single and two-qubit control in a multi-qubit system. There are two types of proposals with different research scope covered in this announcement:
1. Multi-qubit operations in silicon
2. Contributions to high-fidelity silicon qubits
Deadlines:
White Papers: August 9, 2016
Proposals: October 21, 2016

Department of Energy - Next-Generation Transformers – Flexible Designs
http://www.grants.gov/web/grants/view-opportunity.html?oppId=284451
The objective of this Funding Opportunity Announcement (FOA) seeks to stimulate innovative large power transformer (LPT) designs that promote greater standardization (i.e., commoditization) to increase grid resilience (i.e., faster recovery through greater interchangeability) in the event of the loss of one or more LPTs. The term LPT is broadly used to describe a power transformer with a maximum nameplate rating of 100 megavolt-amperes (MVA) or higher. In addition to the capacity rating, voltage ratings are often used to describe different classes of power transformers, such as extra high voltage (EHV), 345 to 765 kilovolts (kV); high voltage, 115 to 230 kV; medium voltage, 34.5 to 115 kV; and distribution voltage, 2.5 to 35 kV. A power transformer with a capacity rating greater than or equal to 100 MVA typically has a voltage rating of greater than or equal to 115 kV on the high side.
Deadline: July 24, 2016

Department of Energy - ENERGY-EFFICIENT LIGHT-WAVE INTEGRATED TECHNOLOGY ENABLING NETWORKS THAT ENHANCE DATACENTERS (ENLITENED)
http://www.grants.gov/web/grants/view-opportunity.html?oppId=284531
To overcome metal interconnect limitations on future datacenter energy-efficiency performance, ENLITENED will target the critical packaging and integration challenges needed to exploit the inherent performance advantages of dense photonic interconnects and switching technology at the chip-scale within datacenters. Specifically, ENLITENED will target packaging and integration of novel and efficient photonics-enabled hardware systems that can demonstrate at least a 2-fold increase in energy efficiency at the datacenter level. To validate hardware solutions, ENLITENED will also entail modeling and simulation of the new datacenter architectures and data traffic protocols under realistic workloads, to provide quantifiable measures to validate transformative design strategies for future datacenters and retrofits.
Deadline for Concept Papers: July 25, 2016

Department of the Interior - Science and Technology Program Pitch to Pilot Project
http://www.grants.gov/web/grants/view-opportunity.html?oppId=284554
Through this Funding Opportunity Announcement (FOA), the U.S. Department of the Interior (DOI), Bureau of Reclamation (Reclamation), is accepting applications for projects to be funded by the Science and Technology (S&T) Program. Through this program, Reclamation is forming partnerships with private industry, universities, water utilities, and others to address a need for innovative new technologies and processes in the area of water treatment. Reclamation is interested in new, innovative technologies and processes that have gone past the idea
and bench scale phase and are ready to go into development of prototypes and pilot scale systems to be tested with real waters. The main objectives of this FOA are:

- Develop innovative new technology or process at the pilot scale to treat brackish groundwater at a less energy intensive way than current processes and technologies
- Develop innovative new technology or process at the pilot scale to reduce the high cost, energy usage, and environmental impacts of concentrate management for inland desalination
- Develop innovative new technology or process for pretreatment of reverse osmosis without increasing the total cost and energy usage of current systems

The technical review of applications submitted under this FOA will be conducted in two phases. In phase 1, all applications will be scored against the evaluation criteria in Section V.B. “Evaluation Criteria” by an Application Review Committee (ARC) comprised of experts in relevant disciplines. The ARC will make recommendations for a select group of applications to proceed to Phase 2. Phase 2 applicants will be invited to discuss their proposal during an in-person meeting with the final judging panel at the Brackish Groundwater National Desalination Research Facility (BGNDRF) in Alamogordo, NM. The selected Phase 2 applicants will have the opportunity to prepare for travel and are expected to be at BGNDRF from October 19-20, 2016.

**Deadlines:**
- Phase 1: **July 27, 2016**
- Phase 2: **October 19-20, 2016** at BGNDRF

**Defense Advanced Research Projects Agency - Magnetic Miniaturized and Monolithically-Integrated Components (M3IC)**

http://www.grants.gov/web/grants/view-opportunity.html?oppId=284693

The DARPA Microsystems Technology Office is soliciting innovative research proposals to develop integrated magnetic components on semiconductor substrates that will reduce size and enable new functionality for U.S. Department of Defense (DoD) electromagnetic (EM) systems. Proposals will focus on one or more of the following technical areas: 1) integration of magnetic components on semiconductor substrates, 2) modeling the system-level impact of nonlinear, non-reciprocal, time-dependent magnetic phenomena, and 3) optimization of miniaturized microwave magnetic components. Specifically excluded is research that primarily results in evolutionary improvements to the existing state of practice.

**Deadline:** **August 1, 2016**

**Mizutani Foundation for Glycoscience - Research Grants**

http://www.mizutanifdn.or.jp/grant/apply.html

Mizutani Foundation for Glycoscience invites grant applications for basic and applied studies in the field of glycoscience.

**If you are interested in this opportunity, contact Caleen Johnson at S-2828, caleen.johnson@unlv.edu**

**Deadline:** **September 1, 2016**

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**Medical/Health/Behavioral Sciences**

**National Institutes of Health - Healthy Habits: Timing for Developing Sustainable Healthy Behaviors in Children and Adolescents (R01,R21)**


This Funding Opportunity Announcement (FOA) seeks to encourage applications that employ innovative research to identify mechanisms of influence and/or promote positive sustainable health behavior(s) in children and youth (birth to age 21). Applications to promote positive health behavior(s) should target social and cultural factors, including, but not limited to: schools, families, communities, population, food industry, age-appropriate learning tools and games, social media, social networking, technology and mass media. Topics to be addressed in this announcement include: effective, sustainable processes for influencing young people to make healthy behavior choices; identification of the appropriate stage of influence for learning sustainable lifelong health behaviors; the role of technology and new media in promoting healthy behavior; identification of factors that support healthy behavior development in vulnerable populations, identification of barriers to healthy behaviors; and, identification of mechanisms and mediators that are common to the development of a range of habitual health behaviors. Given the many factors involved in developing sustainable health behaviors, applications from multidisciplinary teams are strongly encouraged. The ultimate goal of this FOA is to promote research that identifies and enhances
processes that promote sustainable positive behavior or changes social and cultural norms that influence health and future health behaviors. Although the above link uses the R01 mechanism, it runs in parallel with a program announcement of identical scientific scope, **PA-14-176**, which uses the exploratory/developmental (R21) grant mechanism.

**Deadlines:**
- **R01:** February 5, June 5, October 5
- **R21:** February 16, June 16, October 16
- **AIDS Applications:** January 7, May 7, September 7

**National Institutes of Health - Innovative Questions in Symptom Science and Genomics (R01, R15, R21)**


This initiative seeks to optimize innovation, insight and cutting edge conceptual and technological breakthroughs by catalyzing research that emanates from the identified innovative questions in symptom and genomic nursing science. These innovative questions are reflective of broad domains from which more specific novel hypotheses or problems to be solved can be derived. The above link is for the R01; Companion FOAs are:
- **PA-16-022**, R15 Academic Research Enhancement Award (AREA)
- **PA-16-023**, R21 Exploratory/Developmental Grant

**Deadlines:**
- **R01:** February 5, June 5, October 5
- **R21:** February 16, June 16, October 16
- **R15:** February 25, June 25, October 25
- **AIDS Applications:** January 7, May 7, September 7

**National Institutes of Health - The Health of Sexual and Gender Minority (SGM) Populations (R01, R03, R21, R15)**


The National Institutes of Health (NIH) is committed to supporting research that will increase scientific understanding of the health status of diverse population groups and thereby improve the effectiveness of health interventions and services for individuals within those groups. Priority is placed on understudied populations with distinctive health risk profiles. This funding opportunity announcement (FOA) focuses on sexual and gender minority (SGM) populations, including lesbian, gay, bisexual, transgender, and intersex populations. Basic, social, behavioral, clinical, and services research relevant to the missions of the sponsoring Institutes and Centers may be proposed.

Although the above link utilizes the R01 mechanism, it runs in parallel with two program announcements of identical scientific scope: **PA-15-262**, for R03 Small Research Grants, and **PA-15-263**, which uses the exploratory/developmental (R21) grant mechanism. There is also an associated Academic Research Enhancement Award (AREA), **PA-15-260**.

**Deadlines:**
- **R01:** February 5, June 5, October 5
- **R03, R21:** February 16, June 16, October 16
- **R15:** February 25, June 25, October 25
- **AIDS Applications:** January 7, May 7, September 7

**National Institutes of Health - NIDDK Research Education Program Grants for Curriculum Development (R25)**


The NIH Research Education Program (R25) supports research education activities in the mission areas of the NIH. The over-arching goal of this NIDDK Research Education R25 program is to support educational activities that complement and/or enhance the training of a workforce to meet the nation’s biomedical, behavioral and clinical research needs. To accomplish this goal, this FOA will support creative educational activities that propose the development of novel curricula or methods in the research areas relevant to the NIDDK.

**Deadlines:** January 25, May 25, September 25

**AIDS Applications:** January 7, May 7, September 7
National Institutes of Health - NIDDK Research Education Program Grants for Summer Research Experiences (R25)
The NIH Research Education Program (R25) supports research education activities in the mission areas of the NIH. The over-arching goal of this NIDDK Research Education R25 program is to support educational activities that complement and/or enhance the training of a workforce to meet the nation’s biomedical, behavioral and clinical research needs. To accomplish the stated over-arching goal, this FOA will support creative educational activities that propose summer research experiences in the research areas relevant to the NIDDK.
Deadlines: January 25, May 25, September 25
AIDS Applications: January 7, May 7, September 7

National Institutes of Health - NIDDK Research Education Program Grants for Courses for Skills Development (R25)
The NIH Research Education Program (R25) supports research education activities in the mission areas of the NIH. The over-arching goal of this NIDDK Research Education R25 program is to support educational activities that complement and/or enhance the training of a workforce to meet the nation’s biomedical, behavioral and clinical research needs. To accomplish this goal, this FOA will support creative educational activities that propose courses for skills development in the research areas relevant to the NIDDK.
Deadlines: January 25, May 25, September 25
AIDS Applications: January 7, May 7, September 7

National Institutes of Health - Cancer Research Education Grants Program - Courses for Skills Development (R25)
The NIH Research Education Program (R25) supports research education activities in the mission areas of the NIH. The over-arching goal of this NCI R25 program is to support educational activities that complement and/or enhance the training of a workforce to meet the nation's biomedical, behavioral and clinical research needs. To accomplish the stated over-arching goal, this FOA will support creative educational activities with a primary focus on Courses for Skills Development. Applications are encouraged that propose innovative, state-of-the-art programs that address the cause, diagnosis, prevention, and treatment of cancer, rehabilitation from cancer, and the continuing care of patients and the families of patients, in accordance with the overall mission of the NCI.
Deadlines: January 25, May 25, September 25
AIDS Applications: January 7, May 7, September 7

National Institutes of Health - Cancer Research Education Grants Program - Curriculum or Methods Development (R25)
The NIH Research Education Program (R25) supports research education activities in the mission areas of the NIH. The over-arching goal of this NCI R25 program is to support educational activities that complement and/or enhance the training of a workforce to meet the nation's biomedical, behavioral and clinical research needs. To accomplish the stated over-arching goal, this FOA will support creative educational activities with a primary focus on Curriculum or Methods Development. Applications are encouraged that propose innovative, state-of-the-art programs that address the cause, diagnosis, prevention, and treatment of cancer, rehabilitation from cancer, and the continuing care of patients and the families of patients, in accordance with the overall mission of the NCI.
Deadlines: January 25, May 25, September 25
AIDS Applications: January 7, May 7, September 7

National Institutes of Health - Cancer Research Education Grants Program - Research Experiences (R25)
The NIH Research Education Program (R25) supports research education activities in the mission areas of the NIH. The over-arching goal of this NCI R25 program is to support educational activities that complement and/or enhance the training of a workforce to meet the nation’s biomedical, behavioral and clinical research needs. To accomplish the stated over-arching goal, this FOA will support creative educational activities with a primary focus
on *Research Experiences*. Applications are encouraged that propose innovative, state-of-the-art programs that address the cause, diagnosis, prevention, and treatment of cancer, rehabilitation from cancer, and the continuing care of patients and the families of patients, in accordance with the overall mission of the NCI.

**Deadlines:** January 25, May 25, September 25
AIDS Applications: January 7, May 7, September 7

**National Institutes of Health - Secondary Analyses in Obesity, Diabetes and Digestive and Kidney Diseases (R21)**
This Funding Opportunity Announcement (FOA) encourages R21 applications that propose to conduct secondary analyses of existing data sets relevant to diabetes and selected endocrine and metabolic diseases including thyroid, parathyroid and Cushing’s diseases and acromegaly; and genetic metabolic disease including cystic fibrosis, lysosomal storage diseases, and disorders of the urea cycle; obesity, liver diseases, alimentary GI tract diseases and nutrition; kidney, urologic, and hematologic diseases. The goal of this program is to facilitate research that explores innovative hypotheses through the use of existing data sets.

**Deadlines:** February 16, June 16, October 16.
AIDS Deadlines: January 7, May 7, September 7

**Department of Defense - Tick-Borne Disease Research Program -- Idea Award**
The FY16 TBDRP Idea Award promotes new ideas that represent innovative approaches to Lyme disease and other tick-borne disease research and have the potential to make an important contribution to the TBDRP mission. This award funds conceptually innovative, high-risk/ potentially high-reward research in the early stages of development that could lead to critical discoveries or major advancements that will accelerate progress in improving outcomes for individuals affected by Lyme disease and/or other tick-borne illnesses. Applications should include a well-formulated, testable hypothesis based on strong scientific rationale that is established through logical reasoning and/or critical review and analysis of the literature. To meet the intent of the award mechanism, applications submitted to the FY16 TBDRP must address at least one of the following specific Focus Areas in Lyme disease and other tick-borne diseases:

- **Pathogenesis** ○ Host-pathogen interactions ○ Human immune response ○ Mechanisms of persistence of Lyme disease ○ New research tools to support studies of pathogenesis
- **Prevention** ○ Interrupting the natural cycle of the disease ○ Personal protection measures ○ Targeted vaccines ○ Post-exposure prophylaxis
- **Diagnosis** ○ Direct detection of tick-borne pathogens or their products in humans ○ Biomarkers for diagnosis
- **Treatment** ○ Innovative approaches to treatment ○ Basic studies aimed at safe and effective treatments for the cause(s) of persistent symptoms in Lyme disease ○ Biomarkers of effective prognosis, therapy, and cure

**Deadlines:**
- Pre-Application: August 3, 2016
- Invited Application: November 16, 2016

**Robert Wood Johnson Foundation - Optimizing Cost-of-Care Conversations Between Clinicians and Vulnerable Patients**
http://www.rwjf.org/en/library/funding-opportunities/2016/optimizing-cost-of-car...
This solicitation aims to fund studies that will test specific messages, best practices, and other principles to be incorporated in resources for improving the frequency and quality of cost-of-care conversations between clinicians and vulnerable patients. Funded studies will focus on testing a diverse range of approaches with diverse populations, which will ultimately help inform the development of tools, guides and resources to improve patient and clinician communication about costs and high-value care. RWJF is particularly interested in prioritizing studies that incorporate rapid testing, message research and high levels of consumer involvement, as opposed to an exclusive focus on extended scientific research and academic publication. The prioritization of rapid testing is a direct response to the imminent need for solutions for this problem. Funded studies will especially focus on preserving and enhancing trust between clinicians and vulnerable patients, given that RWJF sees this as a central
factor to improving cost-of-care communication. Finally, RWJF seeks to fund a range of projects across different types of vulnerable patients, types of care settings, and—to the extent possible—geographic areas.

If you are interested in this opportunity, contact Caleen Johnson at 5-2828, caleen.johnson@unlv.edu

**Deadline:** July 27, 2016

**Robert Wood Johnson Foundation - Integrating Cost-of-Care Conversation Resources into the Clinical Workflow**

http://www.rwjf.org/en/library/funding-opportunities/2016/integrating-cost-of-ca...

This solicitation seeks to establish best practices for how tools/resources that support cost-of-care conversations (e.g., cost estimator tools, conversation guides, financial questions) can be better embedded into the clinical workflow and patient/caregiver “life flow.” Funded studies will thus explore these best practices for workflow integration, to ultimately help inform the development and refinement of tools, guides and resources for improving patient and clinician communication around costs and high-value care. Ultimately, RWJF seeks to understand what best practices are needed, how health systems may need to act to respond to such needs, and the adaptive challenges they might face when doing so.

If you are interested in this opportunity, contact Caleen Johnson at 5-2828, caleen.johnson@unlv.edu

**Deadline:** July 27, 2016

**National Institutes of Health - mHealth Tools for Individuals with Chronic Conditions to Promote Effective Patient-Provider Communication, Adherence to Treatment and Self-Management (R01, R21)**


The purpose of this initiative is to stimulate research utilizing Mobile Health (mHealth) tools aimed at the improvement of effective patient–provider communication, adherence to treatment and self-management of chronic diseases in underserved populations. With the rapid expansion of cellular networks and substantial advancements in Smartphone technologies, it is now possible - and affordable - to transmit patient data digitally from remote areas to specialists in urban areas, receive real-time feedback, and capture that consultation in a database. These mHealth tools, therefore, may facilitate more timely and effective patient-provider communication through education communication around goal setting, treatment reminders, feedback on patient progress and may improve health outcomes. This announcement encourages the development, testing and comparative effective analysis of interventions utilizing mHealth technologies. There is also an interest in studying mHealth technologies in underserved populations.

Although the above link is for the R01 mechanism, it runs in parallel with a program announcement of identical scientific scope, [PA-14-181](http://grants.nih.gov/grants/guide/pa-files/PA-14-181.html), which uses the exploratory/developmental (R21) grant mechanism.

**Deadlines:**

R01: February 5, June 5, October 5

R21: February 16, June 16, October 16

AIDS Applications: January 7, May 7, September 7