Grant Opportunity Alerts: Issue: ORD-GOA-2015-04

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**NJIT 2015 Faculty Research Showcase**

**Event**: Faculty Research Showcase: Oral Presentations and Electronic Posters  
**When**: February 23, 2015; 11.00 AM – 7.00 PM  
**Where**: Ballroom A & B, and Gallery, Campus Center

**Keynote Speaker**: Dr. Tiffani Lash, Program Director, Division of Discovery Science and Technology, National Institutes of Health. Biosketch: [http://www.nibib.nih.gov/about-nibib/staff/tiffani-lash](http://www.nibib.nih.gov/about-nibib/staff/tiffani-lash)

We are pleased to announce the 2015 Faculty Research Showcase to introduce our new faculty members, and highlight the ongoing research projects. With a welcome address, Provost Fadi Deek will introduce new faculty members. The Faculty Research Showcase will feature faculty oral presentations and electronic-poster sessions with a focus on research synergy and recent accomplishments in the thematic areas: Life Sciences and Engineering, Sustainable Systems, and Data Science and Information Technology.

Please join us to network with our new faculty members, Faculty Seed Grant awardees and research center directors to celebrate research accomplishments.

**2015 Faculty Research Showcase**

February 23, 2015; 11.00 AM – 7.00 PM  
Ballroom A & B, and Gallery, Campus Center  
Tentative Agenda
11.00 AM - 11.05 AM: Welcome
Atam Dhawan, Vice Provost for Research (Interim)

11.05 AM - 11.15 AM: Welcome Remarks and Introduction to New Faculty:
Fadi Deek, Senior Executive Vice President and Provost

11.15 AM - 12.15 PM: Faculty Research Presentations:
Life Sciences and Engineering

James Haorah, Associate Professor, BME
Antje Ihlfeld, Assistant Professor, BME
Xuan Liu, Assistant Professor, ECE
Xiaoyang Xu, Assistant Professor, CBPE
Brooke Flammang, Assistant Professor, Biology
Daphne Soars, Assistant Professor, Biology

12.15 PM - 1.00 PM: Lunch

1.00 PM - 1.30 PM: Keynote Presentation

1.30 PM - 2.30 PM: Faculty Research Presentations: Sustainable Systems

Sagnik Basuray, Assistant Professor, CBPE
Hieu Pham Trung Nguyen, Assistant Professor, ECE
Dong Kyun Ko, Assistant Professor, ECE
Shawn Chester, Assistant Professor, MIE
Wen Zheng, Assistant Professor, CEE
Abdallah Khreishah, Assistant Professor, ECE

2.30 PM - 3.30 PM: Faculty Research Presentations:
Data Science and Information Technology

Kurt Rohloff, Associate Professor, CS
Donghee Yvette Wohn, Assistant Professor, IS
Junmin Shi, Assistant Professor, SOM
David Shirokoff, Assistant Professor, Math
Elizabeth Petrick, Assistant Professor, History
Usman Roshan, Associate Professor, CS

3.30 PM - 4.00 PM: Office of Research Forum: Research Synergy and Opportunities
Research Office Infrastructure: Atam Dhawan, VP-Research (Interim)
Collaborative Research Open Forum

4.00 PM - 5.30 PM: Poster Presentations and Networking Session

Electronic Posters:
Yun Shi, Professor, ECE
Dale Gary, Distinguished Professor, Physics
Victor Mateev, Associate Professor, Math
Taro Narahara, Assistant Professor, CoAD
Roman Voronov, Assistant Professor, CBPE
Keun Ahn, Associate Professor, Physics
Alexei Khalizov, Assistant Professor, CES
Songhua Xu, Assistant Professor, IS
Xiaoning Ding, Assistant Professor, CS
Bharat Biswal, Professor, BME; Center for Brain Imaging
Namas Chandra, Professor, BME, Center for Traumatic Brain Injury
Raj Dave, Distinguished Professor, CPBE: ERC Engineering Particulates
Kam Sirkar, Distinguished Professor, CPBE: Center for Membrane Tech.
Michel Boufadel, Professor, CEE; NRDP Center
Deane Evans, Director, Center for Building Knowledge
Thomas Dallessio, Director, Centre for Resilient Design
Michael Siegel, Professor, Mathematical Sciences; CAMS
Alexander Haimovich, Distinguished Professor; CWCSPR
William O'Byrne, Executive Director, NJ-HITEC
William Marshall, Director, NJ Homeland Security Tech Systems Center
Wayne Chaneski, Executive Director, Center for Manufacturing Systems
Lazar Spasovic, Director, Intelligent Transportation System Resource
Andrew Gerrard, Professor, Physics; Center Solar-Terrestrial Research
Dale Gary, Distinguished Professor, Big Bear Solar Observatory
Som Mitra, Executive Director, York Center Environmental Engineering
Haim Grebel, Professor, ECE; Electronic Imaging Center
Jerry Creighton, Sr., Executive Director, EDC
Timothy Franklin, Vice President, NJII
Quentin Jones, Professor, CS; Smart Campus
Tara Alvarez, Professor, BME, Vision and Neural Engineering
Treena Arinzech, Professor, BME; Tissue Engineering
Richard Foulds, Associate Professor, BME; Neurorehabilitation Engrg.
Mesut Sahin, Professor, BME; Neural Interfacing
William Rapp, Director, Leir Center for Financial Bubble Research
Yehoshua Perl and James Geller, Professors, CS; SABCC

5.30 PM-7.00 PM: Reception

NSF NRT and Internal Competition:

Grant Program: National Science Foundation Research Traineeship Program (NRT)
Agency: National Science Foundation NSF 15-542
Brief Description: The NSF Research Traineeship (NRT) program is designed to encourage the development and implementation of bold, new, potentially transformative, and scalable
models for STEM graduate education training. The NRT program seeks proposals that ensure that graduate students in research-based master’s and doctoral degree programs develop the skills, knowledge, and competencies needed to pursue a range of STEM careers. The NRT program includes two tracks: the Traineeship Track and the Innovations in Graduate Education (IGE) Track. The Traineeship Track is dedicated to effective training of STEM graduate students in high priority interdisciplinary research areas, through the use of a comprehensive traineeship model that is innovative, evidence-based, aligned with changing workforce and research needs, and scalable. For this solicitation the Traineeship Track has one priority interdisciplinary research theme — Data-Enabled Science and Engineering (DESE); proposals are encouraged also on any non-DESE interdisciplinary research theme that is a national priority. The IGE Track is dedicated solely to piloting, testing, and evaluating novel, innovative, and potentially transformative approaches to graduate education, both disciplinary and interdisciplinary, to generate the knowledge required for their customization, implementation, and broader adoption. Whereas the Traineeship Track promotes building on the current knowledge base to more effectively train STEM graduate students, the IGE Track supports test-bed projects with high potential to enrich, improve, and extend the knowledge base with attention to transferability and innovation. For both tracks, strategic collaborations with the private sector, non-governmental organizations (NGOs), government agencies, national laboratories, field stations, teaching and learning centers, museums, and academic partners are encouraged.

**Limited Number of Submission:** 3 (total)

**Limit on Number of Proposals per Organization:** 2 for the Traineeship Track, 1 for the Innovations in Graduate Education Track

Each institution may submit two Traineeship Track proposals and one Innovations in Graduate Education Track proposals. If an institution submits only one Traineeship Track proposal, it can be on either DESE or another theme. If an institution submits two Traineeship Track proposals, at least one must be a DESE proposal. In either case (DESE or non-DESE), the traineeship theme of a Traineeship Track proposal must be interdisciplinary.

**Letter of Intent:** March 25, 2015 and December 22, 2015; Applies to both tracks

**Full Proposal Submission Deadline:** May 06, 2015 and February 22, 2016 Applies to both tracks

**Internal Competition:** Pre-proposal for five pages for internal competition must be submitted with the following sections for internal review. Please follow the instructions for pre-proposals on each section as described in the last year NSF announcement NSF 14-548 available on the website [http://www.nsf.gov/pubs/2014/nsf14548/nsf14548.htm#prep](http://www.nsf.gov/pubs/2014/nsf14548/nsf14548.htm#prep)

1. Cover sheet (not included in the page limit)
2. Project Summary (1-page limit)
3. Project Description (4-page limit)
   a. List of Core Participants
   b. Theme, Vision and Goals
   c. Education and Training
   d. Major Research Efforts
   e. Broader Impact
   f. Recruitment, Mentoring and Retention
4. Budget and Matching Resources (not included in the page-limit)

**Internal Competition Deadlines:**
guarantees are insufficient for CPS when systems are large and spatially, temporally, or

models that redefine form and function. They integrate the continuous and discrete, compounded by the uncertainty of open environments. Traditional real-time performance guarantees are insufficient for CPS when systems are large and spatially, temporally, or
hierarchically distributed in configurations that may rapidly change. With the greater autonomy and cooperation possible with CPS, greater assurances of safety, security, scalability, and reliability are demanded, placing a high premium on open interfaces, modularity, interoperability, and verification.

The goal of the CPS program is to develop the core system science needed to engineer complex cyber-physical systems which people can use or interact with and depend upon. Some of these may require high-confidence or provable behaviors. The program aims to foster a research community committed to advancing research and education in CPS and to transitioning CPS science and technology into engineering practice. By abstracting from the particulars of specific systems and application domains, the CPS program seeks to reveal cross-cutting fundamental scientific and engineering principles that underpin the integration of cyber and physical elements across all application sectors. To expedite and accelerate the realization of cyber-physical systems in a wide range of applications, the CPS program also supports the development of methods, tools, and hardware and software components based upon these cross-cutting principles, along with validation of the principles via prototypes and testbeds. We have also seen a convergence of CPS technologies and research thrusts that underpin "Smart Cities" and the Internet of Things (IoT). These domains offer new and exciting challenges for foundational research and provide opportunities for maturation at multiple time horizons.

In 2015, NSF is working closely with multiple agencies of the federal government, including the U.S. Department of Homeland (DHS) Security Science and Technology Directorate (S&T), U.S. Department of Transportation (DOT) Federal Highway Administration (FHWA), U.S. DOT Intelligent Transportation Systems (ITS) Joint Program Office (JPO), National Aeronautics and Space Administration (NASA) Aeronautics Research Mission Directorate (ARMD), and several National Institutes of Health (NIH) institutes and centers [including the National Institute of Biomedical Imaging and Bioengineering (NIBIB), Office of Behavioral and Social Sciences Research (OBSSR), National Cancer Institute (NCI), and National Center for Advancing Translational Sciences (NCATS)], to identify basic research needs in CPS common across multiple application domains, along with opportunities for accelerated transition to practice. Three classes of research and education projects -- differing in scope and goals -- will be considered through this solicitation:

- **Breakthrough** projects must offer a significant advance in fundamental CPS science, engineering and/or technology that has the potential to change the field. This category focuses on new approaches to bridge computing, communication, and control. Funding for Breakthrough projects may be requested for a total of up to $500,000 for a period of up to 3 years.

- **Synergy** projects must demonstrate innovation at the intersection of multiple disciplines, to accomplish a clear goal that requires an integrated perspective spanning the disciplines. Funding for Synergy projects may be requested for a total of $500,001 to $1,000,000 for a period of 3 to 4 years.

- **Frontier** projects must address clearly identified critical CPS challenges that cannot be achieved by a set of smaller projects. Funding may be requested for a total of $1,000,001 to $7,000,000 for a period of 4 to 5 years.

**Awards:** $500,000 to $7,000,000

**Letter of Intent:** Not Required

**Deadline:** April 20, 2015 - May 04, 2015
Grant Program: Promoting Research and Innovation in Methodologies for Evaluation (PRIME)
Agency: NSF 15-540
RFP Website: http://www.nsf.gov/pubs/2015/nsf15540/nsf15540.htm

Brief Description: The Promoting Research and Innovation in Methodologies for Evaluation (PRIME) program seeks to support research on evaluation with special emphasis on: (1) exploring innovative approaches for determining the impacts and usefulness of STEM education projects and programs; (2) building on and expanding the theoretical foundations for evaluating STEM education and workforce development initiatives, including translating and adapting approaches from other fields; and (3) growing the capacity and infrastructure of the evaluation field. Three types of proposals will be supported by the program: Exploratory Projects that include proof-of-concept and feasibility studies; more extensive Full-Scale Projects; and conferences.

Awards: Standard Awards
Letter of Intent: Not Required
Full Proposal Deadline: April 30, 2015

Grant Program:
Research Experiences for Teachers (RET) in Engineering and Computer Science
Agency: NSF 15-536
RFP Website: http://www.nsf.gov/pubs/2015/nsf15536/nsf15536.htm

Brief Description: The Directorate for Engineering (ENG) and the Directorate for Computer and Information Science and Engineering (CISE), have joined to support the Research Experiences for Teachers (RET) in Engineering and Computer Science program. This program supports active long-term collaborative partnerships between K-12 Science, Technology, Engineering, Computer and Information Science, and Mathematics (STEM) teachers and community college and university faculty and students to bring knowledge of engineering or computer and information science and engineering as well as technological innovation to pre-college/community college classrooms. The goal of these partnerships is to enable K-12 STEM teachers and community college faculty to translate their research experiences and new knowledge gained in university settings into their classroom activities. The university team will include faculty, graduate and undergraduate students as well as industrial advisors. Involvement of graduate students in support of academic-year classroom activities is particularly encouraged. Partnerships with inner city, rural or other high needs schools are especially encouraged, as is participation by underrepresented minorities, women, and persons with disabilities.

As part of the long-term partnership arrangements, university undergraduate/graduate students will partner with pre-college/community college faculty in their classrooms during the academic year to help teach engineering/computer science concepts. This announcement features two mechanisms for support of in-service and pre-service K-12 STEM teachers and community college faculty: (1) RET supplements to ongoing ENG and CISE awards and (2) new RET Site awards. RET supplements may be included outside this solicitation in proposals for new or renewed NSF Directorate for Engineering (ENG) and Directorate for Computer and Information Science and Engineering (CISE) grants or as supplements to ongoing NSF ENG and CISE funded projects. RET in Engineering and Computer Science Sites, through this solicitation, are based on independent proposals from engineering or computer and/or information science departments, schools or colleges to initiate and
conducted research participation projects for K-12 STEM teachers and/or community college faculty.

**Awards:** Standard Awards  
**Letter of Intent:** Not Required  
**Full Proposal Deadline:** April 08, 2015

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**Grant Program:** STEM + Computing Partnerships (STEM+C)  
**Agency:** NSF 15-537  
**Brief Description:** The STEM+C Partnerships program seeks to significantly enhance the learning and teaching of science, technology, engineering, mathematics (STEM), and computing by K-12 students and teachers, through research on, and development of, courses, curriculum, course materials, pedagogies, instructional strategies, or models that innovatively integrate computing into one or more STEM disciplines, or integrate STEM content into the teaching and learning of computing. In addition, STEM+C seeks to build capacity in K-12 computing education with foundational research and focused teacher preparation. Projects in the STEM+C Partnerships program should build on research in STEM education and prior research and development efforts that provide theoretical and empirical justification for proposed projects. Pre-service and in-service teachers who participate in STEM+C projects are expected to enhance their understanding and teaching of STEM and computing content, practices, and skills. STEM+C invites creative and innovative proposals that address emerging challenges in the learning and teaching of STEM and computing. The program offers proposers two tracks: (1) Integration of Computing in STEM Education and (2) Computing Education Knowledge and Capacity Building. The second track is discipline-specific and may be expanded to include additional disciplines in future releases of the solicitation.

**Awards:** Standard Grants  
**Anticipated Funding Amount:** $43,000,000  
**Letter of Intent:** Not required  
**Deadline:** Full Proposal Deadline(s): Full Proposal Due: April 14, 2015

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**National Institutes of Health**

**Grant Program:** Patient Safety Learning Laboratories: Innovative Design and Development to Improve Healthcare Delivery Systems (P30)  
**Agency:** NIH (several institutes)  
**RFA-HS-15-001**  
**Brief Description:** The Agency for Healthcare Research and Quality (AHRQ) funds research leading to patient safety improvements in all settings and systems of care delivery. While many researchers have endorsed a systems model as a way of thinking about entrenched patient safety problems, there has been a scarcity of programmatic activity that actually engages in new design and systems engineering effort, and that is focused on more than singular patient safety concerns. This P30 FOA calls for the creation and utilization of Patient Safety Learning Laboratories. These learning laboratories are places and professional networks where closely related threats to patient safety can be identified, where multidisciplinary teams generate new ways
of thinking with respect to the threats, and where environments are established conducive to brainstorming and rapid prototyping techniques that stimulate further thinking. Learning laboratories further enable multiple develop-test-revise iterations of promising design features and subsystems of the sort that can be found in larger-scale engineering projects. Once the closely aligned projects or subsystems are developed, integrated, and implemented as an overall working system, the ultimate function of the learning laboratory is to evaluate the system in a realistic simulated or clinical setting with its full complement of facility design, equipment, people (patients, family members, and providers), new procedures and workflow, and organizational contextual features, as appropriate.

Applicants will select two to four closely related projects that focus on well-known, costly, patient safety harms in a given clinical area, and for which new and innovative design approaches are needed. While applicants will select the area of patient safety focus they consider of high significance, a flexible methodology – problem analysis, design, development, implementation, and evaluation – is provided that parallels the system development process to give an underlying structure to the four-year level of effort.

Awards: Up to $1,000,000

Letter of Intent: March 27, 2015

Deadline: Full Proposal Deadline(s)

April 27, 2015, by 5:00 PM local time of applicant organization. All types of non-AIDS applications allowed for this funding opportunity announcement are due on this date. Applicants are encouraged to apply early to allow adequate time to make any corrections to errors found in the application during the submission process by the due date.

Grant Program: Adolescent Brain Cognitive Development (ABCD) Study - Research Project Sites U01 and U24


Brief Description: The Collaborative Research on Addiction at the NIH (CRAN) – composed of the National Institute on Drug Abuse (NIDA), the National Institute on Alcohol Abuse and Alcoholism (NIAAA), the National Cancer Institute (NCI), and – along with the Eunice Kennedy Shriver Institute of Child Health and Human Development (NICHD), National Institute of Mental Health (NIMH), National Institute on Minority Health and Health Disparities (NIMHD), and the Office of Behavioral and Social Sciences Research (OBSSR) intend to jointly fund the Adolescent Brain Cognitive Development (ABCD) Study Consortium using the cooperative agreement award mechanism.

The objective of the consortium is to establish a national, multisite, longitudinal cohort study to prospectively examine the neurodevelopmental and behavioral effects of substance use from early adolescence (approximately age 9-10) through the period of risk for substance use and substance use disorders.

The structure of the consortium shall consist of three highly integrated components that may be linked at the time of submission: (1) a set of Research Project Sites, (2) a single central Data Analysis and Informatics Center, and (3) a single overall Coordinating Center. Unlinked applications will also be accepted, and if selected for funding, will be linked to other applications to form a consortium after review.

This Funding Opportunity Announcement (FOA) solicits applications for Research Project Sites.
This FOA runs in parallel with companion FOAs that solicit applications for a single Coordinating Center (RFA-DA-15-014) and a single central Data Analysis and Informatics Center (RFA-DA-15-016). It is expected that investigators, upon funding, will work jointly with NIH scientific staff to assist, guide, coordinate, or participate in project activities.

**Awards:** Standard awards

**Letter of Intent:** March 14, 2015

**Deadline:** April 14, 2015 by 5:00 PM local time of applicant organization. All types of non-AIDS applications allowed for this funding opportunity announcement are due on these dates. Applicants are encouraged to apply early to allow adequate time to make any corrections to errors found in the application during the submission process by the due date.

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**Grant Program:** BRAIN Initiative: Next-Generation Invasive Devices for Recording and Modulation in the Human Central Nervous System (UH2/UH3)


**Brief Description:** This funding opportunity will utilize a UH2/UH3 cooperative agreement mechanism to support non-clinical testing (formerly pre-clinical testing) to enable IRB approval and/or a successful IDE submission necessary to conduct a small clinical study, and the subsequent small clinical study (e.g., Early Feasibility Study, see [http://www.fda.gov/downloads/MedicalDevices/DeviceRegulationandGuidance/GuidanceDocuments/UCM279103.pdf](http://www.fda.gov/downloads/MedicalDevices/DeviceRegulationandGuidance/GuidanceDocuments/UCM279103.pdf) for details/definition). For NSR clinical studies that do not require an IDE, IRB approval is considered sufficient. **This funding opportunity supports nonclinical testing and clinical studies to answer key questions about the function or final design of a device. This final device design may require most, if not all, of the non-clinical testing on the path to more advanced clinical trials and market approval. The clinical study is expected to provide information that cannot be practically obtained through additional nonclinical assessments (e.g., bench top or animal studies) due to the novelty of the device or its intended use, yet is critical to enable next-generation diagnostic or therapeutic devices.** Activities that can be supported in this program include implementation of clinical prototype devices, design verification and validation activities, demonstration of non-clinical safety and efficacy, pursuit of U.S. regulatory approval for clinical study, and a single small clinical study. As applicants must have comprehensive supporting data, including proof-of-concept demonstration with a near final prototype in a relevant animal model prior to entry, innovation will in part be judged on presenting a credible path towards an IDE or an NSR clinical study.

All projects will have two phases, UH2 and UH3. The initial UH2 phase will support nonclinical testing to support to the filing of an IDE for an SR study or to obtain IRB approval for an NSR clinical study. All projects will start at the UH2 phase, but the length of UH2 phase will depend on the maturity of the project at entry. Only those UH2 projects that have met specific criteria (see below) will transition to the second UH3 phase after NIH administrative review. The UH3 phase will support a small clinical study.

An additional companion BRAIN FOA ([RFA-NS-15-008](http://grants.nih.gov/grants/guide/rfa-files/RFA-NS-15-008.html)) is anticipated to fund projects that are sufficiently developed to move directly to the UH3 clinical studies. This FOA is milestone-driven and involves NIH program staff’s participation in developing the project plan, monitoring the research progress, and making go/no-go decisions. NIH staff will also provide assistance to academic investigators in familiarizing them with the clinical device...
development process and the criteria needed to advance therapeutic leads and diagnostics to the clinic. The expectations of the program are in line with those of industry in regards to advancing devices through the translational developmental pipeline. As such, an inherent high rate of attrition is expected within this program.

**Awards:** Standard awards

**Letter of Intent:** Not Required

**Deadline:** April 14, 2015 by 5:00 PM local time of applicant organization. All types of non-AIDS applications allowed for this funding opportunity announcement are due on these dates. Applicants are encouraged to apply early to allow adequate time to make any corrections to errors found in the application during the submission process by the due date.

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**Grant Program:** NIAMS Musculoskeletal Biology and Medicine Resource-based Centers (P30)

**Agency:** National Institutes of Health (NIH) RFA-AR-16-004


**Brief Description:** The NIAMS requests applications for the NIAMS Resource-based Centers Program (P30) to provide critical research infrastructure, shared facilities, services, and resources to groups of investigators conducting research on musculoskeletal biology and medicine, with the broad overall goal of accelerating, enriching, and enhancing the effectiveness of ongoing basic, translational, and clinical research and promoting new research on musculoskeletal biology and medicine within the NIAMS mission. The Centers could potentially facilitate projects in many areas of musculoskeletal biology and medicine: the skeleton, muscles, and other connective tissues such as tendon, ligament, and cartilage. The Division of Musculoskeletal Diseases of the NIAMS supports research aimed at improving the diagnosis, treatment and prevention of diseases and injuries of the musculoskeletal system and its component tissues. Key public health problems addressed by this research include, but are not limited to, osteoporosis, osteoarthritis, and muscle diseases including muscular dystrophies.

For more information, research areas, and program contacts, please visit the Musculoskeletal Diseases webpage: [http://www.niams.nih.gov/Funding/Funding_Opportunities/Supported_Scientific_Areas/Musculoskeletal_Diseases/default.asp](http://www.niams.nih.gov/Funding/Funding_Opportunities/Supported_Scientific_Areas/Musculoskeletal_Diseases/default.asp)

**Awards:** Application budgets are limited to $500K direct costs per year.

**Letter of Intent:** May 11, 2015

**Deadline:** Full Proposal Deadline(s) June 11, 2015, by 5:00 PM local time of applicant organization. All types of non-AIDS applications allowed for this funding opportunity announcement are due on this date.

Applicants are encouraged to apply early to allow adequate time to make any corrections to errors found in the application during the submission process by the due date.

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**US Army Engineer Research and Development Center**

**Grant Program:** US Army Engineer Research and Development Center BAA

**Agency:** US Army

**Brief Description:** The U.S. Army Engineer Research and Development Center (ERDC) has issued a Broad Agency Announcement (BAA) for various research and development topic areas. The ERDC consists of the Coastal and Hydraulics Lab (CHL), the Geotechnical and Structures Lab (GSL), the Environmental Lab (EL) and the Information Technology Lab (ITL) in Vicksburg, Mississippi; the Cold Regions Research and Engineering Lab (CRREL) in Hanover, New Hampshire; the Construction Engineering Research Lab (CERL) in Champaign, Illinois; and the Geospatial Research Laboratory in Alexandria, Virginia. The ERDC is responsible for conducting research in the broad fields of hydraulics, dredging, coastal engineering, instrumentation, oceanography, remote sensing, geotechnical engineering, earthquake engineering, soil effects, vehicle mobility, self-contained munitions, military engineering, geophysics, pavements, protective structures, aquatic plants, water quality, dredged material, treatment of hazardous waste, wetlands, physical/mechanical/chemical properties of snow and other frozen precipitation, infrastructure and environmental issues for installations, computer science, telecommunications management, energy, facilities maintenance, materials and structures, engineering processes, environmental processes, land and heritage conservation, and ecological processes. The BAA is available at [http://erdc.usace.army.mil/](http://erdc.usace.army.mil/) and is open until superseded. Proposals may be accepted at any time. For questions regarding proposals to CHL, EL, GRL, GSL & ITL, contact Derek Howard at 601-634-3310 or via email at Derek.A.Howard@usace.army.mil. For questions concerning proposals to CERL, contact Wanda Huber at 217-373-6730 or via email at Wanda.L.Huber@usace.army.mil or Andrea Krouse at 217-373-6746 or via email at Andrea.J.Krouse@usace.army.mil. For questions concerning proposals to CRREL, contact Wendy Adams at 603-646-4323 or via email at Wendy.A.Adams@usace.army.mil or Ashley Jenkins at 217-373-7297 or Ashley.M.Jenkins@usace.army.mil. Contact the technical personnel listed at the end of each topic area for questions concerning the topic areas themselves.

**Awards:** Application budgets are limited to $500K direct costs per year.

**Letter of Intent:** Contact Technical Personnel listed above

**Deadline:** Until January 31, 2016.