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Of course, a lot depends on whether House GOP leaders are able to muster votes from the conservative Freedom Caucus, which says they'll consider the merits of each bill on its own. With larger and more contentious bills on the horizon, Republican leaders will have to hope those members like what they see.

New microbiome research initiative announced by OSTP

The White House Office of Science and Technology Policy (OSTP), in collaboration with Federal agencies and private-sector stakeholders, announced a new \$121 million research effort -- the National Microbiome Initiative (NMI) -- on May 13 designed to foster the integrated study of microbiomes across different ecosystems.

Microbiomes are the communities of microorganisms that live on or in people, plants, soil, oceans, and the atmosphere. Microbiomes maintain healthy function of these diverse ecosystems, influencing human health, climate change, food security, and other factors. Dysfunctional microbiomes are associated with issues including human chronic diseases such as obesity, diabetes, and asthma; local ecological disruptions such as the hypoxic zone in the Gulf of Mexico; and reductions in agricultural productivity.

Numerous industrial processes such as biofuel production and food processing depend on healthy microbial communities. Although new technologies have enabled exciting discoveries about the importance of microbiomes, scientists still lack the knowledge and tools to manage microbiomes in a manner that prevents dysfunction or restores healthy function.

The NMI aims to advance understanding of microbiome behavior and enable protection and restoration of healthy microbiome function. After a year-long fact-finding process, scientists from Federal agencies, academia, and the private sector converged on three recommended areas of focus for microbiome science, which are now the goals of the NMI:

- (1) **Supporting interdisciplinary research** to answer fundamental questions about microbiomes in diverse ecosystems.
- (2) **Developing platform technologies** that will generate insights and help share knowledge of microbiomes in diverse ecosystems and enhance access to microbiome data.
- (3) **Expanding the microbiome workforce** through citizen science, public engagement, and educational opportunities.

The NMI builds on strong and ongoing Federal investments in microbiome research, and will launch with a combined Federal agency investment of more than \$121 million in Fiscal Year (FY) 2016 and 2017 funding for cross-ecosystem microbiome studies.

This includes:

The **Department of Energy** proposes \$10 million in new funding in FY 2017 to support collaborative, interdisciplinary research on the microbiome.

The **National Aeronautics and Space Administration (NASA)** proposes \$12.5 million in new funding over multiple years to expand microbiome research across Earth's ecosystems and in space.

The

Addressing the application of the new rules to postdoctoral researchers, NIH Director Francis Collins and Labor Secretary Thomas Perez published a [blog](#) in Huffington Post saying that NIH will increase the awards for National Research Service Awards (NRSAs) to above the new income threshold. The current award level for NRSAs begin at \$43,692. NIH Deputy Director for Extramural Research Michael Lauer also posted a [blog](#)

state employees under state law, may provide their employees with comp time instead of cash payment for overtime hours

Postdoctoral researchers:

Sciences: Postdoctoral researchers in the sciences who engage only in research activities and do not teach are not covered by the teaching exemption. These employees are generally considered professional employees and are subject to the salary threshold for exemption from overtime.

Humanities: Many postdoctoral researchers in the humanities also teach. To the extent that they have a primary duty of teaching, they will be subject to the teaching exemption and not entitled to overtime compensation. If they do not teach, however, and earn less than the new threshold, they will be eligible for overtime.

of critical research and development programs, while reducing funding for lower-priority research.

National Oceanic and Atmospheric Administration – The legislation provides \$5.6 billion for NOAA, which is \$185 million below the 2016 funding level. Funding is targeted

technological enterprise. He said the science innovators and entrepreneurs would greatly benefit from reforms to the SBIR program. He also suggested that federal funds should be directed to investments in existing programs that focus on researching high performance computing, recruiting STEM talent and identifying high-skilled immigration.

The questions and comments from committee members focused on research prioritization. Sen. Jerry Moran (R-KS) asked the witnesses if all federal research should be treated equally. Atkinson said that all areas of research cannot be treated equally since some areas tend to have a greater economic impact than others. Moreover, Sen. Ed Markey (D-MA) stated that research funding decisions should be apolitical, and responsive to the needs and capabilities of science and technology.

Committee members also asked the witnesses about the role of the federal government and private industry in funding basic science research. Wing stated that the federal government has a duty to invest in basic research because it produces the talent needed to sustain science agencies and industry. Also, Droegemeier pointed out that the role of the federal government is essential because the profit returns of basic research are often uncertain, discouraging private industry from investing in its funding.

Members also asked questions and made comments on:

- x STEM workforce,
- x Increasing participation of underrepresented populations in science.
- x More effective coordination and management of federal research activities.

A video recording of this hearing can

The *Boost Saving for College Act* ([S 2869](#)) would provide a saver's tax credit to certain

The brief draws on data from several chapters of *Science and Engineering Indicators 2016* to highlight the higher education sector's importance as a catalyst for the nation's research enterprise and for the development of a workforce that makes the U.S. globally competitive. It makes the case that it is in the interest of all Americans—regardless of their personal educational aspirations—to ensure that these institutions thrive.

In its accompanying statement, the Board characterizes U.S. colleges and universities as “more important than ever to the future health, safety, security, and economic competitiveness of our nation.” Looking beyond the economic impacts, the Board also stresses some of the less quantifiable benefits noting that “higher education plays a broader, intangible, and crucial role in supporting the past, current, and future success of our democratic society.”

The Board's policy brief makes the case for prioritizing public support for the nation's institutions of higher education at a time when there are many worthy investments of limited public funds at the federal and state levels. In addition to highlighting some lesser-known contributions of U.S. colleges and universities, the brief draws attention to several threats facing this vital national resource. These include declining federal investments in academic research.

Federal funding of Research & Development at institutions of higher education has declined by 11 percent since 2011, the longest multiyear decline in federal funding in this data series that goes back to 1972. The report also documents recent declines in state funding for public colleges and universities and the concomitant rapid growth in net tuition, developments that the Board called attention to in its 2012 [report](#), *Diminishing Funding and Rising Expectations: Trends and Challenges for Public Research Universities*.

The goals of this event are to: (1) familiarize participants with DSO's mission; (2) promote understanding of the anticipated Office-wide BAA; and (3) facilitate discussions with potential DARPA performers.

The meeting can be attended in person or via webcast and pre-registration is required for both. More information is available at: <http://>,

Description: The PRMRP Investigator-Initiated Research Award is intended to support studies that will make an important contribution toward research and/or patient care for a disease or condition related to at least one of the Congressionally directed FY16 PRMRP Topic Areas. The rationale for a research idea may be derived from a laboratory discovery, population-

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Due Date: 7/21/2016

Funding: Total Program Funding: \$14,400,000

Website: <http://www.grants.gov/web/grants/view->

through FY15 totaled \$149.8 million (M). The FY16 appropriation is \$50M. The goal of the PRCRP is to improve quality of life by decreasing the impact of cancer on active duty Service members, their families, and the American public. The PRCRP is charged by Congress with the mission to investigate cancer risks and knowledge gaps that may be relevant to active duty Service members, their families, and other military beneficiaries.

Due Date: 9/13/2016

Funding: Total Program Funding: \$16,000,000

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=283062>

Agency: U.S. Department of Defense
Dept. of the Army -- USAMRAA

Program: DoD Peer Reviewed Cancer Career Development Award

Description: The PRCRP Career Development Award supports independent, early-career investigators to conduct impactful research with the mentorship of an experienced cancer researcher (i.e., the Designated Mentor) as an opportunity to obtain the funding, guidance, and experience necessary for productive, independent careers at the forefront of cancer research. This award supports impactful research projects with an emphasis on discovery. Under this award mechanism, the early-career investigator is considered the Principal Investigator (PI), and the application should focus on the PI's research and career development. It should be clear that the proposed research is intellectually designed by the PI and not a product of the Designated Mentor. Preliminary data are not required. However, logical reasoning and a sound scientific rationale for the proposed research must be demonstrated. Key elements of the award are as follows: • Principal Investigator: The PI must be an independent, early-career researcher or physician-scientist within 10 years after completion of his/her terminal degree (excluding time spent in residency or on family medical leave). Time s16 (y)16 [(c)4 (ar)7 (o -0.006 T17 (entm)-3 (e s)4 (p)10 (ent)]TJ 0

Agency: U.S. Department of Defense
Dept. of the Army -- USAMRAA

Program: DoD Peer Reviewed Cancer Idea Award with Special Focus

Description: The Idea Award with Special Focus supports innovative, untested, high-risk/potentially high-reward concepts, theories, paradigms, and/or methods in cancer research that are relevant to Service members, their families, Veterans, and other military beneficiaries. The “Special Focus” of this award mechanism is on exposures, conditions, or circumstances that are unique to the military, disproportionately represented in a military beneficiary population, or may affect mission readiness. Cancers or circumstances with cancer risk that may affect military families are of special importance to the care and well-being of the military for total mission readiness. The advancement of knowledge in cancer research, patient care, and/or treatment options in the military health system is critical to active duty Service members, their families, Veterans, other military beneficiaries, and the American public. The proposed research approach should be innovative. Innovative research may introduce a new paradigm, challenge existing paradigms, look at existing problems from new perspectives, or exhibit other highly creative qualities. The outcome of research supported by this award should be the generation of robust preliminary data that can be used as a foundation for future research projects to understand the mechanisms of initiation or progression of cancer, the quality of life during and following cancer treatment, etc. This award is not intended to support ongoing research in the applicant’s laboratory; therefore, inclusion of preliminary data other than serendipitous findings or in very small amounts is not consistent with the exploratory nature of this award.

Due Date: 9/13/2016

Funding: Total Program Funding: \$13,440,000

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=283060>

Agency: U.S. Department of Defense
Dept. of the Army -- USAMRAA

Program: DoD Psychological Health/Traumatic Brain Injury Cognitive Resilience and Readiness Research Award

Description: The FY16 PH/TBIRP CR3A seeks to support research that will increase our understanding of what and how key scientific and biomedical elements influence and correlate with cognitive skills assessment, enhancement, and training for Service members, and related specialty occupations. This Program Announcement/Funding Opportunity is focused on delivering solutions for Service member performance sustainment and health

protection and should demonstrate broader potential public use benefit of the research. Novel approaches which contribute to cognitive resilience and readiness are encouraged. Solutions that can be translated from laboratory environments and integrated into existing military training and practice with minimal disruption (noninvasive) to existing routine operations are encouraged. Both applied (preclinical) research and clinical trials within specific topic areas addressing the prevention of military-relevant psychological health issues and enhancement of operational performance are allowed.

Due Date: 9/7/20 lw 1.39to1.28 0 Td ()7 (anc)14 (e)-10 (ar)7 (2 Tw T* [(pc7 -30.07e -0.002 1c 0.09

Description: The intent of the NFRP New Investigator Award is to support the continued development of promising independent investigators and/or the transition of established investigators from other research fields into a career in the field of NF research. Prior experience in NF research is not required. However, Principal Investigators (PIs) with a limited background in NF research are strongly encouraged to have a collaborator who is experienced in the NF field. Research projects may focus on any phase of research, excluding clinical trials. Applications must include preliminary and/or published data that are relevant to NF and the proposed research project. Preclinical Research: All projects should adhere to a core set of standards for rigorous study design and reporting to maximize the reproducibility and translational potential of preclinical research. While these standards are written for preclinical studies, the basic principles of randomization, blinding, sample-size estimation, and data handling derive from well-established best practices in research and should be applied. For projects involving animal studies, applicants should consult the ARRIVE (Animal Research: Reporting In Vivo Experiments) guidelines to ensure relevant aspects of rigorous animal research are adequately planned for and, ultimately, reported.

Due Date: 8/1/2016

Funding: Total Program Funding: \$2,880,000

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=283687>

Agency: U.S. Department of Defense
Dept. of the Army -- USAMRAA

Program: DoD Neurofibromatosis Exploration-Hypothesis Development Award

Description: The NFRP Exploration – Hypothesis Development Award supports the initial exploration of innovative, high-risk, high-gain, and potentially groundbreaking concepts in NF research. Studies supported by this award mechanism are expected to lay the groundwork for future avenues of scientific investigation. The proposed research project s(i)16 <</MCID 4 >>BDC /CS1

NF. Research involving human subjects and human anatomical substances is permitted

Due Date: 8/1/2016

Funding: See Announcement

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=283669>

Agency: U.S. Department of Defense
Dept. of the Army -- USAMRAA

Program: Tuberous Sclerosis Complex Postdoctoral Development Award

Description: The TSCRCP Postdoctoral Development Award mechanism is being offered for the first time in FY16. The Postdoctoral Development Award supports recent doctoral or medical graduates to conduct impactful research with the mentorship of an experienced TSC researcher (i.e., Mentor). This opportunity allows for junior investigators to develop and investigate a TSC research project and further their intellectual development as a TSC researcher of the future. Under this award mechanism, the junior investigator is considered the Principal Investigator (PI), and the application should focus on the PI's research and TSC career development. It should be clear that the proposed research is intellectually

coupled partial differential equations (PDEs). The Accelerated Computation for Efficient Scientific Simulation (ACCESS) Program seeks innovative ideas for computational architectures that will achieve the equivalent of petaflops performance in a benchtop form-factor and be capable of what traditional architectures would define as “strong” scaling for predictive scientific simulations of interest. DARPA expects achieving these goals will require the parallel development of non-traditional component technologies exploiting novel hybrid analog/digital techniques, algorithms, instruction sets, controllers, and the integration and optimization of these components within prototype systems. Specifically excluded is research that primarily results in evolutionary improvements to the existing state of practice.

Due Date: 6/28/2016

Funding: See Announcement

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=283611>

Agency: U.S. Department of Defense
Air Force Office of Scientific Research

Program: Multidisciplinary Research Program of the University Research Initiative (FY17 AF SUBMISSION)

Description: The MURI program supports basic research in science and engineering at

Funding: Total Program Funding: \$60,000,000 Award Ceiling: \$7,500,000 Award Floor: \$1,500,000

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=283045>

Agency: U.S. Department of Energy
Office of Science

Program: Research, Development and Training in Isotope Production

Description: The Office of Nuclear Physics (NP), Office of Science (SC), U.S. Department of Energy (DOE), hereby announces its interest in receiving applications for Research and Development (R&D) on novel methods to produce radioactive or enriched stable isotopes needed for a wide variety of research and applications. This announcement is administered under the NP Isotope Development & Production for Research and Applications (IDPRA) Sub-Program. The proposed research and development should generate data relevant to isotope production or lead to new and innovative technologies, or improvements to existing technologies, to foster enhanced production of isotopes. Successful proposals will clearly describe how the outcome of the proposed work would support and enhance the production of isotopes used for research and applications in medicine, homeland security, the physical sciences, biological and geological sciences, energy, industry, etc. Applications incorporating effective ways to train personnel with essential knowledge and skills related to the production, processing, purification, and distribution of enriched stable and radioactive isotopes are strongly encouraged

Due Date: 7/1/2016

Funding: Total Program Funding: \$10,000,000 Award Ceiling: \$10,000,000

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=283293>

Agency: U.S. Department of Health and Human Services
National Institutes of Health

Program: BD2K Open Educational Resources for Skills Development in Biomedical Big Data Science (R25)

Description: The NIH Research Education Program (R25) supports research education activities in the mission areas of the NIH. The over-arching goal of this Big Data to Knowledge (BD2K) R25 program is to support educational activities that complement and/or enhance the training of a workforce to meet the nations biomedical, behavioral and clinical research needs.

Due Date: 8/2/2017

Funding: Total Program Funding: \$1,500,000 Award Ceiling: \$200,000

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=283968>

Agency: U.S. Department of Health and Human Services
National Institutes of Health

Program: Grants for Early Medical/Surgical Subspecialists' Transition to Aging Research (GEMSSTAR) (R03)

Description: The goal of the GEMSSTAR FOA is to provide support for early-stage physician-scientists, trained in medical or surgical specialties, to launch careers as future leaders in research on aging or in geriatrics. To achieve this goal, the GEMSSTAR FOA provides small grants to conduct transdisciplinary research on aging or in geriatrics research that will yield pilot data for subsequent aging- or geriatrics-focused research projects. As part of its focus on facilitating the development of early-stage physician-scientists who will become leaders in research on aging or in geriatrics, the GEMSSTAR FOA seeks to encourage the provision of supportive environments for candidates, and NIA will consider the extent to which a supportive environment is available to candidates in selecting GEMSSTAR candidates.

Due Date: 10/6/2016

Funding: Total Program Funding: \$1,700,000 Award Ceiling: \$75,000

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=283720>

Agency: U.S. Department of Health and Human Services
National Institutes of Health

Program: Centers of Research Translation (CORT) (P50)

Description: This announcement invites applications for Centers of Research Translation (CORT). Overall, a CORT research program could be carried out by a synergistic team of scientists who will address a highly significant translational research challenge in a single or a group of highly-related disease(s) or condition(s) within the mission of the NIAMS. The focus of research could be either 1) a disease-targeted translational theme addressed by synergistic Research Projects with optional Research Cores; or 2) a disease-related critical translational research question addressed through a single collaborative Research Project enabled by a number of highly interactive Research Cores whose work is integrated over time during the development and implementation of the Project. A

and one or more Research Cores. An Administrative Core is required in all
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genetics, diagnosis, treatment, and prevention of alcohol use disorders and their biomedical, psychosocial, and economic consequences across the lifespan. Centers also are regional or national resources that contribute to the development of new research methods, technologies and approaches that sustain innovative goal-directed research.

Due Date: 12/5/2016

Funding: Total Program Funding: \$1,150,000

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=283668>

Agency: U.S. Department of Health and Human Services
National Institutes of Health

Program: Growing Great Ideas: Research Education Course in Product Development and Entrepreneurship for Life Science Researchers (R25)

Description: The NIH Research Education Program (R25) supports research education activities in the mission areas of the NIH. The over-arching goal of this NIDA R25 program is to support educational activities that enhance the training of a workforce to meet the nations 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.

Due Date: 7/20/2016

Funding: See Announcement

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=283099>

Agency: U.S. Department of Health and Human Services
Administration for Community Living

Program: Disabil

research to identify or develop promising practices for serving and supporting parents with disabilities in the community, and by testing the effectiveness of at least one of these practices or interventions. The DRRP must also collect and/or analyze existing data to provide national estimates of the prevalence of parenting with a disability in the United States.

Due Date: 7/5/2016

Funding

multiple submissions of proposals with slight differences to several programs.

Due Date: 12/1/2016

Funding: See Announcement

Website: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=283841>

Agency: National Science Foundation

Program: NSF/DOE Partnership in Basic Plasma Science and Engineering

Description: Plasma Physics is a study of matter and physical systems whose intrinsic properties are governed by collective interactions of large ensembles of free charged particles. 99.9% of the visible Universe is thought to consist of plasmas. The underlying physics of the collective behavior in plasmas has applications to space physics and astrophysics, materials science, applied mathematics, fusion science, accelerator science, and many branches of engineering. The National Science Foundation (NSF), with participation of the Directorates for Engineering, Geosciences, and Mathematical and Physical Sciences, and the Department of Energy, Office of Science, Fusion Energy Sciences are continuing the joint Partnership in Basic Plasma Science and Engineering begun in FY1997 and renewed several times since. As stated in the original solicitation (NSF 97-39), which is superseded by the present solicitation, the goal of the initiative is to enhance basic plasma research and education in this broad, multidisciplinary field by coordinating efforts and combining resources of the two agencies. The current solicitation also encourages submission of proposals to perform basic plasma experiments at NSF and DOE supported user facilities, such as the Basic Plasma Science Facility at the University of California, Los Angeles and facilities located at DOE national laboratories, designed to serve the needs of the broader plasma community.

Due Date: 10/21/2016

Funding: Total Program Funding: \$3,500,000 Award Ceiling: \$250,000 Award Floor: \$25,000

Program: Political Science Doctoral Dissertation Research Improvement Grants (PS DDRIG)

Description: The Political Science Program supports scientific research that advances knowledge and understanding of citizenship, government, and politics. Research proposals are expected to be theoretically motivated, conceptually precise, methodologically rigorous, and empirically oriented. Substantive areas include, but are not limited to, American government and politics, comparative government and politics, international relations, political behavior, political economy, and political institutions. In recent years, program awards have supported research projects on bargaining processes; campaigns and elections, electoral choice, and electoral systems; citizen support in emerging and established democracies; democratization, political change, and regime transitions; domestic and international conflict; international political economy; party activism; political psychology and political tolerance. The Program also has supported research experiences for undergraduate students and infrastructural activities, including methodological innovations, in the discipline.

Due Date: 6/15/2016

Funding: Total Program Funding: \$700,000

Website: <http://www.nsf.gov/pubs/2015/nsf15571/nsf15571.htm>

Agency: National Science Foundation

Program: Alliances for Graduate Education and the Professoriate (AGEP)

Description: The Alliances for Graduate Education and the Professoriate (AGEP) program seeks to advance knowledge about models to improve pathways to the professoriate and success for historically underrepresented minority doctoral students, postdoctoral fellows and faculty, particularly African Americans, Hispanic Americans, American Indians, Alaska Natives, Native Hawaiians, and Native Pacific Islanders, in specific STEM disciplines and/or STEM education research fields. New and innovative models are encouraged, as are models that reproduce and/or replicate existing evidence-based alliances in significantly different disciplines, institutions, and participant cohorts. The AGEP program goal is to increase the number of historically underrepresented minority faculty, in specific STEM disciplines and STEM education research fields, by advancing knowledge about pathways to career success. The program objectives include: To support the development, implementation and study of innovative models of doctoral education, postdoctoral training, and faculty advancement for historically underrepresented minorities in specific STEM disciplines and/or STEM education research fields; and to advance knowledge about

the underlying issues, policies and practices that have an impact on the participation, transitions and advancement of historically underrepresented minorities in the STEM academy.

Due Date: 6/14/2016

Funding: Total Program Funding: \$6,000,000 to \$8,000,000

Website: <http://www.nsf.gov/pubs/2016/nsf16552/nsf16552.htm>

Agency: National Science Foundation

Program: Centers of Research Excellence in Science and Technology (CREST) and HBCU Research Infrastructure for Science and Engineering (RISE)

Description: The Centers of Research Excellence in Science and Technology (CREST) program provides support to enhance the research capabilities of minority-serving institutions (MSI) through the establishment of centers that effectively integrate education and research. MSIs of higher education denote institutions that have undergraduate enrollments of 50% or more (based on total student enrollment) of members of minority groups underrepresented among those holding advanced degrees in science and engineering fields: African Americans, Alaska Natives, American Indians, Hispanic Americans, Native Hawaiians, and Native Pacific Islanders. CREST promotes the development of new knowledge, enhancements of the research productivity of individual faculty, and an expanded presence of students historically underrepresented in science, technology, engineering, and mathematics (STEM) disciplines. CREST Postdoctoral Research Fellowship (PRF) awards provide research experience and

Program: US Ignite: Networking Research and Application Prototypes Leading to Smart & Connected Communities

Description: US Ignite is an initiative that seeks to promote US leadership in the development and deployment of next-generation gigabit applications with the potential for significant societal impact. The primary goal of US Ignite is to break a fundamental deadlock: there is insufficient investment in gigabit applications that can take advantage of advanced network infrastructure because such end-to-end infrastructure is rare and geographically dispersed. And conversely, there is a lack of broad availability of advanced broadband infrastructure for open experimentation and innovation because there are few advanced applications and services to justify it. US Ignite aims to break this deadlock by providing incentives for imagining, prototyping, and developing gigabit applications that address national priorities, and by leveraging and extending this network testbed across US college/university campuses and cities.

Due Date: 6/14/2016

Funding: Total Program Funding: \$10,000,000

Website: <http://www.nsf.gov/pubs/2016/nsf16553/nsf16553.htm>

Agency: National Science Foundation

Program: Division of Physics: Investigator-Initiated Research Projects (PHY)

Description: The Division of Physics (PHY) supports physics research and education in the nation's colleges and universities across a broad range of physics disciplines that span scales of space and time from the largest to the smallest and the oldest to the youngest. The Division is comprised of disciplinary programs covering experimental and theoretical research in the following major subfields of physics: Accelerator Science; Atomic, Molecular and Optical Physics; Computational Physics; Elementary Particle Physics; Gravitational Physics; Integrative Activities in Physics; Nuclear Physics; Particle Astrophysics; Physics of Living Systems; Plasma Physics (supported under a separate solicitation); and Quantum Information Science. Additional Information: The Physics Division strongly encourages single proposal submission for possible co-review rather than multiple submissions of proposals with slight differences to several programs.

Due Date: 10/26/2016

Funding: Total Program Funding: \$90,000,000

Website:

http://www.nsf.gov/pubs/2016/nsf16566/nsf16566.htm?WT.mc_id=USNSF_25&WT.mc_ev=click

Agency: National Science Foundation

Program: Computer and Information Science and Engineering (CISE) Research Initiation Initiative (CRII)

Description: With the goal of encouraging research independence immediately upon obtaining one's first academic position after receipt of the PhD, the Directorate for Computer and Information Science and Engineering (CISE) will award grants to initiate the course of one's independent research. Understanding the critical role of establishing that independence early in one's career, it is expected that funds will be used to support untenured faculty or research scientists (or equivalent) in their first three years in a primary academic position after the PhD, but not more than a total of five years after completion of their PhD. One may not yet have received any other grants or contracts in the Principal Investigator (PI) role from any department, agency, or institution of the federal government, including from the CAREER program or any other program, post-PhD, regardless of the size of the grant or contract, with certain exceptions noted below. Serving as co-PI, Senior Personnel, Postdoctoral Fellow, or other Fellow does not count against this eligibility rule. Grants, contracts, or gifts from private companies or foundations; state, local, or tribal governments; or universities do not count against this eligibility rule.

branches of engineering. The National Science Foundation (NSF), with participation of the Directorates for Engineering, Geosciences, and Mathematical and Physical Sciences, and the Department of Energy, Office of Science, Fusion Energy Sciences are continuing the joint Partnership in Basic Plasma Science and Engineering begun in FY1997

Description: The National Science Foundation Robert Noyce Teacher Scholarship Program seeks to encourage talented science, technology, engineering, and mathematics majors and professionals to become K-12 STEM teachers. The program invites creative and innovative proposals that address the critical need for recruiting and preparing highly effective K-12 STEM teachers, especially in high-need local educational agencies. The program offers four tracks: Track 1: The Robert Noyce Teacher Scholarships and Stipends Track, Track 2: