

## Funding Bulletin

October 24<sup>th</sup>, 2014 (Special Broad Agency Announcement (BAA) Edition)

### Funding Information

To receive funding information, please contact Sarah Haug, Funding Opportunity Specialist, Office of Research and Technology Transfer, phone: 316-978-6803, e-mail: [sarah.haug@wichita.edu](mailto:sarah.haug@wichita.edu)

NOTICE – The Funding Bulletin is available via email. To be added to the electronic mailing list, send an email message to: [funding@wichita.edu](mailto:funding@wichita.edu). Leave the subject line blank. In the message area, type: *sub funding bulletin*. To unsubscribe, type: *unsub funding bulletin*.

The selected compilation of funding opportunities is provided by RTT's Pre-Award Services as a resource for Wichita State University Researchers. We encourage you to utilize the campus subscription to PIVOT to find funding opportunities specifically tailored to your research area based on keywords you provide. PIVOT is easy to use and offers other valuable services that are helpful to researchers. Access is available at: <http://pivot.cos.com/home/index> or you may contact [funding@wichita.edu](mailto:funding@wichita.edu) to have a custom search ran.

Click on the links below to go directly to the named section included in this edition's bulletin

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[ENGINEERING, MATHEMATICS & PHYSICAL SCIENCES](#)  
[HEALTH, LIFE & EARTH SCIENCES](#)  
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### How to Apply

Proposal development requests should be sent to [proposals@wichita.edu](mailto:proposals@wichita.edu). Please click on the following link for information regarding proposal submission at WSU:

<http://webs.wichita.edu/?u=WSURESEARCHADMIN&p=/Proposals/PreAwardServices/>

## GENERAL

### Research Initiatives at the Naval Postgraduate School

*Naval Postgraduate School (NPS)*

**Due Date: Applications accepted through 7/31/2015**

The Naval Postgraduate School (NPS) is interested in receiving proposals for research initiatives that offer potential for advancement and improvement in the NPS core mission of graduate education and research. Readers should note that this is an announcement to declare NPS's solicitation in competitive funding of meritorious research initiatives across a spectrum of science and engineering, business, politics and public/foreign policy, operational and information sciences, and interdisciplinary disciplines that are in line with the NPS' graduate education and research mission.

**FON: NPS-BAA-14-004**

- URL: <http://www.grants.gov/view-opportunity.html?oppld=260576>

## ENGINEERING, MATHEMATICS & PHYSICAL SCIENCES

### AFRL/RXM Manufacturing Technology Open BAA

*Air Force Research Laboratory (AFRL)*

**Due Date: White papers accepted through 6/24/2019**

Air Force Research Laboratory, Materials & Manufacturing Directorate is soliciting white papers and potentially technical and cost proposals under this announcement that supports the needs of its Manufacturing and Technology mission. Manufacturing Technologies that focus on strengthening defense manufacturing capabilities through the discovery of new manufacturing capabilities and efficiencies and transitioning capability to the factory floor are of interest. Descriptors of Manufacturing Technology interests are presented in two contexts; that of manufacturing technology competencies and that of Air Force application area needs. **BAA-RQKM-2014-0020**

- URL: <https://www.fbo.gov/index?s=opportunity&mode=form&id=f53723917a99bb133c03ca5c9ce671cc&tab=core&tabmode=list&>



### **AFRL Research Collaboration Program**

*Department of Defense (DoD)*

**Due Date: 12/20/2017**

The objective of the AFRL Research Collaboration program is to enable collaborative research partnerships between AFRL and Academia and Industry in areas including but not limited to Materials and Manufacturing and Aerospace Sensors that engage a diverse pool of domestic businesses that employ scientists and engineers in technical areas required to develop critical war-fighting technologies for the nation's air, space and cyberspace forces through specific AFRL Core Technical Competencies (CTCs). **BAA-RQKM-2013-0005**

- URL: <http://www.grants.gov/web/grants/search-grants.html?keywords=BAA-RQKM-2013-0005>

### **AFRL/RXC Structural Materials Open/Open BAA Program**

*Air Force -- Research Lab — Department of Defense (DoD)*

**Due Date: 11/4/2018**

Air Force Research Laboratory, Materials & Manufacturing Directorate is soliciting white papers and potentially technical and cost proposals under this announcement that support the needs of its Structural Materials and Applications mission. Structural Materials technologies that range from materials and scientific discovery through technology development and transition are of interest. Descriptors of Materials and Manufacturing Directorate technology interests are in two contexts; that of structural materials science and engineering academic competencies, and that of Air Force application area needs. **BAA-RQKM-2014-0003**

- URL: <http://www.grants.gov/web/grants/search-grants.html?keywords=BAA-RQKM-2014-0003>

### **2014 Broad Agency Announcement**

*U.S. Department of Defense (DoD); Department of the Army; Engineer Research and Development Center (ERDC)*

**Due Dates: Pre-proposals and proposals due anytime until 1/31/2015**

Notice seeking proposals 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. **FON: W912HZ-14-BAA-01**

- URL: <http://www.grants.gov/view-opportunity.html?oppld=250453>

### **Broad Agency Announcement: Applications of Molecular Biology, Biochemistry, Analytical Chemistry and Advanced Laser Techniques**

*U.S. Department of Defense (DoD), Department of the Navy Naval Research Laboratory (NRL)*

**Due Date: White Papers continually accepted**

The NRL Chemistry Division conducts research in a number of areas related to detection of biological, chemical, and other hazardous materials. In addition, the division conducts research in developing tools and methods to transfer, preserve, and characterize chemical and biological based materials. Areas of primary interest include the following: 1. Characterization of environmental processes and their application to remediation and restoration technologies 2. Detection, sampling, and characterization of chemical and biological agents, toxic metal ions, and explosives 3. Unique analytical chemistry tools for more efficient and cost effective sampling processing 4. Genetic- and molecular biological-based tools and techniques for the preservation and characterization of cells, tissue and biomaterials 5. Improved and alternative fuel sources 6. Atmospheric propagation of femtosecond pulses 7. Electromagnetic induction sensors and analysis for detection and classification of unexploded ordinance 8. Advanced laser techniques 9. Microfluidic structures with application to microchip separations, sampling, and detection 10. Chemometrics 11. Volume sensing through image analysis and machine vision 12. Reactive multi-functional coating **NRL –WIDE BAA 61-13-04**

- URL: <http://heron.nrl.navy.mil/contracts/baa/index03.html>

### **Broad Agency Announcement for Basic, Applied & Advanced Scientific Research**

*Defense Forensics and Biometrics Agency (DFBA)*

**Due Date: 6/30/2015**

The Department of Army's Office of the Provost Marshall General (OPMG) recently established the Defense Forensics and Biometrics Agency (DFBA). This umbrella agency serves as the Executive Agent for Department of Defense (DoD) forensics and biometrics casework, research, and new capabilities development. The DFBA forensic and biometric capabilities assist DoD in combating networks that threaten warfighters by denying criminals and adversaries anonymity. DFSC provides forensic laboratory services to DoD military criminal investigative organizations (Air Force Office of Special



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Investigations, Naval Criminal Investigative Service, and the Army Criminal Investigation Command) and other DoD customers. It is a full service forensic laboratory, providing state-of-the-art forensic examinations in the following disciplines:

- DNA/Serology
- Digital Evidence
- Drug Chemistry
- Firearms and Toolmarks
- Forensic Documents
- Latent Prints
- Trace Evidence

**The DFSC has three primary objectives:**

- (1) Analyze forensic evidence and casework and provide expert testimony
- (2) Provide expeditionary forensic services to U.S. military forces in active theaters of operation
- (3) Coordinate the execution of research projects to advance forensic capabilities

**W911NF-13-R-0006**

- URL:<http://www.arl.army.mil/www/pages/8/DFBA%20BAA%20FY13-FY15%20approved%2010Jul2013.pdf>

**Consolidated Broad Agency Announcement for Special Reconnaissance, Surveillance & Exploitation (SRSE)**

*Department of Defense (DoD) – U.S. Special Operations Command (USSOCOM)*

**Due Date: 12/31/2015**

Awards made under this BAA will be considered for research and development efforts that include experiments and tests, feasibility studies, technology evaluations, integrated technology evaluations, prototypes, operability, modeling, computational analysis, engineering and manufacturing development, and simulations. This includes evaluation of innovative or unique configurations or uses of commercial items and processes or concepts that are offered for further investigation for DoD applications. **H92222-14-BAA-SORDAC-SRSE**

- URL:<https://www.fbo.gov/index?s=opportunity&mode=form&id=6aa63ee55607c5711409c4b7c3f956ad&tab=core&cvview=0>



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## **Emerging Computing Architectures and Applications**

*Department of the Air Force – Air Force Materiel Command*

**Due Date: White papers 3/2/2015**

The Information Directorate, High Performance Systems Branch, of the Air Force Research Laboratory (AFRL), Rome Research Site, is soliciting white papers under this announcement for innovative technologies to explore and develop computational capabilities with greater sophistication, autonomy, intelligence, and assurance for addressing dynamic mission requirements imposed by Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR) applications and Size Weight and Power (SWAP) constrained Air Force platforms. Of particular interest are emerging technologies that can provide revolutionary computational capabilities which enable greater system adaptability, autonomy and intelligence while improving information availability throughout the C4ISR enterprise. This includes quantum algorithms, computing architectures that improve energy efficiency, architectures that support computational intelligence and neuromorphic computing, architectures for embedded processing, architectures for high-performance computing which improve performance & enable increased system functionality, tools to increase the productivity of developing applications, methods and architectures that can provide dramatic improvements in the performance/cost of systems. Also of interest are technologies that can reduce warfighter decision latencies/response time, decrease system costs and system development times. The overall objective of this BAA is to research, develop, and demonstrate emerging computing technologies and applications. **BAA-RIK-14-05**

- **URL:**<https://www.fbo.gov/index?s=opportunity&mode=form&tab=core&id=a9cafc4d1aa7ec4f4b0c197c66416c44&cvview=0>

## **Environmental Broad Agency Announcement**

*U.S. Department of Defense (DoD); Department of the Navy; Naval Facilities Engineering Command (NAVFAC)*

**Due Date: Abstracts and proposals may be submitted anytime until 1/26/2015**

Notice seeking proposals for technologies and methodologies to reduce environmental impacts from current and past Navy operations, and applies to Navy installations worldwide. NAVFAC EXWC is interested in environmental technologies and methodologies that are either new, innovative, advance the state-of-the-art, or increase knowledge or understanding of a technology or methodology. Follow the link for topic areas. **N3943014R1423**

- **URL:**<https://www.fbo.gov/?s=opportunity&mode=form&id=04362d2b4c2dee31061837eb480ed526&tab=core&cvview=0>

**FY2011 – 2016 Basic Research for Combating Weapons of Mass Destruction (C-WMD) Broad Agency Announcement (BAA)**

*Department of Defense (DoD) – Defense Threat Reduction Agency (DTRA)*

**Due Date: September 2016**

This BAA is an extramural endeavor that combines basic research needs of DTRA and the Joint Science and Technology Office for Chemical and Biological Defense (JSTO-CBD) to address the full spectrum of counter-WMD challenges. Both DTRA and JSTO-CBD share the mission to safeguard America and its allies from WMD and provide capabilities to reduce, eliminate, and counter the threat and effects from chemical, biological, radiological, nuclear, and high-yield explosives. Each seeks to identify, adopt, and adapt emerging and revolutionary sciences that may demonstrate high payoff potential to counter WMD threats. **HDTRA1-11-16-BRCWMD-BAA**

- URL: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=75633>

**Human-Centered Intelligence, Surveillance & Reconnaissance (ISR)**

*Air Force Research Lab (AFRL) – Department of Defense (DoD)*

**Due Date: White papers accepted through 2/12/2018**

This effort is an open-ended BAA soliciting innovative research concepts for the overall mission of the Human-Centered Intelligence, Surveillance, & Reconnaissance (ISR) Division (711 HPW/RHX). It is intended to generate research concepts not already defined and planned by RHX as part of its core S&T portfolio. The core RHX mission is to develop human-centered S&T that (1) enables the Air Force to better identify, locate and track humans within the ISR environment and (2) enhance the performance of ISR analysts. To accomplish this mission, the RHX core S&T portfolio is structured into three major research areas:

- (1) Human Signatures - develop technologies to sense and exploit human bio-signatures at the molecular and macro (anthropometric) level,
- (2) Human Trust and Interaction – develop technologies to improve human-to-human interactions as well as human-to-machine interactions, and
- (3) Human Analyst Augmentation – develop technologies to enhance ISR analyst performance and to test the efficacy of newly developed ISR technologies within a simulated operational environment.

The RHX mission also includes research carried over from the Airman Biosciences and Performance Program. While not directly linked to the core S&T strategic plan, there exists a unique capability resident within RHX to address critical Air Force operational and sustainment needs resulting from chemical and biological hazards. Research areas include contamination detection, hazard assessment



and management, individual and collective protection, and restoration and reconstitution of operational capability. **BAA-HPW-RHX-2014-0001**

- **URL:** <http://www.grants.gov/web/grants/view-opportunity.html?oppld=251243>

### **Innovative Systems for Military Missions**

*Defense Agency Research Projects Agency (DARPA) – Tactical Technology Office (TTO) – Department of Defense (DoD)*

**Due Date: Executive Summary 1/9/2015; White Paper 2/6/2015; Proposal 4/25/2015**

The Tactical Technology Office of the Defense Advanced Research Projects Agency is soliciting executive summaries, white papers and proposals for advanced research and development of Innovative Systems for Military Missions. This solicitation seeks system and subsystem level technologies that enable revolutionary improvements to the efficiency and effectiveness of the military. Novel concepts are sought in the following focus areas: Ground Systems, Maritime Systems, Air Systems, and Space Systems. Proposals may be submitted at any time while this solicitation is open. TTO may publish groups of special topics as modifications to this BAA throughout the year. TTO also welcomes classified submissions. **DARPA-BAA-14-25**

- **URL:** [https://www.fbo.gov/index?s=opportunity&mode=form&id=1e2216e1fa8aa88ec987843e15c81c1e&tab=core&\\_cview=0](https://www.fbo.gov/index?s=opportunity&mode=form&id=1e2216e1fa8aa88ec987843e15c81c1e&tab=core&_cview=0)

### **Mission Oriented Information Management (MOIM)**

*Department of the Air Force – Air Force Research Lab (AFRL)*

**Due Date: White papers 9/1/2015**

AFRL/RI conducts research in the areas of information management and dissemination. Resultant approaches have focused on the creation of services-based information management techniques. This research has led to the development of service oriented information management and dissemination implementations, in particular Phoenix Prime. The continued development and maturation of innovative concepts and enhanced services that maximize the value of information to support the objectives of military operations is the primary focus of this BAA. **BAA-RIK-2014-0011**

- **URL:** [https://www.fbo.gov/index?s=opportunity&mode=form&id=1a1a67137a8cd6301b654e5c0b08c501&tab=core&\\_cview=0](https://www.fbo.gov/index?s=opportunity&mode=form&id=1a1a67137a8cd6301b654e5c0b08c501&tab=core&_cview=0)



## **National Geospatial-Intelligence Agency Academic Research Program (NARP)**

*Department of Defense (DoD)- National Geospatial-Intelligence Agency*

**Due Date: White papers accepted through 8/31/2017; Proposals accepted through 9/30/2017**

The National Geospatial-Intelligence Agency (NGA) is releasing this solicitation for its sponsored academic research program. This publication constitutes a Broad Agency Announcement (BAA) as contemplated in Department of Defense (DoD) Grant and Agreement Regulations (DoDGARs) 22.315(a). Grants and cooperative agreements are the anticipated agreements resulting from this BAA; however, other instruments may be considered as appropriate. A formal Request for Proposals (RFP) will not be issued. NGA will not provide funding for direct reimbursement of proposal development costs. **HM0210-14-BAA-0001**

- URL: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=254129>

## **NRL Broad Agency Announcement – Information for the Preparation and Submission of Proposals**

*Naval Research Lab (NRL)*

**Due Date: White papers continually accepted**

This is NRL's Broad Agency Announcement (BAA) issued under the provisions of paragraphs 35.016 and 6.102(d)(2) of the Federal Acquisition Regulations (FAR). Proposals may range from theoretical studies to proof-of-concept to include fabrication and delivery of a prototype. However, this is limited to research procurements for which it would be impossible to draft an adequate RFP in sufficient detail without restraining the technical response and thus hindering competition rather than expanding it. BAA topics include all NRL sites located in the Washington, DC area, the Stennis Space Center, MS, and Monterey, CA. Proposals submitted in response to a BAA announcement that are selected for award are considered to be the result of full and open competition and are in full compliance with the provisions of Public Law 98-369, "The Competition in Contracting Act of 1984." NRL is interested in receiving proposals for the research efforts described under this BAA. **BAA-N00173-03**

- URL: [http://heron.nrl.navy.mil/contracts/baa/baa\\_2013/index03.html](http://heron.nrl.navy.mil/contracts/baa/baa_2013/index03.html)

## Research and Development Grants

*Federal Aviation Administration (FAA) – U.S. Department of Transportation (DOT)*

**Due Date: Applications accepted on a continual basis through 12/31/2019**

The FAA Research Grants Program encourages and supports innovative, advanced research of potential benefit to the long-term growth of civil aviation and Commercial Space Transportation. The pursuit of basic and applied research in scientific and engineering disciplines that have the potential to further knowledge and understanding on a broad front of emerging technologies is crucial to the realization of this goal. The intent is to encourage applied research and development to enhance technology assimilation, transfer, and development in the FAA. The Research Grants Program does not require the immediate application to Research, Engineering, and Development (R,E&D) programs, although this may occur in some cases. The agency encourages the submission of proposals that embrace the entire spectrum of physical, chemical, biological, medical, psychological, mathematical, and engineering sciences. The authorizing legislation that supports the Research Grants Programs covers two general categories: a) areas deemed by the Administrator to be required for the long-term growth of civil aviation; and b) areas related to research on the prevention of catastrophic failures. These specific areas of interest may be found within the broad program areas identified in the FAA R, E&D Plan, which comprises the agency's research and development initiatives. These areas, which contribute to the FAA mission of improving aviation safety, capacity, efficiency, and security, are:

1. Capacity and Air Traffic Control Technology
2. Communications, Navigation, and Surveillance
3. Aviation Weather
4. Airports
5. Aircraft Safety Technology
6. Human Factors and Aviation Medicine
7. Environment and Energy
8. Systems Science/Operations Research
9. Commercial Space Transportation

### FAA-12-01

- URL: <http://www.grants.gov/web/grants/search-grants.html?keywords=FAA%20Aviation%20research%20and%20development%20grants>

## **Research Interests of the Air Force Office of Scientific Research (AFOSR)**

*Department of the Air Force*

**Due Date: Proposals accepted continually**

The focus of AFOSR is on research areas that offer significant and comprehensive benefits to our national warfighting and peacekeeping capabilities. These areas are organized and managed in five scientific Departments: Dynamical Systems and Control (RTA), Quantum and Non-Equilibrium Processes (9RTB), Information, Decision and Complex Networks (RTC), Complex Materials and Devices (RTD), and Energy, Power and Propulsion (RTE). **BAA-AFOSR-2014-0001**

- **URL:**<https://www.fbo.gov/index?s=opportunity&mode=form&id=8e61d12b6d66c6e6a95a0cbff21d56b8&tab=core&tabmode=list>

## **Signals Intelligence (SIGINT) Collection, Processing and Exploitation**

*Department of the Air Force – Air Force Materiel Command*

**Due Date: White papers 10/15/2015**

The objective of this program is to provide for the development of real-time processing technology to improve the extraction, identification, analysis and reporting of tactical information. The processed information will support the Intelligence, Surveillance and Reconnaissance (ISR) mission, protect blue coalition forces with command, control, computer and intelligence applications, and support battlespace awareness for the warfighter. **BAA-RIK-2014-0010**

- **URL:**<https://www.fbo.gov/index?s=opportunity&mode=form&id=ad589b7da8a392c365f462dfeab0f24d&tab=core&cvview=0>

## **Strategic Technologies**

*Defense Advanced Research Projects Agency (DARPA) – Strategic Technology Office (STO)*

**Due Date: 9/17/2015**

DARPA is seeking innovative ideas and disruptive technologies that offer the potential for significant capability improvement across the Strategic Technology Office focus areas. This includes technology development related to Battle Management, Command and Control (BMC2), Communications and Networks, Electronic Warfare, Intelligence, Surveillance, and Reconnaissance (ISR), Position, Navigation, and Timing (PNT), Maritime, and Foundational Strategic Technologies and Systems. Proposed research should investigate approaches that enable revolutionary advances in science,

devices, or systems. DARPA anticipates funding a limited number of proposals under this BAA. Specifically excluded are existing mature solutions and research that results in evolutionary improvements to existing technologies. **DARPA-BAA-14-48**

- URL: <https://www.fbo.gov/index?s=opportunity&mode=form&id=7a2e77e75fb658c22202f9d849eaf51d&tab=core&cvview=0>

## HEALTH, LIFE & EARTH SCIENCES

### Biological Technologies

*Defense Advanced Research Projects Agency (DARPA), Biological Technologies Office (BTO)*

**Due Date: Proposals accepted on rolling basis through 4/30/2015**

The Defense Advanced Research Projects Agency (DARPA) is soliciting innovative research proposals of interest to the Biological Technologies Office (BTO). Proposed research should investigate leading edge approaches that enable revolutionary advances in science, technologies, or systems at the intersection of biology with engineering and the physical and computer sciences. Specifically excluded is research that primarily results in evolutionary improvements to the existing state of the art. BTO seeks unconventional approaches that are outside the mainstream, challenge assumptions, and have the potential to radically change established practice, lead to extraordinary outcomes, and create entirely new fields. **DARPA-BAA-14-38**

- URL: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=254566>

## SOCIAL & BEHAVIORAL SCIENCES

### Broad Agency Announcement for Basic, Applied, and Advanced Scientific Research (FY13-18)

*United States Army Research Institute for the Behavioral and Social Sciences (ARI)*

**Due Date: 2/5/2018**

The U.S. Army Research Institute for the Behavioral and Social Sciences is the Army's lead agency for the conduct of research, development, and analyses for the improvement of Army readiness and performance via research advances and applications of the behavioral and social sciences that address personnel, organization, training, and leader development issues. Programs funded under

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this BAA include basic research, applied research, and advanced technology development that can improve human performance and Army readiness. Collaboration is encouraged among educational institutions, non-profit/not-for-profit organizations, commercial organizations, and the other U.S. Military Services. **W911NF-13-R-0001**

- URL: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=219293>

### **Minerva Research Initiative**

*Department of the Navy Science & Technology(S&T) - Office of Naval Research (ONR)*

**Due Date: White papers 11/10/2014; Full Proposals 2/10/2015**

The Minerva Research Initiative is a DoD-sponsored, university-based social science research program initiated by the Secretary of Defense. This program is a multi-service effort, with technical input from the services. The program focuses on areas of strategic importance to U.S. national security policy. It seeks to increase the Department's intellectual capital in the social sciences and improve its ability to address future challenges and build bridges between the Department and the social science community. Minerva brings together universities, research institutions, and individual scholars and supports multidisciplinary and cross-institutional projects addressing specific topic areas determined by the Department of Defense. The Minerva Research Initiative aims to promote research in specific areas of social science and to promote a candid and constructive relationship between DoD and the social science academic community. **BAA-14-013**

- URL: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=265088>