

# Department of Defense "101"

Lewis-Burke Associates, LLC

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# Today's talk

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- Overview of the Department of Defense S&T organization
- Navigating the Landscape
  - What messages best resonate
  - How does working with DOD, NIH, and NSF differ from each other
- Questions

# DOD Overview

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- **FY 2017 budget: RDTE: \$72.3 billion; S&T Total: \$14.01 billion (increased 3.6 %/ 5.6 %)**
- Political leaders starting to get appointed/confirmed
- Leadership at Air Force Office of Scientific Research (AFOSR), Office of Naval Research (ONR), and Army Research Office (ARO) will remain in place
- New funding opportunities continue to roll out
- Presidents' **FY 2018 budget** would:
  - Provide an additional \$52 billion for DOD in FY 2018 to address readiness and force structure
  - Increases to Research, Development Testing & Evaluation (RDT&E)

# FY2017 – S&T Winners and Losers

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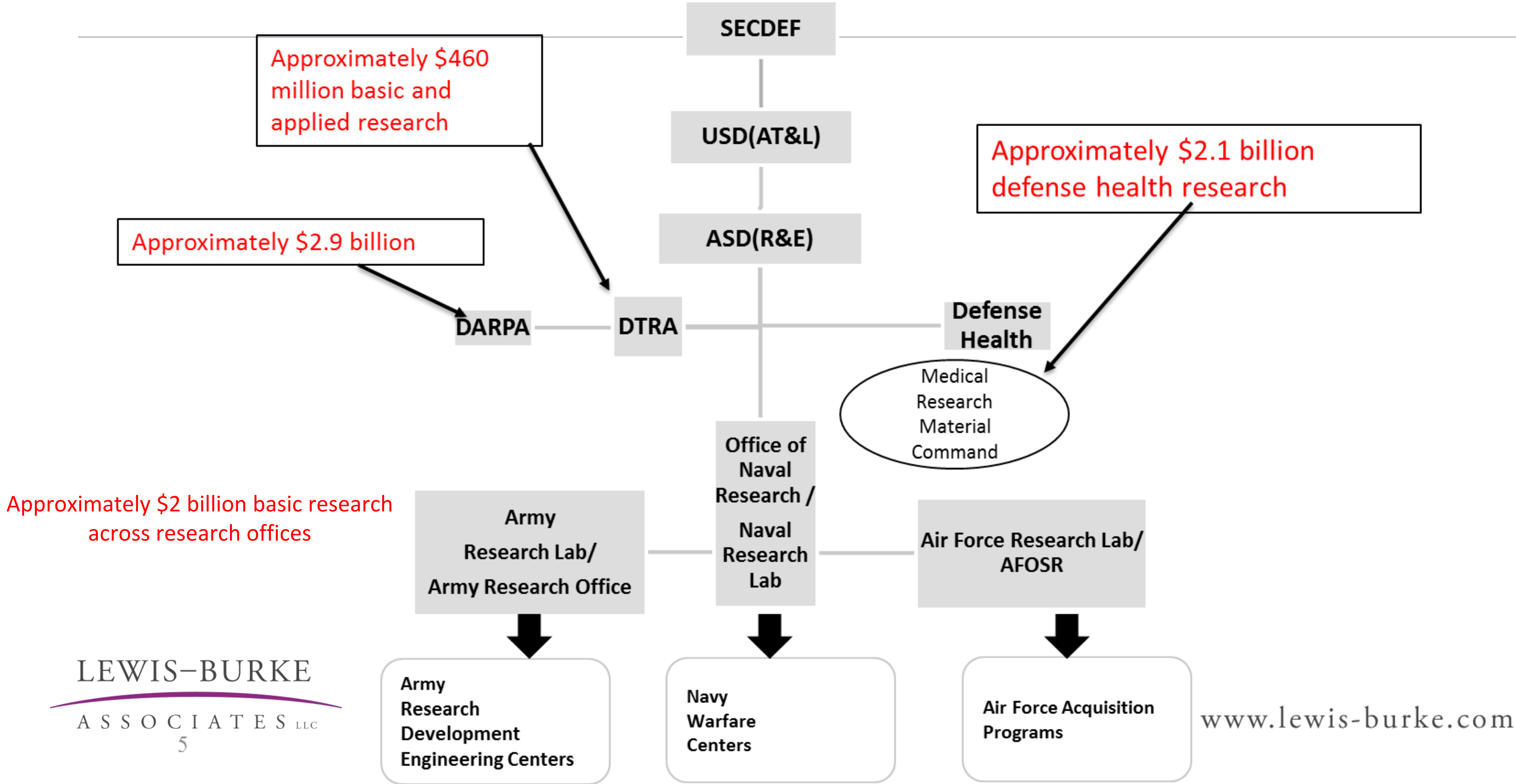
- **Basic Research – 6.1:** Added \$174.5 M – **Navy cut**
  - Army & Air Force - Defense Research Sciences; National Defense Education Program
- **Applied Research – 6.2:** Added \$510.3 M – **DARPA and DIUx cut**
  - Weapons & Munitions
  - Materials
  - Power projection
  - Aerospace
  - Medical Development
- **Advanced Development – 6.3:** Added \$1038 M – **DIUx, OSD joint programs, Chem/Bio cut**
  - Distributed Learning Advanced Technology Development
  - Weapons and Munitions Advanced Technology
  - Missile and Rocket Advanced Technology
  - Combat Vehicle and Automotive Advanced Technology
  - High Performance Computing Modernization Program
  - Combating Terrorism Technology Support
  - Medical Advanced Technology
  - Aviation Advanced Technology
  - Advanced Materials for Weapon Systems

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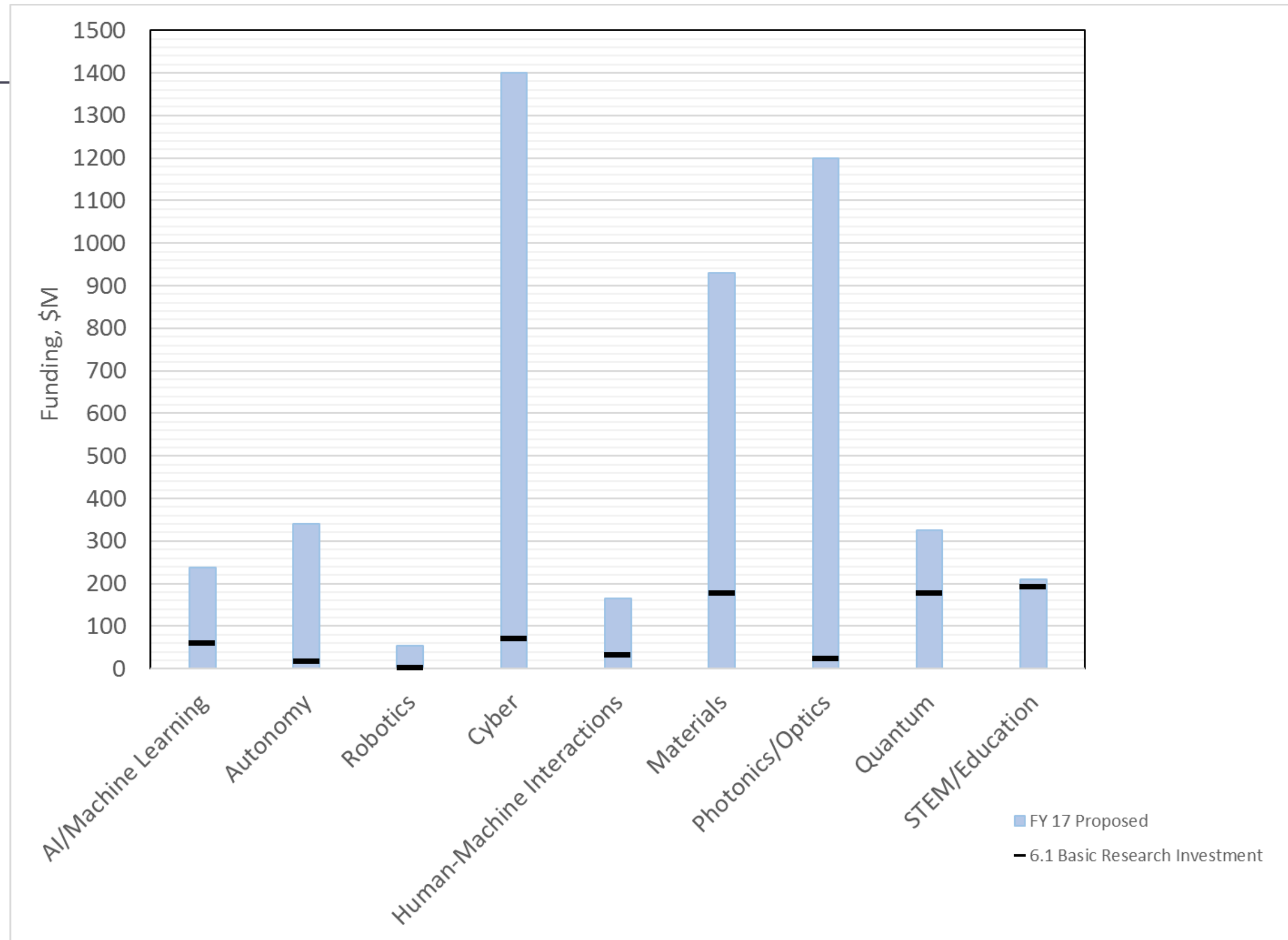
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# DOD Organization



# ASD (R&E): S&T Priorities (FY 17)

~ 40 % 6.1 budget covered by S&T priorities



# Basic Research - OSD flagship programs

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- **OSD – office of basic research** – oversight to basic research
  - Army – Army Research Office(part of ARL) ·Navy – Office of Naval research ·Air Force – AFOSR (part of AFRL)
- **Multidisciplinary University Research Initiative (MURI)** program supports research conducted by teams of investigators that intersect more than one traditional science and engineering discipline in order to accelerate research progress
  - 2016 issued 23 awards totaling \$163 million over the next five years to academic institutions to perform multidisciplinary basic research
  - Services solicited proposals in 23 topics important to DOD and the military services.
  - Initially, 315 white papers were received, 89 of which were selected for more detailed proposals.
  - Awards selected based on a merit review by a panel of experts and are subject to successful negotiation between the institution and DOD.
- **Vannevar Bush Faculty Fellowship (formerly NSSEFF)** provides extensive, long-term financial support to distinguished university faculty and staff scientists and engineers to conduct unclassified, basic research on topics of interest to DoD
  - Foster long-term relationships between the science and engineering faculty program fellows and the DoD S&T enterprise.
  - The Fellows will be selected based on competitive evaluations of the scientific and technical merit of the applicants' white papers and proposals.
  - Anticipated that ~ 10 fellowships will be awarded each fiscal year

# Army Research Laboratory (ARL)

## Army Research Office (ARO)

### ARO Research Thrusts

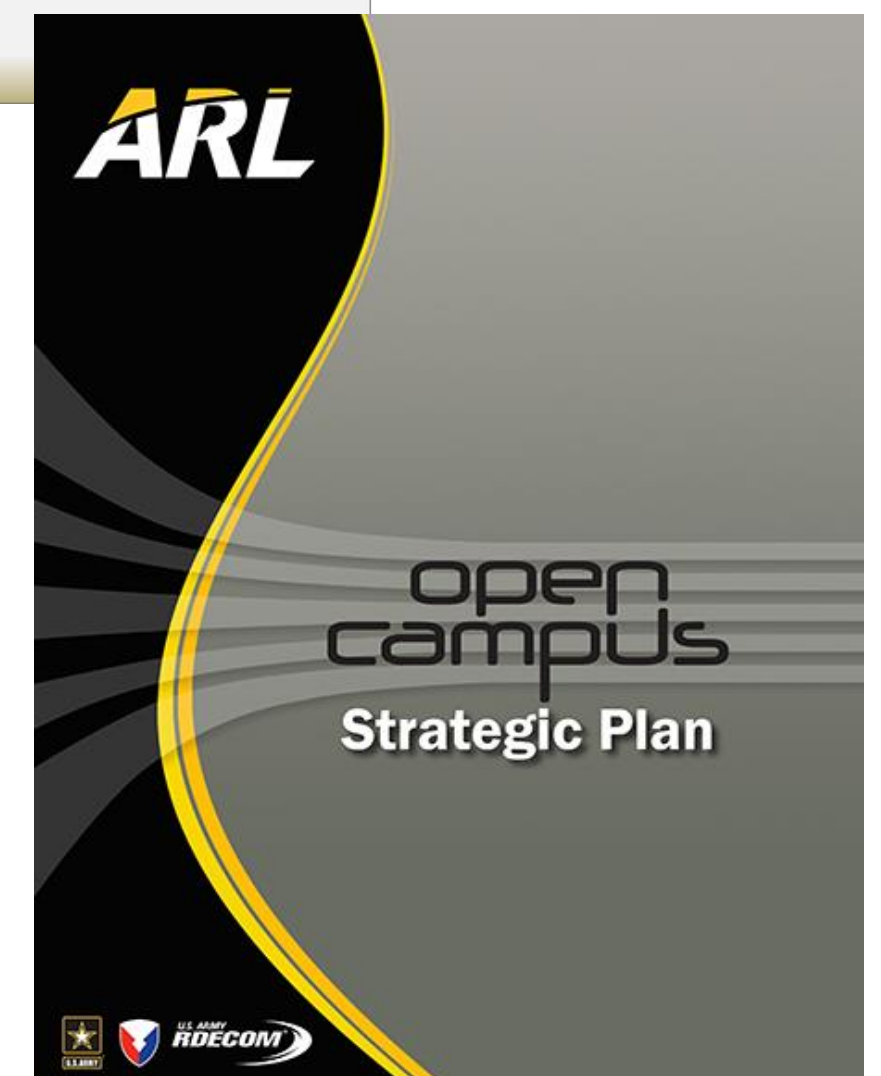
- Chemistry
- Computing and Info Science
- Electronics
- Environmental
- Life Sciences
- Materials
- Mathematics
- Mechanics
- Network Science
- Nanoscience
- Physics

### ARL Core Technical Areas

- Computational Sciences
- Materials
- Sciences-for-Maneuver
- Information Sciences
- Sciences-for-Lethality and Protection
- Human Sciences
- Assessment and Analysis



**Research ranges from atom optics for underground bunker/tunnel detection to nano-energetics for more powerful and insensitive munitions and propellants**





# Air Force Research Laboratory (AFRL)

## Air Force Office of Scientific Research (AFOSR)

- AFOSR awards nearly 1,500 grants and contracts to more than 200 academic institutions, 160 firms and more than 250 intramural programs

- **Annual BAA (Broad Agency Announcement)**

### AFRL Technology Focus Areas

- Next Generation Aerospace Systems
- Weapons
- Space & Nuclear Deterrence
- Intelligence, Surveillance, & Reconnaissance
- Command & Control, Cyber, Communications (C<sup>4</sup>)
- Affordability and Sustainment
- Human Performance
- Electronic Warfare/Electronic Protection



### AFOSR

- Engineering and Complex Systems
- Information and Networks
- Physical Sciences
- Chemistry and Biological Sciences

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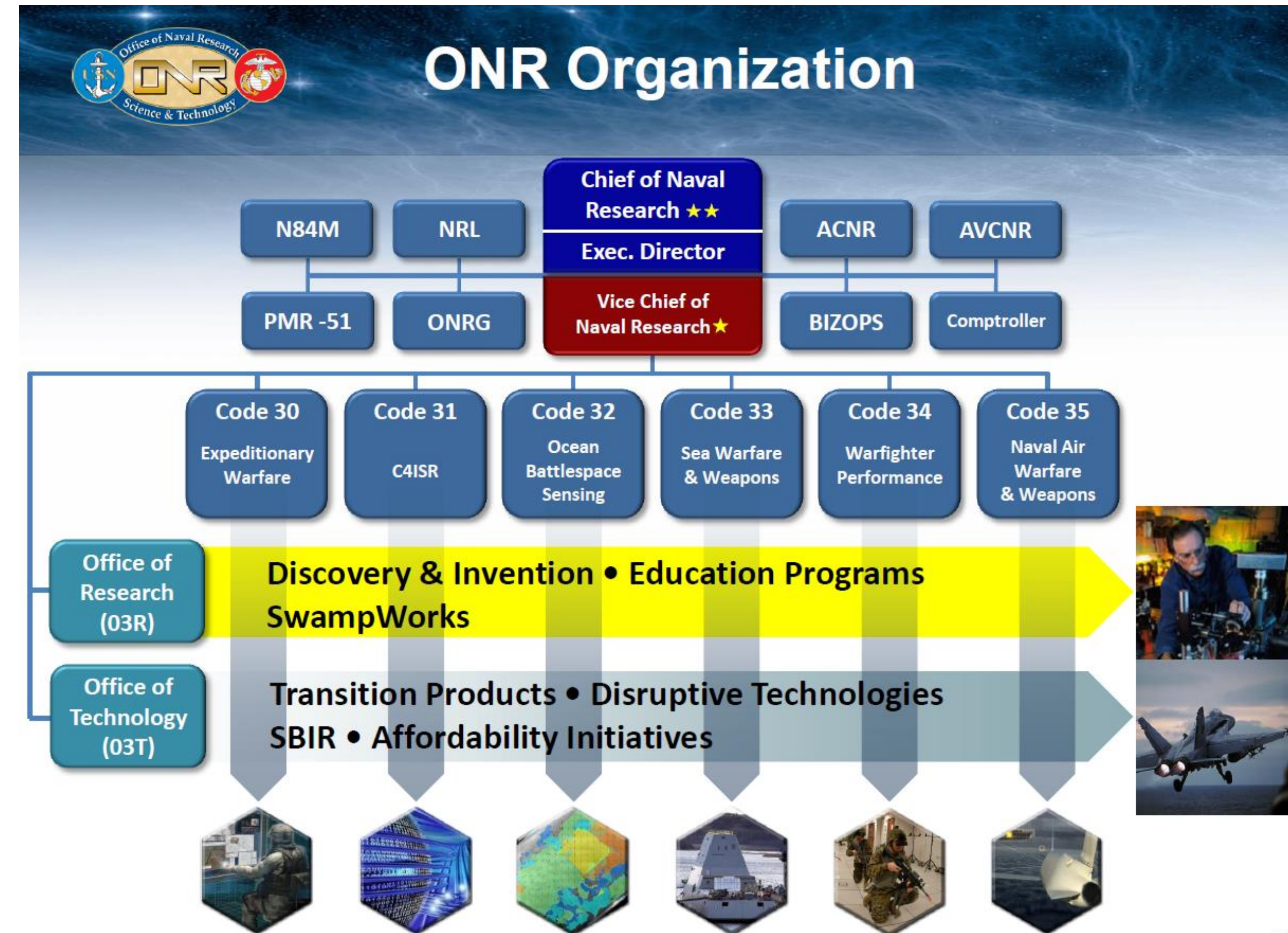
# Office of Naval Research (ONR)

- ONR- Leading funder of basic research across service branches
- ONR releases **open BAA** at start of fiscal year – submit white paper prior to full application

Use "Technology Locator": <http://www.onr.navy.mil/Science-Technology/Contacts.aspx>

## Organized by CODEs 30-35

- **Code 30** - Expeditionary Maneuver Warfare and Combating Terrorism Department
- **Code 31** - Command, Control, Communications, Computers, Intelligence, Surveillance & Reconnaissance (C4ISR)
- **Code 32** - Ocean Battlespace Sensing
- **Code 33** - Sea Warfare and Weapons
- **Code 34** - Warfighter Performance
- **Code 35** - Naval Air Warfare and Weapons



Distribution Statement A: Approved for public release

# DARPA

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- FY17 \$2.93 B, \$40 M **decrease** from request
- Basic research program increased by ~ \$30M

## Areas of Focus:

- *Controlling Electro Magnetic (EM) Spectrum*
- *Distributed Lethality*
- *Space*
  - Small satellite constellations
- *Hypersonics*
  - Missiles
- *Artificial Intelligence*
  - Machine Learning
  - Neural Networks
  - Human-Machine interactions
- *Biology*
  - Neuroscience
  - Infectious Diseases
  - Synthetic Bio

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# Defense Threat Reduction Agency (DTRA)

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- **Basic and applied research on bio/chemical/nuclear/explosives/information sciences geared towards countering weapons of mass destruction**
- **Total Research Budget (6.1-6.3) ~\$460 million (basic \$35 million)**
  - Non-medical: Nano, cognition, information science, bioscience
  - Medical Biological Defense Transformational Medical Technologies Initiative: Diagnostic Technology, Vaccine, Therapeutic – viral, toxin, bacterial
  - Medical Chemical Defense – Smallest Area: Respiratory, Cutaneous and Ocular, Neurological, Toxicology
- **Working with DTRA**
  - Broad Agency Announcement (BAA): Science and Technology New Initiatives.
    - New way for researchers to engage DTRA program managers by submitting a quad chart and white paper narrative to gauge interest in an idea and receive informal feedback.
  - Annual call for BASIC RESEARCH TOPICS pre-application white papers - typically in fall
  - Multi-year BAA, specific topics change annually based on program manager interest - little feedback

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# DOD Health

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## Government-wide Initiatives Impacting DOD Health

- **Precision Medicine**
- **Cancer Moonshot**
- **Big Data:** data sharing standards, software tools, enhanced training, centers of excellence
- **BRAIN:** targeted investment to accelerate development of neurotechnologies
- **Alzheimer's and aging:** new investments in research and care to address looming in patients and costs
- **Global Health Security** (biosurveillance, antimicrobial resistance, and Ebola/infectious disease research and response)

## DOD Health Research Priorities

- **Hemorrhage** – blood products (storage, transportation, in theater transfusions); extend blood platelet shelf life; improved pre-hospital treatments for critical patients; alternatives to using anti-biotics for post wound care.
- **Traumatic Brain Injury (TBI)** – classification of TBIs that can inform future technology and treatment strategies; Biomarkers to replace CAT scans (affordability)
- **Mental Health** – suicide prevention; substance abuse, rural healthcare/telemedicine
- **Pain Management** – Burn care, opioid use
- **Infectious Disease** – prevention, diagnostics, therapeutics; surveillance; warfighter v. civilian health
- **Health IT**

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# Army Medical Research & Materiel Command (USAMRMC)

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- Priority Disciplines

- **Military Infectious Diseases** (~\$36m)

- Walter Reed Army Institute of Research
    - U.S. Army Medical Research Institute of Infectious Diseases

- **Combat Casualty Care** (~\$27 m)

- U.S. Army Institute of Surgical Research
    - Walter Reed Army Institute of Research

- **Military Operational Medicine** (~\$57m)

- U.S. Army Research Institute of Environmental Medicine
    - U.S. Army Aeromedical Research Laboratory
    - Walter Reed Army Institute of Research

- **Clinical and Rehabilitative Medicine Research Program** (~\$18m)

- Releases annual BAA that outlines wide-ranging research interests for the fiscal year
  - White papers accepted on a rolling basis
- Program managers vary in their willingness to discuss ideas
  - Conferences and symposia can be best places to connect despite travel restrictions
  - Many hesitant to take meetings, but willing to speak via phone
- Critical to link your research to a military population/mission/outcome

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# Congressionally-Directed Medical Research Program (CDMRP)

**Mission:** *“Responsibly manage collaborative research that discovers, develops and delivers health care solutions for Service Members, veterans, and the American public.”*

- Started in 1992 to support breast cancer research – has since supported research in more than 20 topic areas
- Created as way for Congress to assert influence over biomedical research agenda
- Congress helps dictate topics, but open competitions/peer review employed in funding decisions
- CDMRP funds added annually by appropriators
  - Frequent talk about scaling back, but Senator Durbin a strong supporter
- TBI/Psychological Health a key focus in recent years; sustained at \$125 million in FY 2016

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# Steps to Effectively Engage DOD

- Review program websites, BAAs, and past solicitations to find relevant programs
- Meet program managers, laboratory subject matter experts, invite government researchers to give Department seminars
- Attend conferences
  - E.g. Annual Military Health System Research Symposium <http://mhsrs.com/>
- Submit white paper ahead of application to assess fit to program, get feedback, and potentially shape future solicitations
- Have more than one idea to propose
- Be prepared to adapt your research to meet program managers' goals
- Other considerations:
  - Fellowships
  - Postdoc Support (most if not all have support for rotations or funded support)
  - Equipment
  - Seed grants (flexibility)

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# Upcoming Meetings/Conferences

- June 22-23 (Crystal City, VA) – OSD Science, Technology and Innovation exchange (STIx)
- July 10 (DC) - DHS cyber security Expo
- July 20-21 (DC) - NAVAL Future Force S&T Expo
- August 27-30 (Kissimmee, FL) - Annual Military Health System Research Symposium
- Fall 2017 (MD) – ARL Open Campus, Open House

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# Discussion

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# Sampling of Existing Funding Opportunities

- DOD's **Rapid Innovation Fund (RIF) BAA** is focused on facilitating the rapid insertion of innovative technologies into military systems or programs that meet critical national security needs. While directed at small businesses, the RIF BAA provides a good opportunity for universities to better understand the current DOD technology needs and begin building relationships with local industry. The deadline for white papers is May 19, with *awards eligible for a maximum of \$3 million*.
- DARPA's **Active Interpretation of Disparate Alternatives BAA** is focused on developing "a multihypothesis semantic engine that generates explicit alternative interpretations of events, situations, and trends from a variety of unstructured sources, for use in noisy, conflicting, and potentially deceptive information environments." The deadline for proposals is June 6, the full funding amount is not yet known.
  - Note DARPA has a number of active solicitations
- DOD's **Minerva Research Initiative** seeks to fund top-quality social science research that provides DOD with a better understanding of the factors influencing the geopolitical environment in which it operates. The deadline for proposals is June 21, with *awards ranging between \$150,000 - \$ 1 million per year (averaging \$400k)*, for a period of three to five years.
- The **Defense University Research Instrumentation Program (DURIP)** provides acquisition funding for equipment and instrumentation used to support defense-related research activities on campus. *Projects funds range from \$50,000 - \$1.5 million*. The deadline for proposals is July 7.
- DOD's **Multidisciplinary University Research Initiative (MURI) Broad Agency Announcement (BAA)** is one of the signature DOD research programs for the university community and stands as the benchmark for building a defense-oriented research capability on campus. The topics of interest vary among the Branches example topics include quantum sensing; novel materials; self-assessment of autonomous and intelligent systems. The deadline for white papers is July 17, with *individual awards anticipated to be \$1.25 - \$1.5 million per year*, for at least five years.
- The **Naval Air Systems Command BAA** is intended to establish Cooperative Agreements and contracts in support of basic and applied research to address U.S. Naval science and technology (S&T) challenges in areas such as structures, avionics, materials science, aerodynamics, navigation, sensors, human factors, propulsion, and power. White papers can be submitted on a rolling basis until January 3, 2018. Funding amounts for this solicitation are not yet known.

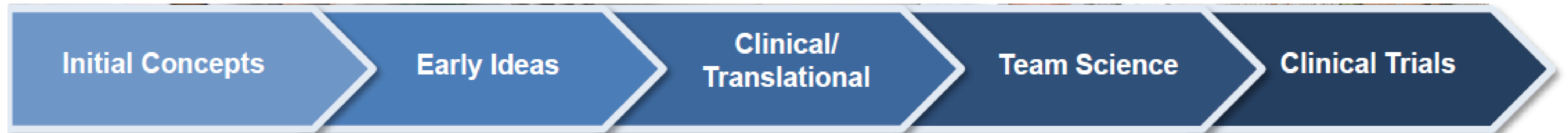
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# CDMRP – Various Mechanisms

**For Research Proposals:**



**Based on Type of Applicant**



# CDMRP – Review Process

**Two-tier review process: peer review** for scientific merit and **programmatic review** to ensure the DOD mission and needs are met

## Peer Review

- Evaluate scientific merit
- Provide written critique and scores for criteria and overall merit
- Panels comprised of scientific and consumer reviewers
- No standing peer review panels
- No contact between reviewers and applicants



## Programmatic Review

- Proposals with high scientific merit compared for programmatic review
- Evaluate relevance to mission and DOD need
- Evaluate adherence to award mechanism's intent (ex. new idea v. clinical trial)
- Consider portfolio composition
- Provide recommendations for funding

# CDMRP (CONTINUED)

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## Sample FY14 Integration Panel – Breast Cancer

- Nimmi Ramanujam, Ph.D. (Chair)  
Duke University
- Gregory Adams, Ph.D.  
Fox Chase Cancer Center
- *Otis Brawley, M.D.*  
**American Cancer Society**
- *Frank Calzone, Ph.D. (Chair Emeritus)*  
**Biotechnology Consultant**
- Daniel Douek, M.D., Ph.D.  
National Institute of Allergy and Infectious Disease (NIH)
- Silvia Formenti, M.D.  
New York University School of Medicine
- *Pat Haugen*  
**South Dakota Breast Cancer Advocacy**
- Christopher Li, M.D., Ph.D.  
Fred Hutchinson Cancer Research Center
- *Ngina Lythcott, Dr. P.H.*  
**Black Women's Health Imperative**
- Mark Pegram, M.D.  
Stanford University
- Malcolm Pike, Ph.D.  
Memorial Sloan-Kettering Cancer Center
- William Redd, Ph.D.  
Mount Sinai School of Medicine
- *Joy Simha (Chair-Elect)*  
**Young Survival Coalition**
- Dennis Slamon, M.D., Ph.D.  
University of California, Los Angeles
- *Frances Visco, Esq.*  
**National Breast Cancer Coalition**
- Alana Welm, Ph.D.  
University of Utah, Huntsman Cancer Institute

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# CDMRP – Current Topics/Opportunities

FY 2017 \$822.9 million, \$30 million < than FY 2016 level :: **Bolded items reflect increases or new topics from FY 16**

- Peer-Review Medical (**\$300 m**)
- Traumatic Brain Injury and Psychological health (\$125 m)
- Breast Cancer (\$120 m)
- Prostate Cancer (**\$90 m**)
- Peer-Review Cancer (**\$60 m**)
- Joint Warfighter Medical (\$50 m)
- Peer-Review Orthopedic (\$30 m)
- Spinal Cord (\$30 m)
- Gulf War Illness (\$20 m)
- Ovarian Cancer (\$20 m)
- Neurotoxin Exposure Treatment Parkinson's (\$16 m)
- Alzheimer (\$15 m)
- Neurofibromatosis Research (\$15 m)
- Vision (**\$15 m**)
- **HIV/AIDS program increase (\$12.9 m)**
- Lung Cancer Research (\$12 m)
- Reconstructive Transplant (\$12 m)
- Trauma Clinical (\$10 m)
- **Hearing Restoration (\$10 m)**
- **Kidney Cancer (\$10 m)**
- **Orthotics and Prosthetics (\$10 m)**
- **Global HIV/AIDS prevention (\$8 m)**
- Military Burn (\$8 m)
- Epilepsy (\$7.5 m)
- Amyotrophic Lateral Sclerosis (\$7.5 m)
- Autism Research (\$7.5 m)
- Tuberos Sclerosis (\$6 m)
- Multiple Sclerosis (\$6 m)
- Tick-borne disease research (\$5 m)
- **Lupus (\$5 m) – Moved from PRMRP**
- Alcohol and Substance Abuse (\$4 m)
- Bone Marrow Failure (\$3 m)
- Duchenne Muscular Dystrophy (\$3.2 m)

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# Peer Reviewed Medical Research Program (PRMRP)

- Acute Lung Injury
- Antimicrobial Resistance
- **Arthritis\***
- **Burn Pit Exposure\***
- Chronic Migraine and Post-Traumatic Headaches
- Congenital Heart Disease
- Constrictive Bronchiolitis
- Diabetes
- **Diarrheal Diseases\***
- Dystonia
- **Early Trauma Thermal Regulation\***
- **Eating Disorders\***
- Emerging Infectious Diseases
- **Epidermolysis Bullosa\***
- Focal Segmental Glomerulosclerosis
- Fragile X Syndrome
- **Guillain-Barre syndrome\***
- Hepatitis B and C
- Hereditary Angioedema
- Hydrocephalus
- **Immunomonitoring of Intestinal Transplants\***
- Inflammatory Bowel Diseases
- Influenza
- Integrative Medicine
- Interstitial Cystitis
- Malaria
- Metals Toxicology
- Mitochondrial Disease
- **Musculoskeletal Disorders\***
- Nanomaterials for Bone Regeneration
- Nonopioid Pain Management
- Pancreatitis
- Pathogen-Inactivated Dried Cryoprecipitate
- Polycystic Kidney Disease
- Post-Traumatic Osteoarthritis
- Pulmonary Fibrosis
- Respiratory Health
- Rett Syndrome
- Rheumatoid Arthritis
- Scleroderma
- Sleep Disorders
- **Spinal Muscular Atrophy\***
- **Sustained-release Drug Delivery\***
- Tinnitus
- Tuberculosis
- Vaccine Development for Infectious Disease
- Vascular Malformations
- Women's Heart Disease

\*Denotes new topic in FY 2017

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# CDMRP Opportunities Available Now

- **Bone Marrow Failure Research** (preapplication – 7/13)
- **Ovarian Cancer** (preapplication – 6/21)
- **Breast Cancer** (5 different mechanisms; preapplications due in early June)
- **ALS** (preapplication due 6/9)
- **Lung Cancer Research Program**
  - **Concept Award**
  - **Career Development Award**
  - **Idea Development Award**
  - **Investigator-Initiated Translational Research Award**
  - **Translational Research Partnership Award**
  
- **Multiple Sclerosis Research Program**
  - **Exploration - Hypothesis Development Award**
  - **Investigator-Initiated Research Award**
  
- **Vision Research Program**
  - **Clinical Trial Award**
  - **Technology/Therapeutic Development Award**
  
- **Early Notice:**
  - **Peer Reviewed Cancer Research:** Brain Cancer (new for FY17), Cancer in children, adolescents, and young adults (new for FY17)
  - **Epilepsy Research**
  - **Alzheimer's Research**
  - **Autism Research**
  - **Reconstructive Transplant Research Program (RTRP)**
  - **Alcohol and Substance Abuse Disorders Research Program (ASADRP)**
  - **Parkinson's Research Program (PRP)**

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# Example: Alzheimer's Research Program FY 2017 Foci

- **Genomics/Proteomics:** Studies or technologies (e.g., genetic, proteomic, bioinformatics and epigenetic strategies) intended to characterize neurological change(s) associated with TBI and subsequent AD/ADRD. In addition, relevant technologies or tests may be considered under this focus area.
- **Mechanisms of Pathogenesis:** Identification of contributing mechanisms (e.g., pathology of Tau, non-neuronal cells, inflammatory factors, and vascular contributions) associated with TBI and subsequent AD/ADRD pathogenesis.
- **Quality of Life:** Research intended to alleviate, stabilize, or characterize the symptoms, or deficits, common to TBI, Alzheimer's disease (AD) and Alzheimer's disease-related dementias (ADRD). Examples of research in this Focus Area include: Identification and management of co-morbidities and modifiable risk factors (e.g., sleep apnea, obesity); cognitive training interventions; studies of health and wellness and behavioral interventions.
- **Caregiver Support:** Research intended to reduce the burden of care on the caregiver for individuals living with the common symptoms or deficits of TBI and AD/ADRD. Examples of research in this focus area include: Caregiver training, home-based support, behavioral interventions, and relationship interventions.
- **Biomarkers:** Development of strategies to diagnose, prognose, or characterize neurological changes or risk factors associated with TBI and subsequent AD/ADRD (e.g., fluid based, imaging, physiological, and clinical approaches).
- **Novel Target Identification:** Basic research (non-human) directly leading to the identification of new targets for the development of existing or new investigational medicines, drugs, or agents.
- **Epidemiological Research:** Research focusing on the incidence, distribution, and other factors relating to the health of individuals affected by TBI and subsequent AD/ADRD.

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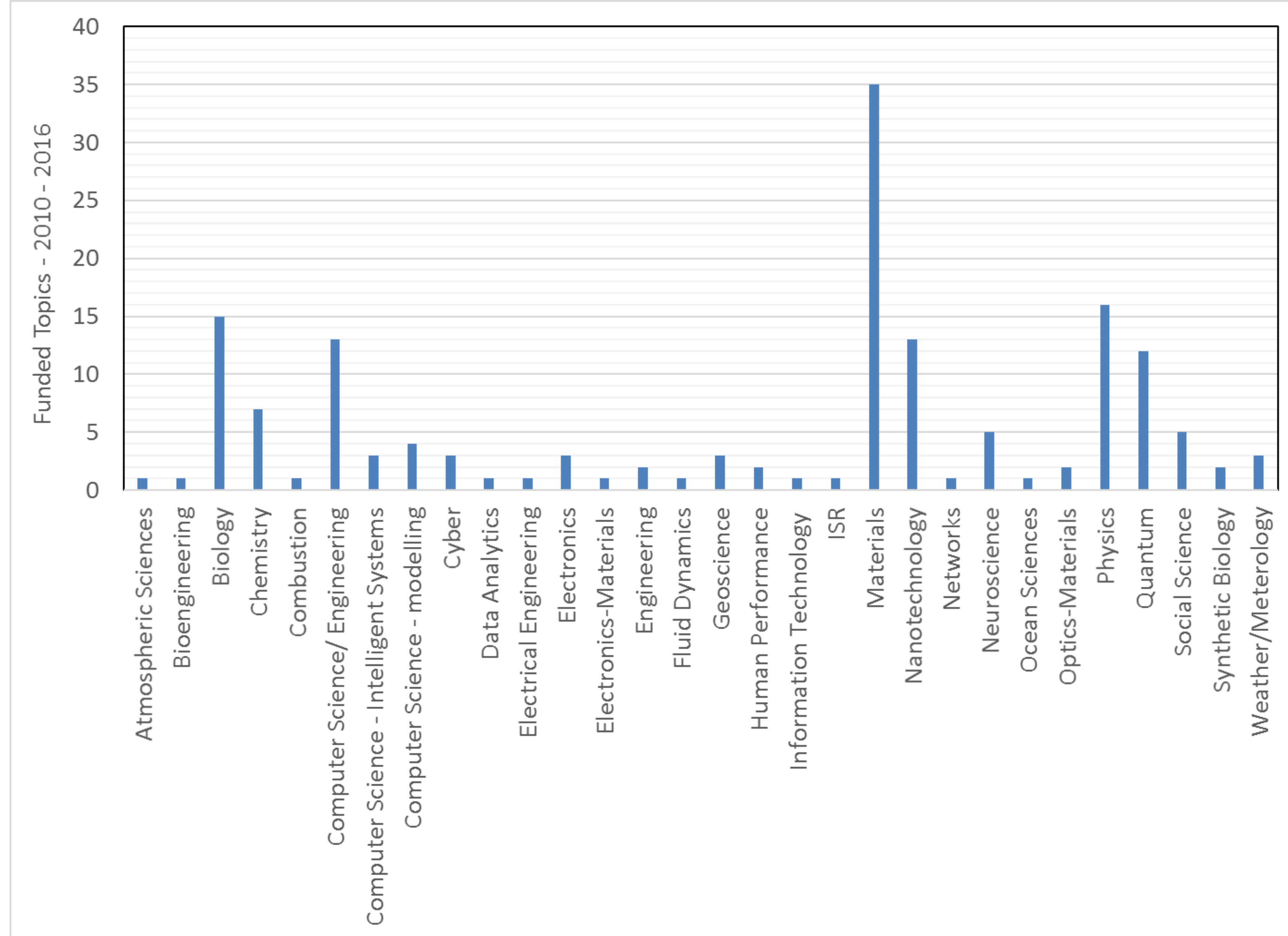
**Table 1. CDMRP Programs, Appropriations, and Applications Received and Awarded**

Research Programs Managed by the CDMRP	FY15			
	Funds Received (in millions)	Applications Received	Applications Funded	Funding Modifications Completed
Alcohol and Substance Abuse Disorders <sup>(1)</sup>	\$4.0	n/a	-	2
Amyotrophic Lateral Sclerosis	\$7.5	41	10	-
Autism	\$6.0	58	7	-
Bone Marrow Failure	\$3.2	35	5	-
Breast Cancer	\$120.0	1,627	116	-
Breast Cancer Research Semipostal <sup>(2)</sup>	\$0.5	n/a	-	2
Duchenne Muscular Dystrophy	\$3.2	27	5	-
Epilepsy	\$7.5	25	5	-
Gulf War Illness	\$20.0	74	26	2
Joint Warfighter Medical <sup>(3)</sup>	\$50.0	11	12	18
Lung Cancer	\$10.5	329	29	1
Military Burn	\$8.0	36	7	4
Multiple Sclerosis	\$5.0	40	6	-
Neurofibromatosis	\$15.0	67	21	-
Orthotics and Prosthetics Outcomes	\$10.0	62	7	-
Ovarian Cancer	\$20.0	234	26	-
Parkinson's	\$16.0	23	7	4
Peer Reviewed Alzheimer's	\$12.0	75	16	-
Peer Reviewed Cancer	\$50.0	560	110	-
Peer Reviewed Medical	\$247.5	1,294	166	7
Peer Reviewed Orthopaedic	\$30.0	57	10	1
Prostate Cancer	\$80.0	697	118	14
Reconstructive Transplant	\$15.0	94	25	1
Spinal Cord Injury	\$30.0	90	18	-
Tick-Borne Disease	n/a	n/a	n/a	n/a
Trauma Clinical	n/a	n/a	n/a	n/a
Tuberous Sclerosis	\$6.0	43	11	1
Vision	\$10.0	78	7	-

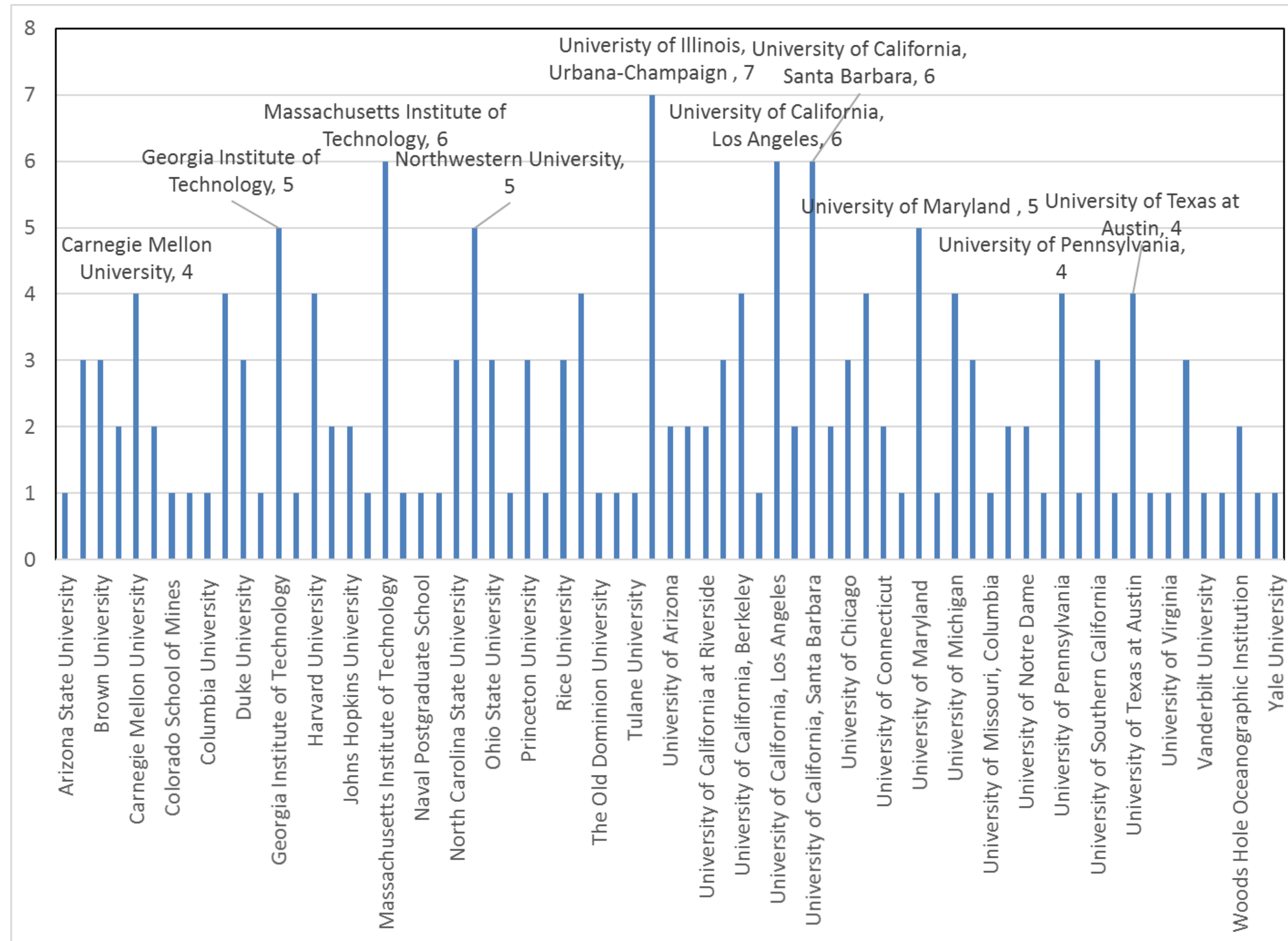
Source: CDMRP annual report  
- FY 2016

Success Rates Range  
Depending on Topic

# MURI Topics



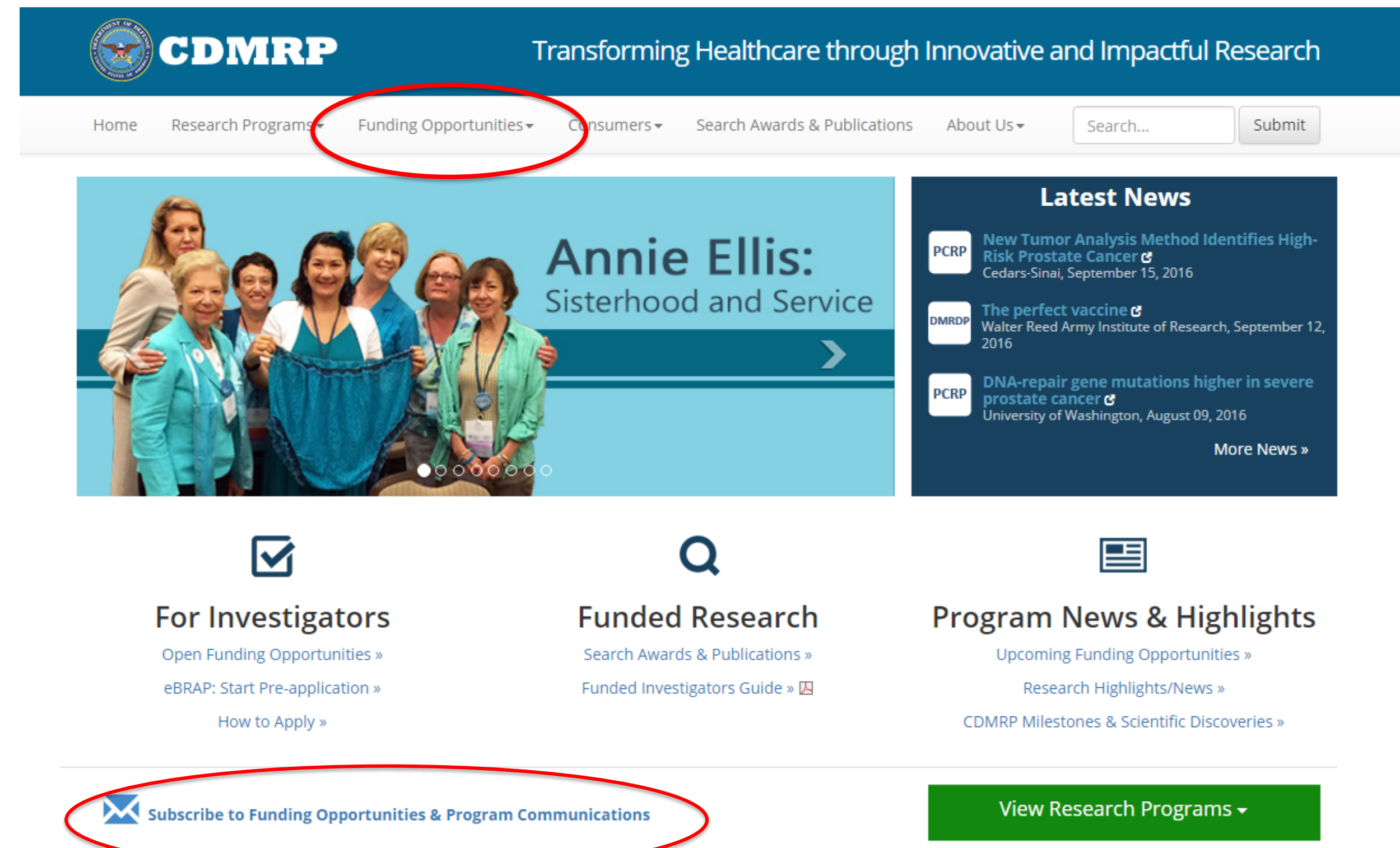
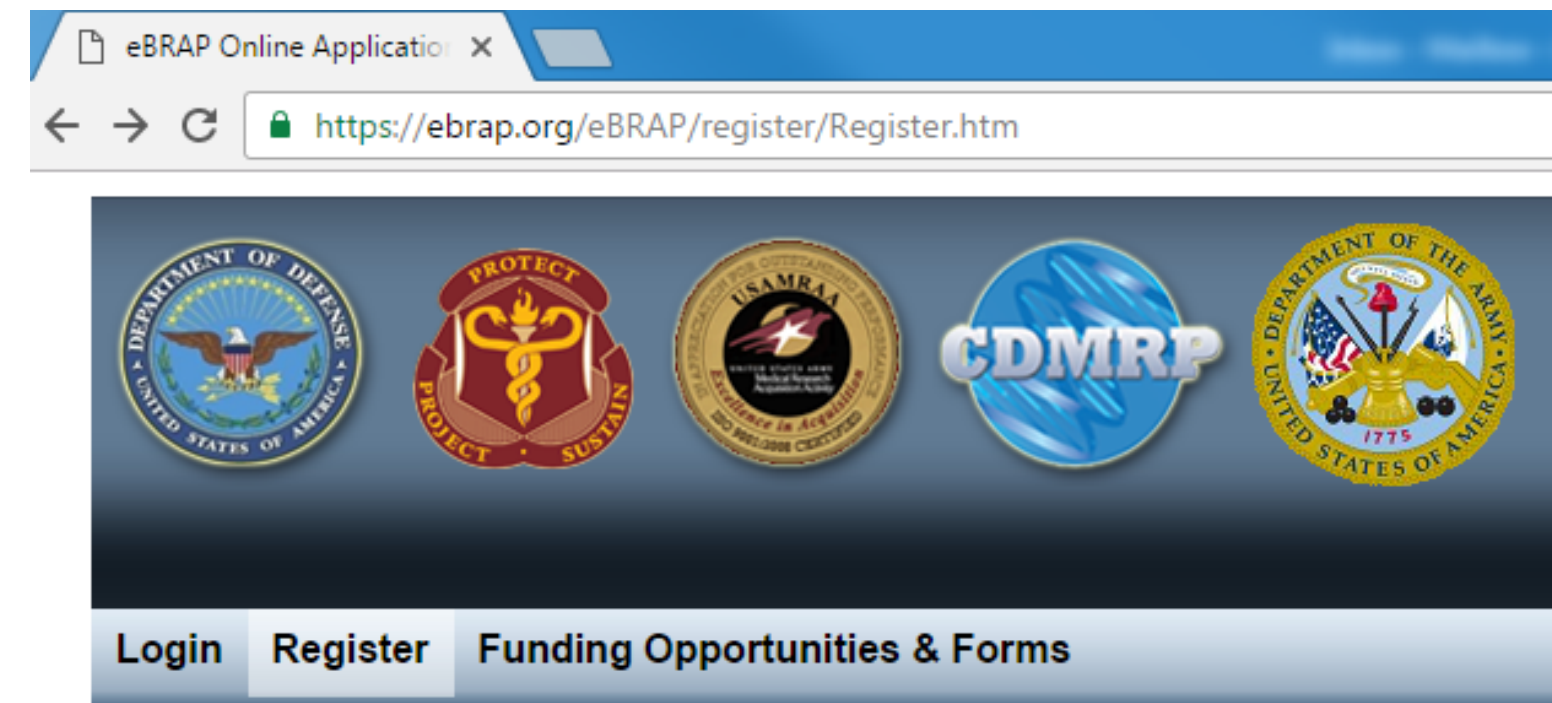
# Lead MURI Institutions



# FOA Resources

## Funding Opportunity Postings:

- [www.grants.gov](http://www.grants.gov)
- FedBizOps – [www.fbo.gov](http://www.fbo.gov)
- [www.eBRAP.org](http://www.eBRAP.org)



### Welcome to eBRAP

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