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Research Opportunities Compiled by:

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Opportunity #1

**Histology for Interface Stability over Time (HIST)
Department of Defense - DARPA - Microsystems Technology Office
DARPA-BAA-10-32**

Description: DARPA seeks to understand the failure mechanisms for in-vivo neural recording interfaces. This will involve thorough tissue assessment using current and potential materials and designs. Ultimately, DARPA desires to develop predictive models of failure, robust indicators of interface reliability, repeatable insertion methodologies, and high-throughput biological test techniques.

Link to Full Announcement:

<http://www.darpa.mil/mto/solicitations/index.html>

Opportunity #2

**Building Energy Efficiency Through Innovative Thermodevices (BEETIT)
Department of Energy
DE-FOA-0000289**

Description: The Advanced Research Projects Agency-Energy (ARPA-E) is a new agency of the Department of Energy. ARPA-E was authorized by the America COMPETES Act (PL 110-69) and charged with the mission to fund projects that will develop transformational technologies that reduce Americas dependence on foreign energy imports; reduce U.S. energy related emissions, including greenhouse gases; improve energy efficiency across all sectors of the U.S. economy; and ensure that the United States maintains its leadership in developing and deploying advanced energy technologies. Initially funded through the American Recovery and Reinvestment Act (PL 111-5), ARPA-E aims to support the development of high risk/high payoff applied science and technology innovations that will have a positive disruptive impact on the energy landscape. Buildings consume 40 percent of the primary energy in the United States, and account for 72 percent of the nation's electricity use and 55 percent of the nation's natural gas use. The objective of this funding opportunity announcement is to develop energy efficient cooling technologies/air conditioners (AC) for buildings to reduce GHG emissions from:

- (a) primary energy consumption due to space cooling; and
- (b) refrigerants used vapor compression systems. ARPA-E seeks innovative research and development approaches to increase energy efficiency and reduce emissions due to cooling of buildings by:
 - i. development of cooling systems that use refrigerants with low global warming potential of less than or equal to 1;
 - ii. development of energy efficient air conditioning (AC) systems for warm and humid climates to increase the coefficient of performance (COP) of ventilation load cooling by greater than or to 50 percent; and
 - iii. increased efficiency of hot climate vapor compression AC systems for re-circulating air loads by increasing the COP by greater than or equal to 50 percent.

One or more combination of these technologies can be utilized in buildings, where many factors influence the cooling load, including but not limited to:

- (1) type of building, such as office space versus hospitals (which have very high ventilation loads - almost 100 fresh air); and
- (2) climate type - warm and humid versus hot and dry.

Link to Full Announcement:

https://www.fedconnect.net/FedConnect/PublicPages/PublicSearch/Public_Opportunities.aspx

Opportunity #3

G8 Research Councils Initiative on Multilateral Research, Interdisciplinary Program on Application Software towards Exascale Computing for Global Scale Issues National Science Foundation Dear Colleague NSF 10-025

Dear Colleague: The Office of Cyberinfrastructure (OCI) and the Office of International Science and Engineering (OISE) announce a new G8 Research Councils Initiative on Multilateral Research, Interdisciplinary Program on Application Software towards Exascale Computing for Global Scale Issues . Through a pilot collaboration, the U.S. National Science Foundation, the Canadian National Sciences and Engineering Research Council (NSERC), the French Agence Nationale de la Recherche (ANR), the German Deutsche Forschungsgemeinschaft (DFG), the Japan Society for the Promotion of Science (JSPS), the Russian Foundation for Basic Research (RFBR), and the United Kingdom Research Councils (RC-UK), will support on a competitive basis, collaborative research projects that are comprised of researchers from at least three of the partner countries. Proposals will be jointly reviewed by the participating funding organizations and successful projects are expected to demonstrate added value through multilateral collaboration. Support for U.S.-based researchers will be provided through awards made by the National Science Foundation.

The Deutsche Forschungsgemeinschaft (DFG) will serve as the Call Secretariat and will maintain the official website at www.dfg.de/g8-initiative . Information specific to U.S. researchers will be posted at www.nsf.gov/od/oise/g8initiative/

Program Synopsis: Interdisciplinary Program on Application Software towards Exascale Computing for Global Scale Issues

Simulation supported by high performance computing infrastructures has become the third pillar of science complementary to experimentation and modeling. Major challenges of the 21st century such as climate change, energy, water, environment, or natural disasters can be addressed by high performance numerical and symbolic simulations that are both data and computer intensive . Computing resources required for these simulations, including improved model resolution, model physics, data analysis and visualization, will reach the exascale (10¹⁸ operations per second) level by 2020. However, taking full advantage of these resources for global scale scientific challenges will rely on application software featuring fundamentally new algorithms and data structures capable of exploiting the massive parallelism underlying future exascale level computing.

This international program aims at supporting collaborations between experts in research areas related to these global challenges and developers of future exascale platforms, so that they address together the relevant needs of the research community during the early design stages of emerging new computing systems.

Not only will such collaborations bring together global networks of experts on global topics, they will ensure the rapid and efficient application of new tools as they become available. Proposals for multilateral collaborations should therefore define milestones which can be seen as initial steps ultimately leading to the exascale capabilities. They are expected to focus on fundamental research and application issues that will address short-, intermediate-, and long-term goals, corresponding to (approximately) 10 petaflops in 2013, 100 petaflops in 2016 and 1 exaflop in 2019.

The program will support interdisciplinary projects targeting the exploration and development of open source algorithms and data operations that are resilient, sustainable and scalable to exascale for application solutions to socially relevant global scale issues. It is only through the close cooperation of scientific researchers working on global scale issues and by including computing, social and human factor scientists where appropriate, that future high performance computing systems can successfully be applied to tackle essential challenges for mankind in the 21st century.

Schedule:

- Preliminary Proposal Due Date to the Call Secretariat 7 May 2010
- Notification for Submission of Full Proposals 28 June 2010
- Full Proposals Due Date to Call Secretariat and NSF 25 August 2010
- Official Funding Decisions/Award February 2011

Funding Principles:

Within each selected consortium, funding of the participating researchers is provided by their respective national funding organization in accordance with their standard award terms and conditions. Funding is meant for

collaborative research, which may include clearly justified travel and workshops. The total budget for this call is approximately 10 million EUR over three years. Funding can be provided for projects lasting for two or three years and it is anticipated that 8-10 research consortia will be funded in this call.

NSF anticipates making awards at a level of approximately \$150,000 per award per year, pending the availability of funds. It is anticipated that awards will be made by February 2011.

Evaluation Criteria:

A successful proposal combines significant contributions of scientists from the partner countries and must show an interdisciplinary approach in addressing problems and goals within the scope of the described call theme. The proposal should conform to program aims and designated research fields. Proposals will be evaluated in accordance with the NSF review criteria of Intellectual Merit and Broader Impacts, with special emphasis on:

- Scientific quality and innovativeness of the joint research plan
- Sound project management, methodological approach, feasibility and appropriateness of the joint research plan
- Added value to be expected from the research collaboration
- Balanced cooperation
- Competence and expertise of teams and complementarities of consortium (interdisciplinary / inclusion of all necessary expertises)
- Appropriateness of resources and funding requested
- Expected impacts: e.g. scientific, technological, economic, societal
- Opportunities for early career researchers

Full proposals will be reviewed by ad hoc peer review and panel.

National Science Foundation Contacts:

- Dr. Rob Pennington, Program Director
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Italy will not be participating in this call for proposals.

The programme acknowledges a preliminary study of application needs and of the matching computing technologies, which was conducted through a series of international workshops ([20]www.exascale.org) held in 2009, gathering an international community of software specialists, application specialists and funding agencies to lay the groundwork for an international activity on exascale development.

Universities and Colleges - Universities and two- and four-year colleges (including community colleges) accredited in, and having a campus located in the US, acting on behalf of their faculty members. Such organizations also are referred to as academic institutions. NSF Grant Proposal Guide (GPG) NSF 10-1 January 2010

Link to Full Announcement:

http://www.nsf.gov/pubs/2010/nsf10025/nsf10025.txt?WT.mc_id=USNSF_179

Opportunity #4

MOU Between the National Science Foundation and Microsoft Corporation - NSF 10-027 National Science Foundation – Dear Colleague NSF 10-027

Dear Colleague: CISE and OCI announce an exciting new opportunity (see http://www.nsf.gov/news/news_summ.jsp?cntn_id=116336&org=NSF&from=news) for the science and engineering communities to conduct research and education activities in cloud computing and data-intensive computing, and their applications.

Through an MOU between Microsoft Corporation and the National Science Foundation, Microsoft will provide NSF supported-researchers access to Microsoft's Azure services platform, complementing the computational platforms that NSF has made available to the research community to date. In this letter we explain various funding mechanisms by which principal investigators may request support to use the Azure services platform.

This new agreement between Microsoft and NSF continues in the line of CISE's and OCI's support for data-intensive and cloud computing, and demonstrates our interest in promoting government-academia-industry partnerships. Through the FY08 Cluster Exploratory (CluE) program, CISE provided the NSF community access to a set of cloud-based software services supported by Google and IBM and access to another cluster supported by HP, Intel, and Yahoo housed at the University of Illinois at Urbana-Champaign. OCI's TeraGrid support includes a Condor pool at Purdue University. In FY09 CISE created the cross-cutting Data-intensive Computing Program to explore new ways to design, develop, use, and evaluate large cluster platforms and systems, especially to support data-intensive applications that require very large-scale clusters. OCI funded the Gordon system, an innovative platform for data-intensive computation, at the San Diego Supercomputing Center, and FutureGrid at Indiana University to conduct research in the area of grid and cloud computing.

The three cloud computing industry platforms and the FutureGrid platform that NSF is making accessible to the community differ dramatically in the software environments offered to users and the extent to which users can modify the software environment. The Microsoft platform adds to software diversity. Unlike the Google/IBM and HP/Intel/Yahoo clusters, which support the open source Hadoop programming interface, the Microsoft platform supports a Windows based programming interface. Like the Google/IBM cluster (and unlike the HP/Intel/Yahoo platform) users are not provided lower level access; users of the Microsoft platform will be limited to programming features supported by Azure.

With access to a new software infrastructure for cloud computing, we challenge the community to be creative in its use on its own right, in combination with other software and hardware infrastructure, and in the development of innovative applications that can exploit it. We encourage collaborations between computer scientists and other scientists and engineers, as many data intensive science and engineering applications can potentially benefit from new computing platforms such as the cloud.

CISE and OCI will offer funding for researchers to explore the use of the Microsoft Azure services platform via three mechanisms: supplemental funding to existing awards, Early-concept Grants for Exploratory Research (EAGER), and a forthcoming new program solicitation. All of these mechanisms will be used to support any kind of computing research and software development for any type of application associated with the Azure services platform, perhaps in combination with the use of other platforms.

Researchers may immediately submit a request for supplemental funding to any existing NSF award to the CCF division or to OCI, prefixing the title with "ASP: Supplement: ". Supplemental funding requests may request extension of an existing NSF award for an additional year. Supplemental funding requests should be submitted via FastLane no later than April 15, 2010 to ensure consideration in the current fiscal year. PIs are cautioned that the existing award must still be open at the time the supplement is awarded (not submitted); awards that have concluded before the supplement is awarded will not be reopened. Additional information about requesting supplemental support is contained in Part II of the NSF Proposal and Award Policy and Procedures Guide (PAPPG) available at: http://www.nsf.gov/publications/pub_summ.jsp?ods_key=papp .

Researchers may also immediately submit EAGER proposals to the CCF division or to OCI and prefix the title with "ASP: EAGER: ". Proposals must conform to the guidelines for preparation of EAGER proposals as specified in Part I of the PAPPG. Please note that an EAGER submission should satisfy the EAGER submission guidelines and is limited to a total budget of \$300K for a maximum of two years. Such proposals should be submitted no later than April 15, 2010 to ensure consideration in the current fiscal year.

CISE and OCI (and possibly other NSF Directorates and Offices) also anticipate releasing a new program solicitation to support larger, longer duration projects that will exploit the Azure services platform. We are hopeful that this solicitation will be released shortly and posted on NSF's web site. PIs will have 90 days to respond.

We anticipate the release of an FAQ web page shortly, with additional details on the Azure services platform and the various funding mechanisms.

Questions concerning these opportunities should be addressed to the following program directors: Chita Das in CCF (cdas@nsf.gov), Krishna Kant in CNS (kkant@nsf.gov), Frank Olken in IIS (folken@nsf.gov), or Manish Parashar (mparasha@nsf.gov) in OCI.

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José Muñoz
Director (Acting)
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Link to Full Announcement:

http://www.nsf.gov/pubs/2010/nsf10027/nsf10027.txt?WT.mc_id=USNSF_179

Opportunity #5

Software Infrastructure for Sustained Innovation (SI 2) National Science Foundation Dear Colleague NSF 10-029

Dear Colleague: The Office of CyberInfrastructure (OCI) is partnering with Directorates and Offices across the Foundation to establish Software Infrastructure for Sustained Innovation (SI 2), a long-term program focused on realizing a sustained software infrastructure that is an integral part of NSF's CyberInfrastructure Framework for 21st Century Science and Engineering (CF21).¹ vision. This program will catalyze and nurture the multidisciplinary processes required to support the entire software lifecycle, and result in the development of sustainable community software elements at all levels of the software stack and addressing all aspects of CI, from embedded sensor systems and instruments, to desktops and high-end data and computing systems. The goal is to create a software ecosystem that scales from individual or small groups of software innovators to large hubs of software excellence.

The overarching goal of the CF21 is to catalyze new thinking, paradigms and practices in science and engineering. CF21 fosters a pervasive, linked architecture for cyberinfrastructure that enables research at unprecedented scales, complexity, resolution, and accuracy by integrating computation, data and experiments in novel ways, nationally and internationally. CF21 has the potential for revolutionizing virtually every discipline by providing unique insights into complex problems, and thus represents unprecedented opportunities for understanding and managing natural and engineered systems.

Software is a primary modality through which CF21 innovation and discovery will be realized. It permeates all aspects and layers of cyberinfrastructure (from application codes and frameworks, programming systems, libraries and system software, to middleware, operating systems, networking and the low-level drivers).

The CF21 software infrastructure must address complexity, accommodating disruptive hardware trends, ever-increasing data volumes, complex application structures and behaviors, and emerging first-order concerns such as fault-tolerance and energy efficiency. The software must be continually refined, at one end to support these new trends and requirements, and at the other end to support new advances in the disciplines and their computational methodologies. There is also a new sense of urgency and opportunity for such an investment driven in part by the confluence of various stresses, including disruptive hardware trends, new technologies, new application formulations and community readiness.

The SI 2 program will collectively support a vibrant ecosystem of partnerships between academia, government laboratories and industry for the development and stewardship of a software infrastructure that can sustain and accelerate innovation and productivity, nationally and internationally. The focus and scope of the program has been informed by the findings of a number of workshops and panels organized by multiple communities, most notably the various ongoing taskforces that are subcommittees of the NSF-wide Advisory Committee for Cyberinfrastructure (ACCI). It is anticipated that this program will begin with a program solicitation as early as FY 2010 and will ramp up in subsequent years.

Questions or feedback related to this SI 2 initiative and upcoming program solicitation may be directed to Manish Parashar, OCI Program Director, by sending email to si2@nsf.gov
<http://www.nsf.gov/pubs/2010/nsf10015/nsf10015.jsp>

Link to Full Announcement:

http://www.nsf.gov/pubs/2010/nsf10029/nsf10029.txt?WT.mc_id=USNSF_179

Opportunity #6

Small Business Innovation Research Program Phase I FY-2011

National Science Foundation

NSF 10-546

Description: The Small Business Innovation Research (SBIR) Program stimulates technological innovation in the private sector by strengthening the role of small business concerns in meeting Federal research and development needs, increasing the commercial application of federally supported research results, and fostering and encouraging participation by socially and economically disadvantaged and women-owned small businesses. The primary objective of the NSF SBIR Program is to increase the incentive and opportunity for small firms to undertake cutting-edge, high risk, high quality scientific, engineering, or science and engineering education research that would have a high potential economic payoff if the research is successful. The fundamental mission of NSF is to promote discoveries and to advance education across the frontiers of knowledge in science and engineering. Consistent with that mission, NSF encourages and supports a wide range of proposals from the research and education community and also from the private small business sector. These proposals are reviewed under NSF's merit review criteria, which cover both the quality of research (intellectual or technical merit) and its potential impact on society (broader/commercial impacts). The SBIR program solicits proposals from the small business sector consistent with NSF's mission. The program is governed by Public Law 106-554. A main purpose of the legislation is to stimulate technological innovation and increase private sector commercialization. The NSF SBIR program is therefore in a unique position to meet both the goals of NSF and the purpose of the SBIR legislation by transforming scientific discovery into both social and economic benefit, and by emphasizing private sector commercialization. Accordingly, NSF has formulated broad solicitation topics for SBIR that conform to the high-technology investment sector's interests.

Topics are:

- Biotech and Chemical Technologies (BC)
- Education Applications (EA)
- Information and Communication Technologies (IC)
- Nanotechnology, Advanced Materials, and Manufacturing (NM)

Successful proposers will conduct Research and Development (R&D) on projects that:

1. Provide evidence of a commercially viable product, process, device, or system, and/or
2. Meet an important social or economic need.

Projects should have the following:

- High potential commercial payback, and
- High-risk efforts.
- Projects may also address:
 - Research tools which meet significant commercial market needs, or,
 - Applications that result in multipurpose commercially viable functions.
- For more in-depth program information please reference the following web site:
<http://www.nsf.gov/eng/iip/sbir/sbirspecs.jsp> .

- Anticipated Type of Award: Fixed Amount Awards
- Estimated Number of Awards: 200 to 300 (pending availability of funds).
- Anticipated Funding Amount: \$45,000,000 for SBIR Phase I (pending the availability of funds).
- PI Limit: The primary employment of the Principal Investigator (PI) must be with the small business concern at the time of the award. A PI must spend a minimum of one calendar month on an SBIR Phase I project and be 51% employed by the small business.
- Limit on Number of Proposals per Organization: 2 An organization can only submit a total of 2 proposals for this solicitation. If more than 2 proposals are submitted the additional proposals will be returned without review.
- Limit on Number of Proposals per PI: 1 The principal investigator and co-principal investigators may participate in only one proposal submitted to this solicitation. It is the responsibility of the submitting organization to insure that the PI and all co-PIs are participating in only one proposal submitted to this solicitation.
- Letters of Intent: Not Applicable
- Preliminary Proposal Submission: Not Applicable
- Cost Sharing Requirements: Cost Sharing is not required under this solicitation.
- Indirect Cost (F&A) Limitations: Indirect costs plus fringe benefits are limited to a maximum rate of 150% of direct salaries and wages. (See Section V.A.9.6)
- Other Budgetary Limitations: Other budgetary limitations apply. Please see the full text of this solicitation for further information.

Link to Full Announcement:

http://www.nsf.gov/pubs/2010/nsf10546/nsf10546.htm?WT.mc_id=USNSF_179

Opportunity #7

New Approaches to Arrhythmia Detection and Treatment (SBIR [R43/R44]) DHHS - NIH PA-10-117

Description: This Funding Opportunity Announcement (FOA) encourages Small Business Innovation Research (SBIR) grant applications from small business concerns (SBCs) that propose to improve our ability to detect, prevent, and treat all forms of cardiac arrhythmias. This initiative encourages SBCs to develop improved diagnostic and therapeutic tools, products, or devices for cardiac arrhythmia monitoring, detection and treatment. This FOA will utilize the SBIR (R43/R44) grant mechanisms for Phase I, Phase II, and Fast-Track applications and runs in parallel with a FOA of identical scientific scope, [PA-10-118](#), which encourages applications under the Small Business Technology Transfer (STTR) (R41/R42) grant mechanisms. Awards issued under this FOA are contingent upon the availability of funds and the submission of a sufficient number of meritorious applications. The total amount awarded and the number of awards will depend upon the quality, duration, and costs of the applications received. For this funding opportunity, budgets up to \$200,000 total costs per year and time periods up to 1 year for Phase I may be requested. Budgets up to \$400,000 total costs per year and up to 3 years may be requested for Phase II. Phase II Competing Renewal budgets must be submitted in accordance with participating IC-specific budget limitations described in the current [SBIR/STTR Program Descriptions and Research Topics](#) of the NIH, CDC and FDA. More than one PD/PI (i.e., multiple PDs/PIs) may be designated on the application. Applicant SBCs may submit more than one application, provided each application is scientifically distinct. Applicants may submit a resubmission application, but such application must include an Introduction addressing the previous peer review critique (Summary Statement). Only SBIR Phase II awardees are eligible to submit a SBIR Phase II Competing Renewal application, which should represent a continuation of support for research and development of the previous work funded by the original SBIR Phase II grant. SBIR Phase II Competing Renewal applications will be accepted by only those ICs described in the current [SBIR/STTR Program Descriptions and Research Topics](#) of the NIH, CDC and FDA.

Link to Full Announcement:

<http://grants1.nih.gov/grants/guide/pa-files/PA-10-117.html>

Opportunity #8

New Approaches to Arrhythmia Detection and Treatment (STTR [R41/R42]) DHHS – NIH PA-10-118

Description: This Funding Opportunity Announcement (FOA) encourages Small Business Technology Transfer (STTR) grant applications from small business concerns (SBCs) that propose to improve our ability to detect, prevent, and treat all forms of cardiac arrhythmias. This initiative encourages SBCs to develop improved diagnostic and therapeutic tools, products, or devices for cardiac arrhythmia monitoring, detection and treatment. This FOA will utilize the STTR (R41/R42) grant mechanisms for Phase I, Phase II, and Fast-Track applications and runs in parallel with a FOA of identical scientific scope, PA-10-117, that encourages applications under the Small Business Innovation Research (SBIR) (R43/R44) grant mechanisms.

Link to Full Announcement:

<http://grants.nih.gov/grants/guide/pa-files/PA-10-118.html>

Opportunity #9**MARC Undergraduate Student Training in Academic Research (U-STAR) National Research Service Award (NRSA) Institutional Research Training Grant (T34)
DHHS – NIH
PAR-10-119**

Description: The National Institute of General Medical Sciences (NIGMS) will award Minority Access to Research Careers (MARC) Undergraduate Student Training in Academic Research (U-STAR) National Research Service Act (NRSA) Training grants to eligible institutions as a means of supporting undergraduate academic and research training to help ensure that a diverse and highly trained workforce is available to assume leadership roles related to the Nation's biomedical and behavioral research agenda. The MARC U-STAR program is designed to have a significant impact on the health-related research needs of the Nation by providing support to students underrepresented in the biomedical and behavioral sciences and improving their preparation for highly selective Ph.D. level training and future careers. The program supports efforts to strengthen the science/math course curricula, pedagogical skills of faculty, and biomedical research training at institutions with significant enrollments of students from underrepresented groups. This Funding Opportunity Announcement (FOA) will utilize the Ruth L. Kirschstein National Research Service Award (NRSA) Prebaccalaureate Institutional Academic and Research Training Grant (T34). Awards for T34 institutional NRSA training grants may be for project periods up to five years in duration and are renewable. Trainees are required to pursue full-time research training for a consecutive 24- month period. The page limit for items 2, 3, and 5 is 25 pages collectively (see Section 8 of the SF424 (R&R) Application Guide). More than one PD/PI, i.e., multiple PDs/Pis, may be designated on the application. An eligible institution may apply for and hold only one MARC U-STAR academic and research training grant. Resubmission applications will be accepted. See new NIH policy on resubmission (amended) applications ([NOT-OD-09-003](http://www.nih.gov/NOT-OD-09-003), [NOT-OD-09-016](http://www.nih.gov/NOT-OD-09-016)). Such application must include an Introduction addressing the previous peer review critique (Summary Statement). Applications for the MARC U-STAR T34 training grant do not use SF424 Research and Related (R&R) form data tables (Table 1 – 12). Instead MARC T34 applicants may use the suggested data tables (Tables A – D) shown in this FOA. While applicants are not required to use these suggested tables, the information contained on them must be presented in the application in some format. For ease, the tables can be downloaded from the NIGMS/MORE Web site <http://www.nigms.nih.gov/Minority/applications.htm>.

Link to Full Announcement:

<http://grants1.nih.gov/grants/guide/pa-files/PAR-10-119.html>

Opportunity #10**Assessment of Post-treatment Lyme disease Syndrome (PLDS) (R01)
DHHS – CDC
RFA-CK-10-004**

Description: The Centers for Disease Control and Prevention (CDC) announces the availability of Fiscal Year (FY) 2010 funds for a grant for research on post-treatment Lyme disease syndrome (PLDS). The purpose of the program is to gain insight into epidemiological and clinical features of post-treatment Lyme disease syndrome that may be used to guide the development of future treatment and prevention efforts.

Link to Full Announcement:

<http://www07.grants.gov/search/announce.do;jsessionid=qp2HLP0TJ0qCh2m3Lsp1JS6YGLB9H1QfvMdnXzqDgkqQjGBNbKX!224569129>

Opportunity #11**Improved Diagnostics for Lyme Borreliosis (U01)
DHHS – CDC
RFA-CK-10-005**

Description: The Centers for Disease Control and Prevention (CDC) announces the availability of Fiscal Year (FY) 2010 funds for a cooperative agreement program for research aimed at developing and evaluating more sensitive and specific laboratory diagnostic tests for Lyme borreliosis. The purpose of the program is to bring into clinical practice laboratory tests that are superior to two-tiered serologic testing in their utility for diagnosing Lyme borreliosis and are capable of distinguishing active from prior infection.

Link to Full Announcement:

<http://www07.grants.gov/search/announce.do;jsessionid=qp2HLP0TJ0qCh2m3Lsp1JS6YGLB9H1QfvMdnXzqDgkqQjGBNbKX!224569129>

Opportunity #12

Vulnerable Populations

Robert Wood Johnson Foundation Local Funding Partnerships 2011 Call for Proposals-Annual Grantmaking Program

Description: The Robert Wood Johnson Foundation Local Funding Partnerships (LFP) program forges relationships between the Robert Wood Johnson Foundation (RWJF) and local grantmakers to fund promising, original projects that can significantly improve the health of vulnerable people in their communities.

Projects must be new, innovative, collaborative and community-based. Significant program expansions—into new regions or to new populations—may also be considered. Please note that these funds may not be used to maintain existing projects.

Projects must be nominated by a local grantmaker committed to participating as one of the funding partners.

Local funding partners must be willing to work with grantees to obtain sufficient dollar-for-dollar matching funds throughout the grant period. These funders may include independent and private foundations, family and community foundations, and corporate and other philanthropies.

Matching funds must represent new funding specifically designated to support the proposed project. In-kind services may not be used to match Foundation funds for the LFP Annual Grantmaking program. Complete selection criteria can be found in the call for proposals

Key Dates:

- May 13 and May 18, 2010—Optional conference calls for applicants. Information available on the program's Web site.
- June 30, 2010 (3 p.m. ET)—Deadline for receipt of Stage 1 brief proposals.
- September 15, 2010—Applicants notified if invited to submit a full proposal.
- November 10, 2010—Deadline for receipt of Stage 2 full proposals.
- July 1, 2011—Start of grants.

Total Award:

- Up to \$5 million is available for the 2011 grant cycle. Up to 12 matching grants of between \$200,000 to \$500,000 each will be awarded

Link to Full Announcement:

<http://www.rwjf.org/applications/solicited/cfp.jsp?ID=21021>

Opportunity #13

DoD Prostate Cancer Training Award Department of Defense - Dept. of the Army -- USAMRAA W81XWH-10-PCRP-PCTA

Description: The PCRP Prostate Cancer Training Award mechanism was introduced in FY06. Since then, 671 applications have been received, and 220 have been recommended for funding. The Prostate Cancer Training Award supports predoctoral or postdoctoral training opportunities focused on prostate cancer research or patient care for individuals in the early stages of their careers. The trainee will be considered the Principal Investigator (PI) and author of the proposal. These awards primarily provide salary support for the PI and require the active involvement of a mentor who is an established prostate cancer researcher, as evidenced by a demonstrated record of funding and publications in prostate cancer research. The focus of these awards is on the PI, the mentor, and the training program and environment. All applications for the Prostate Cancer Training Award are to be written by the proposed trainee, with appropriate direction from the mentor. The PCRP seeks applications from the wide spectrum of basic to clinical research, that are responsive to at least one of the PCRP focus areas. It is encouraged, although not required, that Prostate Cancer Training Award applications also be responsive to at least one of the PCRP overarching challenges. It is the responsibility of the PI to clearly and explicitly articulate how the project addresses the following important aspects of the Prostate Cancer Training Award:

1. **Principal Investigator and Mentor:** The PI must demonstrate strong qualifications for and a commitment to pursuing a career as a prostate cancer researcher or clinician. Submission to this funding opportunity requires a mentor, appropriate to the proposal, who has experience in prostate cancer research as demonstrated by a record of funding and publications. The selected mentor should be well qualified to significantly contribute to the development of the PI toward a career in prostate cancer research.
2. **Training Program and Environment:** The PI must outline an individualized training program designed to prepare him/her for an independent career in prostate cancer research or patient care. An environment appropriate to the proposed training and research project must be clearly described.

Link to Full Announcement:

<http://www07.grants.gov/search/announce.do;jsessionid=qp2HLP0TJ0qCh2m3Lsp1JS6YGLB9H1QfvMdnXzqDgkqQjGBNbKX!224569129>

Opportunity #14

DoD Prostate Cancer Physician Research Training Award Department of Defense - Dept. of the Army -- USAMRAA W81XWH-10-PCRP-PRTA

Description: The PCRP Physician Research Training Award was introduced in FY03. Since then, 106 applications have been received, and 48 have been recommended for funding. The Physician Research Training Award supports a mentored training experience to prepare physicians with clinical duties and/or responsibilities for productive careers in prostate cancer research. Applications must include a robust description of an individualized training program appropriate to the area of study, which may include coursework and seminars, that will provide the Principal Investigator (PI) with experience in key areas such as statistics, bioethics, and/or relevant basic science disciplines. This award requires the involvement of a designated mentor with an established research program in prostate cancer. This award is intended to provide aggressive protection of at least 40% of the PI's time for research. The PI must demonstrate a commitment to a career in prostate cancer research and clinical practice. In addition, salary for up to a 50% combined level of effort from one to two key support personnel may be provided by this award. Up to \$10,000 in funds per year from this award may be used for research supplies and equipment. These funds may be used for research with laboratory animals and human biological substances, as well as research with human subjects, provided that the funds are not used to support clinical trials. PIs may participate in clinical trials as part of their training for this award, but funding for the clinical trials must come from a source other than this award. The PCRP seeks Physician Research Training Award applications from the wide spectrum of basic to clinical research, that are responsive to at least one of the PCRP focus areas. It is strongly encouraged, although not required, that applications also be responsive to at least one of the PCRP overarching challenges.

Link to Full Announcement:

<http://www07.grants.gov/search/announce.do;jsessionid=qp2HLP0TJ0qCh2m3Lsp1JS6YGLB9H1QfvMdnXzqDgkqQjGBNbKX!224569129>