Outline

◆ Overview of the CDMRP
◆ CDMRP Funding Opportunities
◆ Application Submission Process
◆ Application Review Process
◆ Other DoD Funding Opportunities
WHO is the CDMRP?

Department of Defense

Department of the Army

Army Medical Command

Medical Research and Materiel Command

Congressionally Directed Medical Research Programs
USAMRMC Strategic Process

Core Outcomes:
- Fielded Medical Knowledge
  - Research to produce medical knowledge

Core Programs:
- Development & Acquisition
  - Medical Advanced Development Program
- Research & Development
  - Medical Research & Technology Program
- Acquisition & Logistics
  - Medical Logistics Program

CSI Programs: Congressional Special Interest (CSI) Programs
  - Programs directed by Congress

Outcomes:
- Targeted Outcomes
Overview of the CDMRP
CONGRESSIONAL PROGRAMS:
- Manages extramural research programs directed by Congress
- Started in 1992 with Breast Cancer, now 27 programs
- Congress specifies disease area, CDMRP determines research strategy and competitively selects the best projects
- Unique public/private partnership encompassing the military, scientists, disease survivors, consumers, and policy makers
- Funds high-impact, innovative medical research to find cures, reduce the incidence of disease and injury, improve survival, and enhance the quality of life for those affected

DoD PROGRAMS:
- Manage extramural and intramural portfolios for Program Area Directorates (PADs) / Joint Program Committees (JCPs) advancing their missions

DIRECTOR:
- Col. Wanda Salzer

Congressional Programs
- Alcohol and Substance Abuse Disorders
- Amyotrophic Lateral Sclerosis
- Autism
- Bone Marrow Failure
- Breast Cancer
- Duchenne Muscular Dystrophy
- Epilepsy
- Gulf War Illness
- Joint Warfighter Medical
- Lung Cancer
- Military Burn
- Multiple Sclerosis
- Neurofibromatosis
- Neurotoxin Exposure Treatment Parkinson’s
- Orthotics and Prosthetics

DoD Programs
- Ovarian Cancer
- Peer Reviewed Alzheimer’s
- Peer Reviewed Cancer
- Peer Reviewed Medical
- Peer Reviewed Orthopaedic
- Prostate Cancer
- Reconstructive Transplant
- Spinal Cord Injury
- Tick-Borne Disease
- Trauma Clinical
- Tuberous Sclerosis Complex
- Vision
- Defense Medical R & D
- Defense Medical R & D CSI Restoral
- Psychological Health and Traumatic Brain Injury
Vision and Mission

◆ **Vision**

Transform healthcare for Service Members and the American public through innovative and impactful research

◆ **Mission**

Responsibly manage collaborative research that discovers, develops, and delivers health care solutions for Service Members, Veterans and the American public
In the early 1990’s, grassroots efforts heightened political awareness of breast cancer

Congress appropriated $210M to the FY93 DoD budget for a new Breast Cancer Research Program (BCRP)

USAMRMC was directed to manage the BCRP

The Army sought the advise of the National Academy of Medicine (previously Institute of Medicine), which resulted in:

- A two-tier review process
- A new model for research – incorporating consumers into program policy, investment strategy, and research focus

Since 1996, additional research programs and topics have been added by Congress and administratively managed by CDMRP
Hallmarks

- Targeted research funds added to DoD budget by Congress
- Consumers participate throughout process
- National Academy of Medicine (IOM) recommended model for application review
- Funds high-impact, innovative research
- Each program’s vision and investment strategy are adapted annually, allowing rapid response to changing needs
- Avoid Duplication with other funding agencies
  - Fills Unfunded/Unmet Gaps
- Funding flexibility
  - Funds obligated up-front; limited out-year budget commitments
  - Limited continuation funding
  - No “pay line;” funding recommendations based on portfolio composition, adherence to intent of mechanism, relative impact in addition to technical merit
Unique Partnerships

Consumers
- Demonstrate need
- Participate at all levels
- Passion and perspective

Researchers
- Innovation and gaps
- Risk/Benefit
- Product-oriented

Congress
- Add funds to budget
- Targeted guidance

DoD
- Program management
- Contracting actions
- Regulatory requirements

IMPROVE HEALTH OUTCOME
Consumers

Grassroots consumers heightened political awareness of breast cancer that led to increased funding for cancer research and the 1992 creation of the CDMRP. The voices and experiences of consumers continue to play a pivotal role in the establishment and growth of research programs.

Over 2,100 consumers representing over 1,000 organizations have served on Peer Review and Programmatic Review panels.
## FY16 Funding

<table>
<thead>
<tr>
<th>Program</th>
<th>$M</th>
<th>Program</th>
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<td>Alcohol and Substance Abuse Disorders</td>
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<td>Amyotrophic Lateral Sclerosis</td>
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<td>Peer Reviewed Cancer (13 Topics)</td>
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<tr>
<td>Autism</td>
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<td>Peer Reviewed Medical (39 Topics)</td>
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<td>Bone Marrow Failure</td>
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<td>Peer Reviewed Orthopaedic</td>
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<td>Epilepsy</td>
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<td>Gulf War Illness</td>
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<td>Joint Warfighter Medical*</td>
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<td>Trauma Clinical Research</td>
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<td>Lung Cancer</td>
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<td>Military Burn</td>
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<td>Multiple Sclerosis</td>
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<td>Programs Executed on behalf of Others:</td>
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<td>Neurofibromatosis</td>
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<td>Neurotoxin Exposure Treatment Parkinson’s</td>
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<td>Orthotics and Prosthetics Outcomes</td>
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<td>Defense Medical R&amp;D</td>
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<td>Ovarian Cancer</td>
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<td>Defense Medical R&amp;D CSI Restoral</td>
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<tr>
<td></td>
<td></td>
<td>Psychological Health and Traumatic Brain Injury*</td>
<td>$125.0</td>
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</table>

* CDMRP is assisting with the management of a specified portion of a larger appropriation(s)  

**TOTAL** = $1.468B
FY16 Topic Areas for Peer Reviewed Cancer Research

- Bladder Cancer
- Colorectal Cancer
- Immunotherapy
- Kidney Cancer
- Listeria Vaccine for Cancer
- Liver Cancer
- Lymphoma
- Melanoma and other skin cancers
- Mesothelioma
- Neuroblastoma
- Pancreatic Cancer
- Pediatric Brain Tumors
- Stomach Cancer

Applicants must address at least one of the Topic Areas as directed by Congress
FY16 Topic Areas for Peer Reviewed Medical Research

◆ Acute Lung Injury
◆ Antimicrobial Resistance
◆ Chronic Migraine and Post-Traumatic Headache
◆ Congenital Heart Disease
◆ Constrictive Bronchiolitis
◆ Diabetes
◆ Dystonia
◆ Emerging Infectious Diseases
◆ Focal Segmental Glomerulosclerosis
◆ Fragile X Syndrome
◆ Hepatitis B
◆ Hereditary Angioedema
◆ Hydrocephalus
◆ Inflammatory Bowel Disease
◆ Influenza
◆ Integrative Medicine
◆ Interstitial Cystitis
◆ Lupus
◆ Malaria
◆ Metals Toxicology
◆ Mitochondrial Disease
◆ Nanomaterials for Bone Regeneration
◆ Non-Opioid Pain Management
◆ Pancreatitis
◆ Pathogen-Inactivated Dried Plasma
◆ Polycystic Kidney Disease
◆ Post-Traumatic Osteoarthritis
◆ Psychotropic Medications
◆ Pulmonary Fibrosis
◆ Respiratory Health
◆ Rett Syndrome
◆ Rheumatoid Arthritis
◆ Scleroderma
◆ Sleep Disorders
◆ Tinnitus
◆ Tuberculosis
◆ Vaccine Development for Infectious Diseases
◆ Vascular Malformation
◆ Women’s Heart Disease

Applicants must address at least one of the Topic Areas as directed by Congress.
As directed by the Office of the Assistant Secretary of Defense for Health Affairs, the Defense Health Agency (DHA) Research, Development, and Acquisition (RDA) Directorate has oversight for all Defense Health Programs (DHP) Research, Development, Test, and Evaluation (RDT&E) appropriations

- **DHA RDA Directorate Vision:** Advance collaborative, innovative medical research and development to improve military community health and save lives on and off the battlefield.
- Joint, integrated focus includes Army, Navy, and Air Force
- Six core research program areas exist within the DHA RDA Directorate

**CDMRP provides program and award management support to the DHA RDA Directorate**

- DHP Congressional Special Interest programs
- DHP Core research areas (Defense Medical Research and Development)
Joint Program Committees (JCPs)
DHP Core Research Areas

**Medical Simulation and Information Sciences (JPC-1)**
- Medical Simulation and Training
- Health Informatics and Information Technology

**Military Infectious Diseases (JPC-2)**
- Polytrauma and Blast Injury

**Military Operational Medicine (JPC-5)**
- Injury Prevention and Reduction
- Psychological Health and Resilience
- Physiological Health
- Environmental Health and Performance

**Combat Casualty Care (JPC-6)**
- Hemorrhage and Resuscitation
- Joint En Route Care
- Neurotrauma
- Traumatic Tissue Injury
- Forward Surgical/Intensive Critical Care
- Military Medical Photonics

**Radiation Health Effects (JPC-7)**
- Biomedical Technology for Radiation Countermeasures

**Clinical & Rehabilitative Medicine (JPC-8)**
- Sensory Systems
- Regenerative Medicine
- Neuromusculoskeletal Injuries
- Pain Management

FY15 – JPC Core and Restoral ($284M)
The CDMRP is THE leading U.S. funder for Neurofibromatosis research

The CDMRP is the 2\textsuperscript{nd} largest U.S. funder for research in:

- Breast cancer
- Gulf War Illness
- Lung cancer
- Ovarian cancer
- Prostate cancer
- Tuberous sclerosis complex
CDMRP Funding Opportunities
Program Cycle

Congressional Appropriation
( Restart cycle annually)

Stakeholders Meetings*

Approval Authority Decision

Award Negotiations

Award Management

Vision Setting

Program Announcement Release

Funding Recommendations

Research Outcomes

Pre-Application Receipt

Pre-Application Screening and Invitation to Submit*

Programmatic Panel

Programmatic Review

Peer Review

Awards Management

Application Receipt

Month 6

Month 12

Month 18

To Month 24

Annual Appropriation, Review, and Award Cycle

Research News and Reports

To Month 84

*As needed
At Vision Setting each Year, the Programmatic Panel recommends and investment strategy, considering factors such as:

- Current research landscape
- Emerging technologies
- Research gaps
- Impact
- Portfolio composition
Award Mechanisms Pipeline

Career Development
Funding for all career stages

Predoctoral ➔ Postdoctoral ➔ Physician Scientist ➔ New Investigator ➔ Established Investigator

Initial Concepts ➔ Early Ideas ➔ Clinical/Translational ➔ Team Science ➔ Clinical Trials

Research Awards
Closing gaps in research through innovative and impactful research
Funding Opportunities

- Numerous types of award mechanisms
  - Tailored to the goals of each program
  - May vary from year to year

- Each funding opportunity is made available through a Program Announcement (PA) or program-specific Broad Agency Announcement (BAA)

- Pre-announcement release (CDMRP website and email blast)

- Funding Opportunity Postings
  - Grants.gov
  - CDMRP eBRAP System (intramural)
  - CDMRP website
  - FedBizOps (BAA)
Funding Opportunities on Grants.gov

Search for funding opportunities through “Search Grants”
Funding Opportunities on Grants.gov

Search Grants by CFDA# 12.420 for USAMRMC opportunities

<table>
<thead>
<tr>
<th>Funding Opportunity Number</th>
<th>Opportunity Title</th>
<th>Agency</th>
<th>Posted Date</th>
<th>Close Date</th>
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<tr>
<td>W81XWH-15-CMRMP-VPSA</td>
<td>DoD FY15 Vision Prosthesis Pilot Study Award</td>
<td>Dept. of the Army - USAMRAA</td>
<td>05/21/2015</td>
<td>07/22/2015</td>
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<td>W81XWH-15-PCRP-HDRA</td>
<td>DoD Prostate Cancer Dr. Barbara Terry-Koroma Health Disparity Research Award</td>
<td>Dept. of the Army - USAMRAA</td>
<td>05/20/2015</td>
<td>09/24/2015</td>
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<td>W81XWH-15-PCRP-IDA</td>
<td>DoD Prostate Cancer Idea Development Award</td>
<td>Dept. of the Army - USAMRAA</td>
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<td>09/24/2015</td>
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<td>W81XWH-15-PCRP-IA</td>
<td>DoD Prostate Cancer Impact Award</td>
<td>Dept. of the Army - USAMRAA</td>
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<td>09/24/2015</td>
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<td>W81XWH-15-PCRP-ERA</td>
<td>DoD Prostate Cancer Exceptional Responders Award</td>
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<td>W81XWH-15-PCRP-PRTA</td>
<td>DoD Prostate Cancer Physician Research Training Award</td>
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<td>W81XWH-15-PCRP-FCTPA</td>
<td>DoD Prostate Cancer Cooperative Undergraduate Historically Black Colleges and Universities Student Training Program Award</td>
<td>Dept. of the Army - USAMRAA</td>
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<td>W81XWH-15-GWIRP-CTA</td>
<td>DoD Gulf War Illness Clinical Trial Award</td>
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<td>05/14/2015</td>
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<td>W81XWH-15-GWIRP-ITEA</td>
<td>DoD Gulf War Illness Innovative Treatment Evaluation Award</td>
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<td>10/29/2015</td>
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<td>W81XWH-15-GWIRP-IRRA</td>
<td>DoD Gulf War Illness Investigator-Initiated Research Award</td>
<td>Dept. of the Army - USAMRAA</td>
<td>05/14/2015</td>
<td>10/29/2015</td>
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</tbody>
</table>
Funding Opportunities on the CDMRP Website

Visit Us At: http://cdmrp.army.mil

For Investigators
- Open Funding Opportunities
- eBRAP: Start Pre-application
- How to Apply

Funded Research
- Search Awards & Publications
- Funded Investigators Guide

Program News & Highlights
- Upcoming Funding Opportunities
- Research Highlights/News

Transforming Healthcare through Innovative and Impactful Research
Funding Opportunities on eBRAP

Visit the Electronic Biomedical Research Application Portal (eBRAP) at: https://ebrap.org
CDMRP Application Submission Process
CDMRP uses the Electronic Biomedical Research Application Portal (eBRAP) to process electronic application submissions

- Enables communication with the worldwide research community
- Provides web-based accessibility for research community
  - eBRAP requires log-in username and password
- Computer-automated processes streamlines workflow for pre-application and full application retrieval and processing
- Enables researchers to review and modify Grants.gov application components during the verification period specified in the PA or BAA
Subscribe to email notifications in eBRAP

Select the Programs for which you want to receive email notices

- Alcohol and Substance Abuse Research Program
- Amyotrophic Lateral Sclerosis Research Program
- Autism Research Program
- Bone Marrow Failure Research Program
- Breast Cancer Research Program
- Broad Agency Announcement
- Chiropractic Research Program
- Military Burn Research Program
- Multiple Sclerosis Research Program
- Myeloproliferative Disease Research Program
- Neurofibromatosis Research Program
- Neurotoxin Exposure Treatment Parkinson’s Research
- Orthotics and Prosthetics Outcomes Research Program
- Osteoporosis Research Program
Before You Apply – Register in eBRAP

◆ User Registration
  ❖ Principal Investigator (PI)
  ❖ Business Official (BO)
  ❖ Account Administrator
  ❖ Authorized Organizational Representative (AOR)

◆ During registration, the PI must request to be affiliated with his/her organization
  ❖ If the organization listed is not registered, the PI must invite the AOR to register the organization
How to Apply – Step 1: Submit Your Pre-Application

STEP 1: Pre-Application submission in eBRAP *(required!)*

- **Type of pre-application depends on the award mechanism**
  - Letter of Intent: will not be reviewed; no invitation is required for application submission
  - Preproposal: will be reviewed; invitation is required for application submission

- **Follow Tabs 2-5 in any order**

- **Pre-application is submitted by the PI in Tab 6**

- **Pre-application submission is MANDATORY and must be ON TIME**

- **Tips for success!**
  - Read the Announcement carefully
  - Choose the correct funding opportunity and “option”
  - Check spelling of names and emails
  - Start the process early to allow time to resolve issues
Specified in Announcement

Page and/or text field limits

Real-time auto-compliance

Auto-email notification

You may get a FREE copy of the Adobe Reader® to view the PDF on this page
How to Apply –
Step 2: Submit Your Application

STEP 2: Application submission in Grants.gov

♦ If the pre-application was a pre-proposal, an invitation is required
♦ Sponsored Program Office *(or equivalent)* submits through Grants.gov
♦ Submissions must be on time; no grace period
♦ Adhere strictly to the Announcement requirements
STEP 3:

Review & Modify Full Application

◆ Verification Period
  ❖ Auto-email notification after eBRAP has processed the Grants.gov application
  ❖ Review and modify allowable components – not Project Narrative or Budget
  ❖ Affiliation with organization is required

◆ Tips for success!
  ❖ Choose correct Grants.gov application package
  ❖ Check spelling of names and emails; must match those in pre-application
  ❖ Include eBRAP log number
Pitfalls to Avoid in Application Submission

- Do not include Programmatic Panel members for the program and fiscal year to which you are applying
- Do not exceed the page limits; check files after creating PDF version
- Do not miss the submission deadline
  - Grants.gov validation may take up to 72 hours
  - System-to-system submissions are sometimes problematic
  - Application verification in eBRAP is possible before the deadline
- Submit the correct Project Narrative and Budget – these components cannot be modified during the verification period in eBRAP
CDMRP Application Review Processes

CDMRP Goal:

Provide a fair and thorough review for every application
Mission: Responsibly manage collaborative research that discovers, develops, and delivers health care solutions for Service Members, Veterans and the American public.

- Criterion-based evaluation of full proposal
- Determination of “absolute” scientific merit
- Outcome: Written critique and scores for individual criteria and overall merit
  - No standing peer review panels
  - No contact between reviewers and applicants

- Comparison among proposals of high scientific merit
- Determination of adherence to intent and program relevance
- Outcome: Funding recommendations
  - No “pay line” (portfolio balance)
  - Funds obligated up front; no out-year budget commitments (but milestones imposed)
  - No continuation funding
First Tier: Peer Review

◆ How the evaluation process works
  ❖ Technical merit assessment based on an ideal application
  ❖ Criteria-based evaluation of entire application

◆ Peer Reviewers
  ❖ Panels comprised of scientific and consumer reviewers
  ❖ No standing panels
  ❖ Reviewers recruited based on expertise needed
  ❖ Identities are not made known to applicants; contact between applicants and reviewers not permitted

◆ Outcome: Summary Statement
Second Tier: Programmatic Review

◆ How the evaluation process works
  ❖ Comparison-based
  ❖ Strong scientific merit
  ❖ Adherence to award mechanism’s intent
  ❖ Potential for impact
  ❖ Program relevance
  ❖ Consideration of portfolio composition

◆ Programmatic reviewers
  ❖ Programmatic Panel (or equivalent)
  ❖ Ad hoc reviewers

◆ Outcome: Funding recommendations
Understanding the intent of the award mechanism and review criteria is critical for a successful grant application.
Strategies for Success

◆ Propose solutions to important problems: IMPACT
◆ Identify gap(s) that will be filled: INNOVATION
◆ Align the proposed work with guidance from the Announcement: RELEVANCE
◆ Justify a technically sound plan with clear approaches for contingencies: FEASIBILITY
  ❖ Include evidence of appropriate EXPERTISE (collaboration, consultants, etc.)
  ❖ Ensure the study is APPROPRIATELY POWERED for the proposed research outcome
  ❖ Explain the proposed work with CLARITY and UNBURDENED by jargon
  ❖ Demonstrate AVAILABILITY and ACCESS to critical resources, reagents, and/or subject populations
  ❖ Respect the different audiences of the technical and lay abstracts and COMMUNICATE effectively
  ❖ Don’t break the rules for deadlines or requirements – BE COMPLIANT
Questions on CDMRP Application Submission or Review?
Other DoD Funding Opportunities
Medical Research & Development at USAMRMC

**Mission:**
Responsively and responsibly create, develop, deliver, and sustain medical capabilities for the Warfighter.

**Vision:**
Lead the advancement of military medicine.
**USAMRMC Funding Opportunities**

**Broad Agency Announcement (BAA)**
- FY16 BAA, posted 1 October 2015
- Continuously open through 30 September 2016
- Announcement lists topic areas of current interest

**Postings**
- USAMRAA: http://www.usamraa.army.mil/
- Grants.gov: http://www.grants.gov (F.O. Number W81XWH-16-R-BAA1)

**Process**
- Pre-applications submitted to eBRAP.org
- Full Applications are invited only; submitted through Grants.gov
- Full Applications undergo external peer review
New Products and Ideas (NPI)

- NPI User Registration
- Submission Form
- FAQs
Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) Programs

- Goal to utilize unique features of small businesses to provide innovation for U.S. Army’s mission and needs
- https://www.armysbir.army.mil
- https://www.dodsbir.net
- SBIR must involve small business
- STTR requires partnership of small business with universities, federally funded R&D centers, and other non-profit research institutions
- Multiple SBIR solicitations throughout the year
  - USAMRMC releases about 20 topics each year and in FY14 awarded 56 phase I and 27 phase II SBIR contracts
  - Topics change with every solicitation