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Research Opportunities Compiled by:

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Opportunity #1

**Non-Volatile Logic (NV Logic)
Department of Defense - DARPA - Microsystems Technology Office
DARPA-BAA-10-42**

Description: DARPA is soliciting innovative research proposals in the area of Non-Volatile Logic technologies. The goal of this program is to develop a complete library of logic elements/building blocks that perform logical functions by exploiting new computational state variables such as magnetization and which can retain their state when power is removed. The NV Logic program is expected to enable a new computational paradigm based on the technologies developed in this program.

Link to Full Announcement:

<http://www07.grants.gov/search/announce.do;jsessionid=bBzpLJ6SGjNMq21gGqVILwkzpHSnK5907hGzp6LVI9FGWtZsXX3Y!-2003793174>

Opportunity #2

**Request for Information (RFI) Solar Demonstration Zone Project
Department of Energy
DE-FOA-0000303**

Description: This is a Request for Information (RFI) only. The full RFI document can be found at: <https://www.fedconnect.net/FedConnect/>. Click on the "Search Public Opportunities" link, then select "Reference Number" under Search Criteria and enter the full RFI number in the search field. All responses must be submitted to cspdemonstration@go.doe.gov by 11:59 PM Eastern Time. Emails should have the subject line Solar Demonstration Zone RFI Response. Following is a synopsis: The goal of the Department of Energy (DOE), Office of Energy Efficiency and Renewable Energy (EERE), Solar Energy Technologies Program (SETP), is to make solar energy cost compatible with grid electricity by 2015 and also to enable the high penetration of solar energy in the U.S. electricity market. The near-term goal of the Concentrating Solar Power (CSP) sub-program is to make CSP competitive in the intermediate power market through the development of advanced technologies that will reduce system and storage costs and to otherwise facilitate the deployment of utility-scale solar technologies. DOE is requesting information on the Solar Demonstration Zone Project.

Link to Full Announcement:

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

Opportunity #3

**Fellowship/Scholarship Program
Department of Energy
DE-FOA-0000304**

Description: This program supports education and training for future nuclear scientists, engineers and policy-makers who are attending U.S. universities and colleges in nuclear-related graduate, undergraduate and two-year study programs. These are zero-dollar awards that will be funded as students apply through their university.

Link to Full Announcement:

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

Opportunity #4

**Watershed Intern Program
Department of the Interior – Office of Surface Mining
DOI-SM-254-10**

Description: To assist watershed groups by providing funds for watershed organizations to hire interns to work on specific projects. The project must clearly enhance the sustainability of the watershed organizations, and must contribute directly to the remediation of acid mine drainage. Private nonprofit institutions/organizations, public nonprofit institutions/organizations, established watershed organizations in the following States are eligible to participate: Alabama, Illinois, Indiana, Iowa, Kentucky, Maryland, Missouri, Ohio, Oklahoma, Pennsylvania, Tennessee, Virginia and West Virginia. Undergraduate and graduate students, throughout the United States, interested in helping to clean up the environment are also eligible.

Link to Full Announcement:

<http://www.osmre.gov/>

Opportunity #5

**Recovery Act ARRA – Maternal and Child Health (MCH) Pediatric Research Network Program
DHHS – HRSA
HRSA-10-219**

Description: The goal of the ARRA Pediatric Research Network Program is to support the infrastructure within an established pediatric applied research network to enable it to more readily conduct comparative effectiveness research in pediatric primary care sites around the United States. These funds will be used to facilitate the pediatric research network to create a sub-network of practices that use certified electronic health records (EHRs) to address critical child health issues and generate new knowledge to improve pediatric practice.

Link to Full Announcement:

<https://grants.hrsa.gov/webExternal/FundingOppDetails.asp?FundingCycleId=2B400176-64D8-4A22-A911-1BBAFEEB95EC&ViewMode=EU&GoBack=&PrintMode=&OnlineAvailabilityFlag=&pageNumber=&version=&NC=&PopUp=>

Opportunity #6

Ethics in Science, Mathematics, and Engineering Online Resource Center (Ethics Resource) National Science Foundation NSF 10-547

Description: The Ethics in Science, Mathematics, and Engineering Online Resource Center competition proposes to fund one award to support a multidisciplinary team of researchers who will create an online resource center that develops, compiles, and maintains resources related to ethics in science, mathematics, and engineering. The research team's focus will be to gather existing information, generate new knowledge, and create interactive tools that will help scientists and engineers incorporate ethical issues and reasoning into their pedagogy and research. The online resource center should be creative, comprehensive, accessible, and constantly evolving. Thus, it should incorporate strategies and techniques to keep the Ethics in Science, Mathematics, and Engineering center relevant and up to date. Engineering, mathematics, and science refers to all of the fields that NSF supports; this includes the social sciences.

- Anticipated Type of Award: Cooperative Agreement
- Estimated Number of Awards: 1 - One award will be made. The award duration is five years.
- Anticipated Funding Amount: \$5,000,000 - The anticipated funding amount is up to \$5,000,000, pending availability of funds.
- Organization Limit: None Specified
- PI Limit: None Specified Limit on Number of Proposals per Organization: None Specified
- Limit on Number of Proposals per PI: None Specified
- Letters of Intent: Submission of Letters of Intent is required. Please see the full text of this solicitation for further information.
- Preliminary Proposal Submission: Not Applicable
- Cost Sharing Requirements: Cost Sharing is not required under this solicitation.
- Indirect Cost (F&A) Limitations: Not Applicable
- Other Budgetary Limitations: Not Applicable
- Letter of Intent Due Date(s) (required) (due by 5 p.m. proposer's local time)
- Full Proposal Deadline(s) (due by 5 p.m. proposer's local time): June 03, 2010

Link to Full Announcement:

http://www.nsf.gov/pubs/2010/nsf10547/nsf10547.txt?WT.mc_id=USNSF_29&WT.mc_ev=click

Opportunity #7

SHIFT Award: Small Businesses Helping Investigators to Fuel the Translation of Scientific Discoveries
[SBIR: R43/R44]
DHHS – NIH
PA-10-122

Description: The primary objectives of the SHIFT SBIR initiative are:

- (1) to foster research that is translational in nature and
- (2) to transform academic scientific discoveries into commercial products and services

Academic researchers can be a driving force for new products and services in a small business concern (SBC). A major feature of the SHIFT program includes the requirement for an investigator who is primarily employed by a United States research institution at the time of application to transition to a small business concern (SBC) and be primarily employed (more than 50% time) by the SBC by or at the time of award. A SHIFT SBIR grant enables an SBC to increase both its scientific research staff and its core competencies. The Project Director/Principal Investigator (PD/PI) may also facilitate SBC licensing of intellectual property (IP) from the PD/PI's prior academic institutions, promote collaboration opportunities with academic investigators, and enable better access to academic resources. This FOA will utilize the SBIR (R43/R44) grant mechanisms for Phase I, Phase II, and Fast-Track applications. Well-justified budgets up to \$200,000 total costs per year and time periods up to 2 years may be requested for Phase I. Well-justified budgets up to \$750,000 total costs per year and time periods up to 3 years may be requested for Phase II. Phase II Competing Renewal applications must be submitted in accordance with participating Institute's or Center's 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). See new NIH policy on resubmission (amended) applications ([NOT-OD-09-003](#), [NOT-OD-09-016](#)). 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 Institutes or Centers described in the current [SBIR/STTR Program Descriptions and Research Topics](#) of the NIH, CDC and FDA.

Link to Full Announcement:

<http://grants.nih.gov/grants/guide/pa-files/PA-10-122.html>

Opportunity #8**NIAID Advanced Technology SBIR (NIAID-AT-SBIR [R43/R44])
DHHS – NIH
PA-10-123**

Description: This funding opportunity announcement (FOA) encourages Small Business Innovation Research (SBIR) grant applications from small business concerns (SBCs) for advanced technology projects that require a longer award period and greater award amount than those routinely allowed under the SBIR program. For this FOA, "advanced technology" is defined as a "clearly identified" product or service that requires approval of the Food and Drug Administration (FDA) and is within the mission of NIAID. An example of a "clearly identified product" is a research project focused on a lead compound for an AIDS drug. A research project focused on developing an assay to identify lead compounds does not have a clearly identified product and would not be appropriate for this FOA. Only applications meeting the above "advanced technology" definition should be submitted in response to this FOA. Applications in response to this FOA should not contain human clinical trials. NIAID Policy currently only allows investigator initiated clinical trials to be submitted using the R34 mechanism. Information on this process can be found at the following site: <http://funding.niaid.nih.gov/ncn/clinical/R34.htm>. 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-10-124, which encourages applications under the Small Business Technology Transfer (STTR) (R41/R42) grant mechanisms. For this FOA, well-justified budgets up to \$300,000 total costs per year and time periods up to 2 years for Phase I may be requested. Well-justified budgets up to \$1 million total costs per year and time periods 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. Only United States SBCs may submit SBIR applications and receive SBIR awards. An SBC is one that, on the date of award for both Phase I and Phase II funding agreements, meets ALL of the criteria as described in [Section III](#). 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). See new NIH policy on resubmission (amended) applications ([NOT-OD-09-003](#), [NOT-OD-09-016](#)). 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://grants.nih.gov/grants/guide/pa-files/PA-10-123.html>

Opportunity #9

NIAID Advanced Technology STTR (NIAID-AT-STTR [R41/R42])

DHHS – NIH

PA-10-124

Description: This funding opportunity announcement (FOA) encourages Small Business Technology Transfer Research (STTR) grant applications from small business concerns (SBCs) for advanced technology projects that require a longer award period and greater award amount than those routinely allowed under the SBIR program. For this FOA, "advanced technology" is defined as a "clearly identified" product or service that requires approval of the Food and Drug Administration (FDA) and is within the mission of NIAID. An example of a "clearly identified product" is a research project focused on a lead compound for an AIDS drug. A research project focused on developing an assay to identify lead compounds does not have a clearly identified product and would not be appropriate for this FOA. Only applications meeting the above "advanced technology" definition should be submitted in response to this FOA. Applications in response to this FOA should not contain human clinical trials. NIAID Policy currently only allows investigator initiated clinical trials to be submitted using the R34 mechanism. Information on this process can be found at the following site: <http://funding.niaid.nih.gov/ncn/clinical/R34.htm>. This FOA will utilize the STTR (R41/R42) grant mechanisms for Phase I, Phase II, and Fast-Track and runs in parallel with a FOA of identical scientific scope, **PA-10-123**, that encourages applications under the Small Business Innovation Research (SBIR) (R43/R44) grant mechanisms. For this FOA, well-justified budgets up to \$300,000 total costs per year and time periods up to 2 years for Phase I may be requested. Well-justified budgets up to \$1 million total costs per year and time periods 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. Only United States SBCs may submit STTR applications and receive STTR awards. An SBC is one that, on the date of award for both Phase I and Phase II funding agreements, meets ALL of the criteria as described in **Section III**. 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). See new NIH policy on resubmission (amended) applications ([NOT-OD-09-003](#), [NOT-OD-09-016](#)). STTR Phase II Competing Renewal applications are not permitted under this FOA.

Link to Full Announcement:

<http://grants.nih.gov/grants/guide/pa-files/PA-10-124.html>

Opportunity #10

Collaborative Clinical Trials in Drug Abuse (Collaborative R01)

DHHS – NIH

PAR-10-099

Description: The National Institute on Drug Abuse (NIDA) seeks to increase the clinical collaboration of investigators between multiple clinical research groups, while simultaneously facilitating the study of outcome measures and/or patient populations that require larger numbers of subjects than any single site can reasonable enroll. This FOA will utilize the NIH Research Project Grant (R01) award mechanism.

Link to Full Announcement:

<http://grants.nih.gov/grants/guide/pa-files/PAR-10-099.html>

Opportunity #11

Strategic Partnering to Evaluate Cancer Signatures [SPECS II] (U01) DHHS – NIH PAR-10-126

Description: This Funding Opportunity Announcement (FOA), issued by the National Cancer Institute (NCI) of the National Institutes of Health (NIH), encourages the submission of grant applications for support of the clinical application of multi-analyte molecular signatures derived from comprehensive molecular annotation of tumors. There is growing recognition in the clinical cancer research community that annotation of tumor specimens with data that integrates information about molecular alterations at the levels of DNA, RNA, and protein provides not only a more complete understanding of tumor biology but also provides a significant opportunity for developing new clinical tools to improve cancer treatment. Translating the knowledge gained from this molecular annotation into tools that can be used in clinical decision-making remains a major challenge. The purpose of this initiative is to build on recent demonstrations that molecular signatures correlate with important clinical parameters in cancer. The goal of this initiative is also to create publications and data sets that will be available and accessible to the scientific community in order to further the development, design, and conduct of future clinical trials (e.g., incorporation of molecular signatures into future clinical trials and large clinical validation studies) and to encourage appropriate commercialization to benefit the public health. The NCI invites investigators to form strategic partnerships that will bring together the multi-disciplinary expertise and resources needed to determine how the information derived from comprehensive molecular analyses can be used to improve patient care and, ultimately, patient outcomes. This FOA will utilize the NIH U01 cooperative agreement mechanism.

Link to Full Announcement:

<http://grants.nih.gov/grants/guide/pa-files/PAR-10-126.html>

Opportunity #12

NHLBI Research Centers at Minority-Serving Institutions (P30) DHHS – NIH RFA-HL-11-019

Description: This FOA being issued by the National Heart, Lung, and Blood Institute, National Institutes of Health, solicits applications from Minority-Serving Institutions that propose to establish research centers to augment and strengthen research capabilities and resources in biomedical and behavioral research related to heart, lung, blood, and sleep diseases and disorders. The program is intended to occur in two phases: Phase I (the recruitment/retention phase and establishment of the External Advisory Board, 2 years) and Phase II (the development of the research program and research operations, 5 years). This FOA is intended to support Phase I only. Support for the Phase II limited competition is dependent upon success in Phase I, and a separate FOA for Phase II will be released at a later date. This FOA will utilize the NIH Core Center Grant (P30) mechanism. The NHLBI expects to fund up to 5 research centers totaling \$1 million total costs in FY2011. The expected direct cost per individual award is \$140K during each of the two years (Phase I). The P30 Research Strategy section may not exceed 12 pages, including tables, graphs, figures, diagrams, and charts. See [Table of Page Limits](#). Only one PD/PI may be designated on the application. Only one application is permitted per institution/organization. Resubmission applications are not permitted in response to this FOA. Renewal applications are not permitted in response to this FOA, and awards are not transferable from one PD/PI to another.

Link to Full Announcement:

<http://grants.nih.gov/grants/guide/rfa-files/RFA-HL-11-019.html>