

Navigating the DOD

Lewis-Burke Associates LLC
January 2019

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Today's talk

- Introduction to Lewis-Burke Associates LLC
- General advice on interacting with federal agencies
- Overview of the Department of Defense (DOD)
 - Research, Development, Test, and Evaluation (RDT&E)
 - Defense Health Research
- Strategies for engaging DOD program officers
- Questions

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About Lewis-Burke

- Twenty-eight policy experts with range of expertise/backgrounds allow multi-layered issue teams with deep expertise in agencies and scientific/higher education areas
- Support federal relations activities to develop and implement federal strategies to pursue, shape, and create new sources of funding to increase and diversify research portfolio
- Able to engage on multiple levels:
 - Individual faculty (including early career faculty)
 - Teams of faculty
 - Associate Deans for Research
 - Deans and Center Directors
 - University leadership and campus-wide priorities/activities

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How to Utilize Lewis-Burke

- Develop an initial white paper introducing your research
- Get one-on-one help to identify relevant DOD programs and program officers
- Develop a plan to engage with relevant DOD officials
- Get advice on DOD young investigator proposals
- Contact: Reed@lewis-burke.com or Ben@lewis-burke.com

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General Advice for Interacting with Federal Agencies

- Build relationship – how can you help/support
- Make initial contact via email and be specific
- Prepare concise one-page summaries (or other appropriate formats) of your research
- Ensure follow up
- Attend relevant workshops / conferences
- Offer to serve as reviewer where appropriate
- Get feedback on your proposal from more experienced colleagues
- Do your homework:
 - Read solicitation / FOA / program home page
 - Research other awards supported through program
 - Read relevant community / workshop reports

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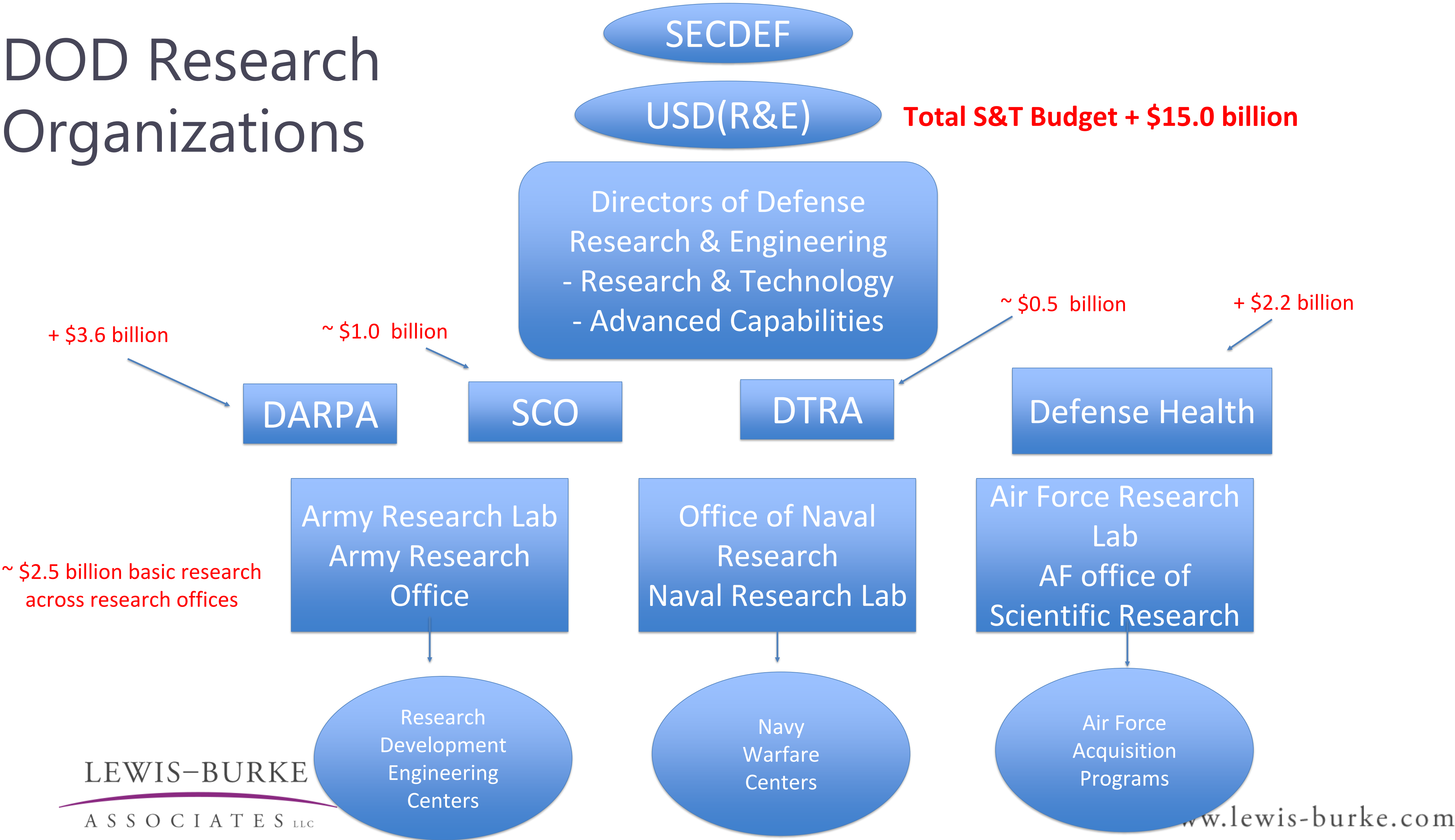
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Department of Defense (DOD)

- **FY 2019 Appropriations** - DOD received \$95.1 billion within the Research, Development, Test, and Evaluation (RDT&E) account a 7.7% increase vs. FY 2018
 - Science and Technology (S&T) accounts – Basic Research (6.1), Applied Research (6.2), and Advanced Technology Development (6.3) – received \$15.4 billion, a 7.4 % increase
 - Basic Research would receive \$2.7 billion, a 8 % increase
- DOD continues to consider new methods of engaging with the extramural research community, like ARL’s Open Campus Initiative and the Air Force’s on-going S&T study to consider new methods of conducting research
- **FY 2019 NDAA:** emphasizes secure microelectronics; quantum information science; artificial intelligence; cyber; manufacturing; Small Business Innovation Research (SBIR) programs and accessing non-traditional partners; and test and evaluation research for strategic weapons.
 - Authorizes a Joint Artificial Intelligence (AI) Research Activity and a senior official to oversee all DOD AI and machine learning activities
 - Establishes an independent National Security Commission on AI
 - Establishes a Defense quantum information science and technology R&D program
- **Major Areas of Interest:**
 - Hypersonics (FY19 - \$357 million)
 - DE Weapons (FY18 - \$661 million)
 - Quantum (FY18 - \$96 million)
 - Autonomy and Robotics (FY18 - \$1.9 billion)
 - AI and Machine Learning
 - Space capabilities (FY18 - \$619 million)
 - Cybersecurity/Information Assurance (FY18 - \$8.3 billion)
 - Trusted Micro-electronics (FY18 - \$42 million)
 - Materials/Manufacturing
 - Test and evaluation science
 - Expedited tech transition and acquisition
 - STEM Education

DOD Research Organizations



Basic Research Flagship Programs

- **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
- **Defense University Research Instrumentation Program (DURIP)** provides acquisition funding for equipment and instrumentation used to support defense-related research activities.
- **Minerva Research Initiative** initiated by former Secretary Gates in 2008, “seeks to build deeper understanding of the social, cultural, and political dynamics that shape regions of strategic interest around the world.”
- **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
- **Young Investigator Programs (YIP)** each of the Services and DARPA have early career programs to support faculty within a certain duration of receiving their PhD or being in a tenure track program

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DOD Applied/Advanced Technology Development Opportunities

- **Rapid Innovation Fund (RIF) Annual BAA:** Collaborative vehicle for small businesses to provide the department with innovative technologies that can be rapidly inserted into acquisition programs that meet specific defense needs
 - Awards of up to \$3 million for 24 months or less
 - Selection preference to small business-led proposals
- Proposals or projects should:
 - Satisfy an operational or national security need, accelerate or enhance military capability, in support of a major defense acquisition program
 - Stimulate innovative technologies, address technical risk
 - Reduce acquisition/lifecycle costs, improve timelines and thoroughness of test and evaluation outcomes
- **Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR):** Each Service manages its own SBIR/STTR solicitation open on an annual basis; often these funds go unclaimed
- **Combating Terrorism Technology Support Office (CTTSO) Annual BAA:** CTTSO identifies and develops capabilities to combat terrorism and irregular adversaries and to deliver these capabilities to DoD components and interagency partners through rapid research and development, advanced studies and technical innovation, and provision of support to U.S. military operations
 - BAA topics include: Advanced Analytics; CBRNE; Improvised Device Defeat/Explosives Countermeasures; Investigative and Forensic Science; Irregular Warfare and Evolving Threats; Personnel Protection; Physical Security; Tactical Operations Support; Training Technology Development; Surveillance, Collection, and Operations Support
 - Each portfolio includes specified requirements and an unspecified requirement for proposals related to that topic
 - Three-phase submission: One-page quad chart (Feb-March), then brief white paper no more than 12 pages (April-May), then full proposal (June-July)
 - Proposers must register on BIDS: <https://bids.cttso.gov/>

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DOD Prototyping/Demonstration Events

- **Army Expeditionary Technology Search (xTechSearch):** \$1.95 million prize competition to help the Army enhance engagements with the entrepreneurial funded community, small businesses, and other non-traditional defense partners, by:
 - Understanding the spectrum of technologies being developed commercially that may benefit the Army
 - Integrating the sector of nontraditional innovators into the Army's research and development ecosystem
 - Providing mentorship and expertise to accelerate, mature, and transition technologies of interest to the Army– Focused on six Army modernization priority areas
- **AFWERX, Service Rapid Acquisition Offices, Defense Innovation Unit:** Pilot contracts for innovative solutions to posted defense problems; seeks primarily commercial products suitable for DOD use; uses OTA
 - <https://www.diux.mil/work-with-us/companies>
- **MD5 National Security Technology Accelerator:** Collaborative community for national security innovation; host of “Hack-a-thons” and Hacking 4 Defense
 - Three portfolios
 - Education
 - Collaboration
 - Acceleration

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DARPA

FY19 ~ \$3.4 B

Areas of Focus:

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

- *Trusted microelectronics*
- *Machine learning and Artificial Intelligence – 3rd Wave/AI Next \$2 billion*
- *Cyber, information assurance*
- *Autonomous systems and counter-UAS*
- *New materials programs in FY 2019*

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Steps to Effectively Engage DOD

- Meet program managers, laboratory subject matter experts, invite government researchers to give Department seminars
 - Attend formal opportunities, e.g. DARPA proposers days or the Air Force's programmatic reviews
- Attend conferences
- Review program websites, BAAs, and past solicitations to find relevant programs
- 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 (DURIP)
 - Seed grants (flexibility)
 - Small Business (different type of funding)

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Ways to Propose

Quad Chart
- Format

BAA Number: (Number of the BAA Announcement)
Mission Area: (Title of Mission Area from BAA Package)
Requirement Number: (Only 1 Per Chart)(Document Identifier) (See para 3.1.5.1)
Proposal Title: (Brief/short Title to describe offeror's proposed effort)

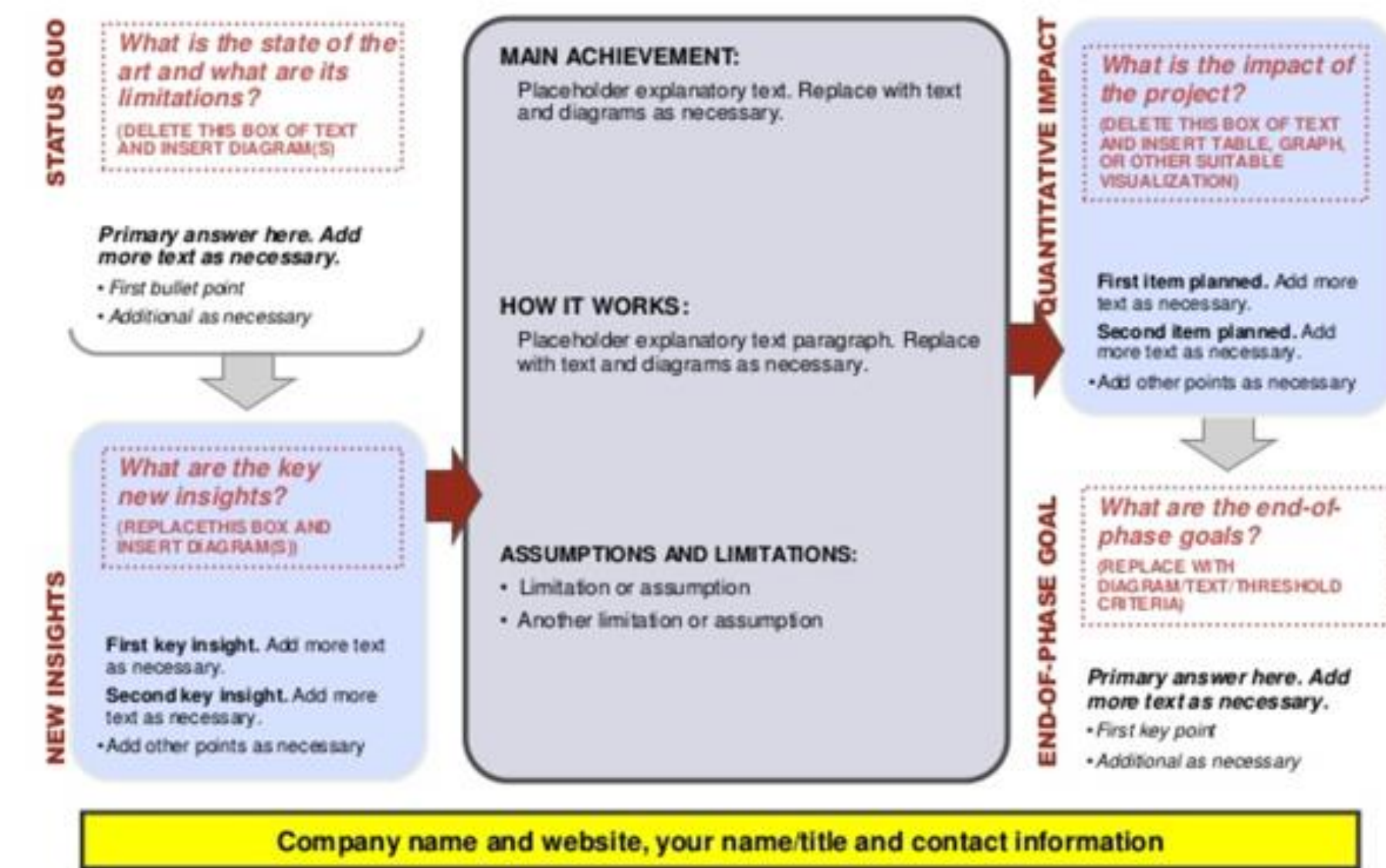
Offeror Name
Date

<p>Photograph or artist's concept of the project end-item. Ideally, this will convey the main idea of the final capability/use of the prototype. It should further give an idea of the size and weight of the end item.</p>	<p>Operational Capability: Describe how the system would provide new or enhanced operational capability to user agencies. Describe system specifications to be met. If known, list specific agencies that have expressed interest in this approach.</p>
<p>Proposed Technical Approach: Specifically, how will the problem be approached. Describe tasks to be performed. Describe any actions done to date. Describe any related on-going effort by the offeror. Describe the technology involved and how it will be used to solve the problem.</p>	<p>Rough Order of Magnitude Cost and Schedule: Provide any milestone decision points that will be required. Describe period of performance and total costs. If there are phases, provide funding per phase. Deliverables: Include all hardware and the following data deliverables: monthly status report, final report, test plans, test reports, specifications, computer program end items, user's manual, drawings, transition plan, etc.</p>

White Paper Framed by *Heilmeier Questions*

- What are you trying to do? Articulate your objectives using absolutely no jargon. What is the problem? Why is it hard?
- How is it done today, and what are the limits of current practice?
- What's new in your approach and why do you think it will be successful?
- Who cares?
- If you're successful, what difference will it make? What impact will success have? How will it be measured?
- What are the risks and the payoffs?
- How much will it cost?
- How long will it take?
- What are the midterm and final "exams" to check for success? How will progress be measured?

Project/technology title



Meetings Ahead – Opportunities to engage

January

- DHS Science and Technology Directorate will host its 2019 S&T Cybersecurity and Innovation Showcase on January 8-10, 2019 in Washington, D.C. -- POSTPONED
- [DARPA Announces Proposers Day for Hypersonics Materials and Design Program](#)

March

- DARPA host a two-day conference on Artificial Intelligence (AI) Research and Development (R&D) programs on **March 6-7, 2019**
- [Air Force to Host Pitch Day for Small Businesses in March](#)

April - Summer

- [NDIA to Host Annual DOD Science & Engineering Technology, April 2-4](#) , San Diego
- The Navy League's Annual Sea-Air-Space Exposition, [May 6-8](#), National Harbor, MD
- AFCEA Defensive Cyber Operations Symposium, [May 14-16](#), Baltimore
- Defense Communities National Summit, [June 10-12](#), Hyatt Capitol Hill
- Summer: AFOSR Program Reviews
- August: Army Science & Technology Symposium & Showcase
- August: 2018 Military Health System Research Symposium, Orlando, Fla.

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Opportunities Ahead

On the Street

- ARL Collaborative Technology Alliances & Collaborative Research Alliances 2019
 - STRONG (Human Teaming- Agent Teaming)
- DARPA
 - [BAA for Program to Use Artificial Intelligence to Identify Complex World Events](#)
 - [Solicits Warfighter Resilience Solutions with Panacea Program](#)
 - [Guaranteed Architecture for Physical Security \(GAPS\) - developing hardware and software architectures with physically provable guarantees to isolate high risk transactions and to enable systems with multilevel data security assertions.](#)
- [AFWERX Launches Advanced Microelectronics Design and Prototype Challenge Combating Terrorism Technical Support Office \(CTTSO\) to Publish BAA on January 7, 2019](#)
- [DHS S&T Launches Escape Respirator Challenge](#)
- [IARPA Releases RFI on Deep Learning](#)
- [IARPA Releases Draft BAA on TrojAI Program](#)
- [IARPA Releases Draft BAA on SAILS Program](#)
- [DTRA Releases Pre-solicitation for Support for Technical Reachback Program](#)

Anticipated

- ARL Collaborative Technology Alliances & Collaborative Research Alliances 2019
 - Artificial Intelligence Innovation Institute (A2I2)
- New Air Force Centers of Excellence — FY19 Quantum Computing
- DARPA
 - [DARPA to Release Electronics Resurgence Initiative \(ERI\) Phase II BAA in Early 2019](#)
 - [DARPA to Release BAA for Technologies for Mixed-mode Ultra Scaled Integrated Circuits \(T-MUSIC\) Program](#)
- [Manufacturing Engineering Education Program \(MEEP\) Funding Opportunity Anticipated in January](#)
- Cyber – secure the federal enterprise, protect critical infrastructure, and provide tools for law enforcement; Cyber for manufacturing and Devices; Cyber-Physical Systems Program; Smart and Autonomous Systems

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DOD Medical

- DOD Health Research Priorities: approximately \$2 billion invested
 - **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); development of chronic traumatic encephalopathy (CTE)
 - **Mental Health** – PTSD, suicide prevention; substance abuse, rural healthcare/telemedicine
 - **Pain Management** – Burn care, opioid use
 - **Infectious Disease** – prevention, diagnostics, therapeutics; surveillance; warfighter v. civilian health
 - **Combat casualty care** – surgical systems and procedures, surgical en-route care, neurotrauma, minimizing blast-related injury
 - **Health IT** – electronic health records, mobile health technology, telemedicine (in theater and at home)
 - **Chemical, Biological, Radiological, and Nuclear (CBRN) Threats** – surveillance, prevention, detection, and treatment
- DoD Programs/Projects Program Area Directorates/Joint Program Committees
 - **Combat Casualty Care**
 - **Radiation Health Effects**
 - **Military Infectious Diseases**
 - **Medical Simulation and Information Sciences**
 - **Military Operational Medicine**
 - **Clinical and Rehabilitative Medicine**
- Work executed through U.S. Army Medical Research and Materiel Command (MRMC) & Congressionally Directed Medical Research Programs (CDMRP), as well as DOD basic research offices with some medically-oriented programs

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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 – Not part of President’s Budget Request

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CDMRP – FY 2019 Topics

Bolded items reflect increases and * reflect new programs in FY 2019

- **Peer-Review Medical (\$350 m)**
- Breast Cancer (\$130 m)
- Traumatic Brain Injury and Psychological health (\$125 m)
- Prostate Cancer (\$100 m)
- Peer-Review Cancer (**\$90 m**)
- Joint Warfighter Medical (\$50 m)
- Peer-Review Orthopedic (\$30 m)
- Spinal Cord (\$30 m)
- Gulf War Illness (**\$22 m**)
- Ovarian Cancer (\$20 m)
- Kidney Cancer (**\$20 m**)
- Vision (**\$20 m**)
- Neurofibromatosis Research (\$16 m)
- Neurotoxin Exposure Treatment Parkinson's (\$16 m)
- **Combat Readiness Medical Research (\$15 m)***
- Alzheimer's Disease (\$15 m)
- Lung Cancer Research (\$14 m)
- HIV/AIDS program increase (\$12.9 m)
- Reconstructive Transplant (\$12 m)
- **Melanoma (\$10 m)***
- **Chronic Pain Management (\$10 m)***
- Trauma Clinical (\$10 m)
- Amyotrophic Lateral Sclerosis (\$10 m)
- Hearing Restoration (\$10 m)
- Orthotics and Prosthetics (\$10 m)
- Global HIV/AIDS Prevention (\$8 m)
- Military Burn (\$8 m)
- Epilepsy (\$7.5 m)
- Autism Research (\$7.5 m)
- Tuberous Sclerosis (\$6 m)
- Multiple Sclerosis (\$6 m)
- Tick-Borne Disease Research (\$5 m)
- Lupus (\$5 m)
- Alcohol and Substance Abuse (\$4 m)
- Duchenne Muscular Dystrophy (\$3.2 m)
- Bone Marrow Failure (\$3 m)

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Peer Reviewed Medical Research Program (PRMRP): FY 2019 Topics

- Acute Lung Injury
- Antimicrobial Resistance
- Arthritis
- Burn Pit Exposure
- Cardiomyopathy
- Cerebellar Ataxia
- Chronic Migraine and Post-Traumatic Headaches
- Congenital Heart Disease
- Constrictive Bronchiolitis
- Diabetes
- Dystonia
- Eating Disorders
- Emerging Infectious Diseases
- Epidermolysis Bullosa
- Focal Segmental Glomerulosclerosis
- **Frontotemporal Degeneration***
- Guillain-Barre Syndrome
- **Hemorrhage Control***
- Hepatitis B
- Hereditary Angioedema
- Hydrocephalus
- Immunomonitoring of Intestinal Transplants
- Inflammatory Bowel Diseases
- Interstitial Cystitis
- Lung Injury
- Metals Toxicology
- Mitochondrial Disease
- Musculoskeletal Disorders
- Myotonic Dystrophy
- **Nanomaterials for bone regeneration***
- Nutrition Optimization
- Pancreatitis
- Pathogen-Inactivated Blood Products
- **Polycystic Kidney Disease***
- Post-Traumatic Osteoarthritis
- Pressure Ulcers
- Pulmonary Fibrosis
- **Resilience Training***
- Respiratory Health
- Rett Syndrome
- Rheumatoid Arthritis
- Scleroderma
- Sleep Disorders
- Spinal Muscular Atrophy
- Tinnitus
- Tissue Regeneration
- Tuberculosis
- Vascular Malformations
- Women's Heart Disease

*Denotes new topic in FY 2019

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Engaging DOD for Health and Biomedical Research

- **CDMRP Feedback Submission:** CDMRP recently launched a new feedback submission feature to its website. Investigators can use the tool to submit an abstract for feedback or ask questions. Stakeholders now have the option to provide input on programs and process recommendations, as well as submit reviewer nominations and other feedback: <http://cdmrp.army.mil/contact>
- **Military Health System Research Symposium (MHSRS):** DOD hosts the annual MHSRS in August, in Orlando, Florida. MHSRS is the Department's scientific meeting, focusing on military medicine and research: <https://mhsrs.amedd.army.mil/SitePages/Home.aspx>
- **Chemical and Biological Defense Science and Technology Conference (CBD S&T):** The Defense Threat Reduction Agency (DTRA) hosts the CBD S&T annually. Through the Conference, DTRA seeks to review and project cutting-edge basic and applied research in chemical and biological defense: <https://www.cbdstconference.com/home2017/>

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Medical

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CDMRP - continued

- Proposal windows vary throughout the year
- Pre-application required
- **Highly competitive**: Success rates average around 15% (range of 10-30 percent)
- Various research awards at all career stages:

Research Awards



Career Development



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
- Evaluate adherence to award mechanism's intent (ex. new idea v. clinical trial)
- Consider portfolio composition
- Provide recommendations for funding
- No pay line
- Funds obligated up front
- No continuation funding

Examples of Programmatic Panels:

Parkinson's FY2016 Programmatic Panel:

- **Jeffery Bronstein, M.D., Ph.D.**
University of California - Los Angeles
- **Mark R. Cookson, Ph.D.**
National Institute of Aging, NIH
- **David Eidelberg, M.D.**
Feinstein Institute for Medical Research
- **Karl E. Friedl, Ph.D.** (Chair)
University of California San Francisco
- **Gretchen L. Snyder, Ph.D.**
Intra-Cellular Therapies, Inc.
- **Jeffery M. Vance, M.D., Ph.D.**
University of Miami Miller School of Medicine
- **Israel Robledo** (Consumer)
Parkinson's Action Network
- **Michael Greenbaum** (Consumer)
Parkinson's Action Network
- **Peter Schmidt, Ph.D.** (Consumer)
National Parkinson Foundation

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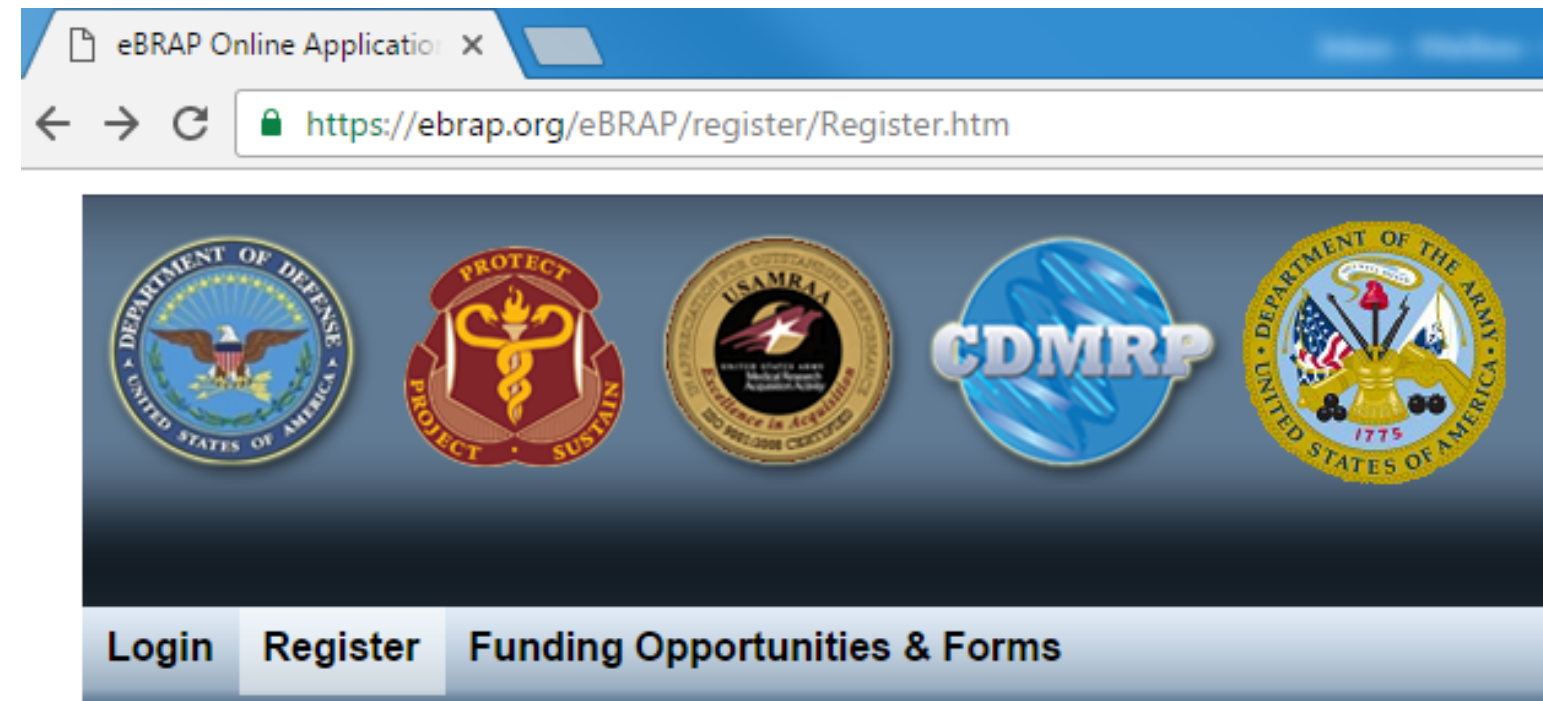
Tick-Borne Disease FY2016 Programmatic Panel:

- **Stephen Barthold, D.V.M., Ph.D.**
University of California, Davis
- **C. Ben Beard, Ph.D.**
Division of Vector-Borne Diseases, CDC
- **Sam Donta, M.D.**
Physician Consultant
- **Noel Gerald, Ph.D.**
Center for Devices and Radiological Health, FDA
- **Samuel Perdue, Ph.D.**
National Institute of Allergy and Infectious Diseases, NIH
- **Allen Richards, M.D.**
Viral and Rickettsial Diseases Department, Naval Medical Research Center
- **Jason Richardson, LTC, Ph.D.** (vision setting ad hoc)
Viral and Rickettsial Diseases Department, Naval Medical Research Center
- **Paul Ross**
Global Lyme Alliance
- **Patricia Smith**
Lyme Disease Association
- **Ellen Stromdahl, BCE**
US Army Public Health Command
- **David Walker, M.D.**
University of Texas Medical Branch

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Medical FOA Resources Funding Opportunity Postings:

- www.grants.gov
- FedBizOps – www.fbo.gov
- www.eBRAP.org



Welcome to eBRAP

Register

I am a new:

*Select from drop down

Program News and Updates

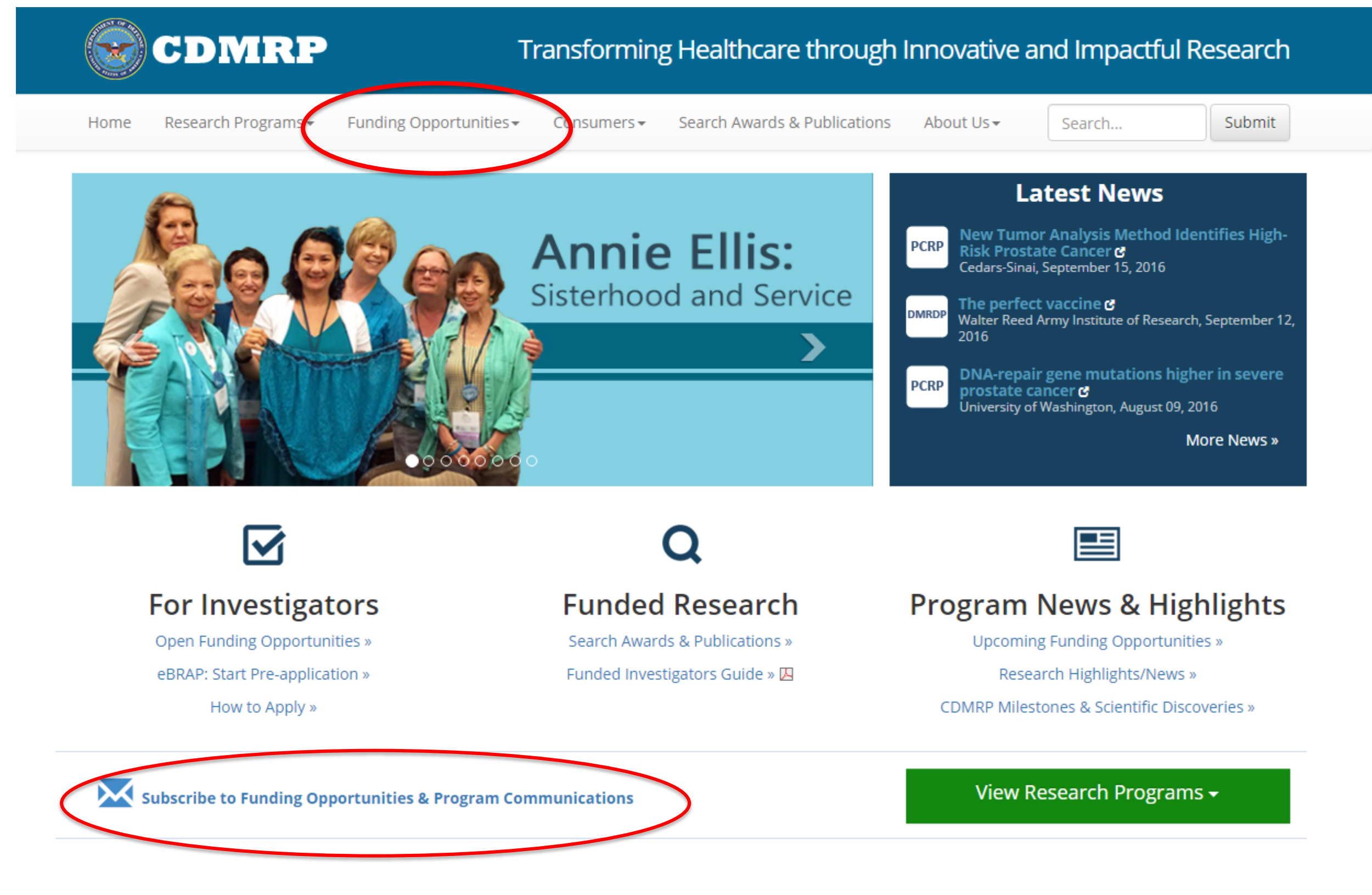
- Welcome to eBRAP. To access the user guide, please [click here](#).

Email Subscriptions

- To subscribe to program specific news and updates, please [click here](#)
- To remove your email from program subscription list, please [click here](#)

Help

- [Frequently Asked Questions](#)
- [Commonly Made Mistakes](#)
- [Contact the helpdesk/webmaster](#)



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Working with Lewis-Burke After Today

- Engage us..ASK us to
 - Identify new opportunities and programs
 - Review white papers
- Support for planning for solicitations
- Shaping opportunities
 - Develop white papers
 - Meet with agency officials
 - Be responsive both to faculty interests and agency directions
 - Different kinds of funding mechanisms may require different types of collaborations (e.g. OTA; IDIQ; center-like; SBIR; public-private; end of fiscal year)

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Questions?

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