MDA Advanced Research
Broad Agency Announcement and OSD
Rapid Innovation Funding Overview

Advanced Technology
Missile Defense Agency
Advanced Research

Technical Objectives

− Fund relevant, advanced Research and Development (R&D) at domestic universities and small businesses
− Exploit breakthroughs in science to offer robust technical improvements to BMDS
− Build portfolio of revolutionary technology to support and enhance BMDS
− Develop holistic partnerships
− Educate future scientists and engineers
# Planned Technology Investments

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<tr>
<th>Investment Area</th>
<th>Vision</th>
<th>Investment Roadmap</th>
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<td><strong>Persistent Discrimination</strong></td>
<td>Capitalize on persistent, multi-phenomenology sensors to maximize the discrimination capability of our BMDS architecture</td>
<td>• Precision tracking demonstrations</td>
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<td><strong>High Power Lasers</strong></td>
<td>Integrate high power lasers into the BMDS architecture for a broad range of missile defense missions</td>
<td>• Discrimination demonstrations</td>
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<td><strong>Common Kill Vehicle Technology</strong></td>
<td>Develop common kill vehicle technology for insertion into GBI and SM-3 programs that addresses the future threat</td>
<td>• Deploy Airborne or Space-based Prototypes</td>
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<td><strong>Advanced Research</strong></td>
<td>Pursue high-risk and high pay-off technologies for the next Ballistic Missile Defense System</td>
<td>• Lab experiments</td>
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<td>• UAV-borne Laser Flight tests</td>
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<td>• Component R &amp; D</td>
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<td>• Demonstrate prototypes</td>
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<td>• Develop and Deploy Discriminating and Multi-object kill vehicles</td>
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<td>• Exploit emerging technologies</td>
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<td>• Partner with our Nation’s small businesses and universities</td>
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<td>• Transform new technologies into applications for insertion into the BMDS</td>
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![Image of Experimentation, Proof of Concept, Development](image)
What is a Broad Agency Announcements (BAA)

• A competitive research and development contracting approach in the form of a general agency announcement:
  - Identifies areas of research interest (basic and applied)
  - Includes criteria for selecting proposals
  - Solicits participation from all offerors capable of satisfying the Governments needs

• Primary objective is to encourage participation by science and technology firms and educational institutions in meeting general research and development goals for innovative ideas and approaches.

• Meet full and open competition requirements "The Competition in Contracting Act of 1984."

• Evaluates proposals based on peer or scientific reviews against individual merits rather than against each other.
Broad Agency Announcements (BAA) Program

- **Missile Defense Science & Technology Advanced Research (MSTAR)**
  - Open continuously for proposals from universities
    - Broad Agency Announcement (http://www.fbo.gov)
  - Research topics revised annually
  - Basic and applied research
  - MDA is seeking strategic alliances with universities
  - Two year base period with one year option
    - Base period $400,000
    - Option year $200,000

- **Advanced Technology Innovation Broad Agency Announcement (ATI BAA)**
  - Open continuously to university and commercial vendors
  - Contract value not limited
  - Link: http://www.mda.mil/business/research_opportunities.html
BAA: Source Selection

• MDA receives white paper

• Evaluation team evaluates and makes recommendations for award based on a peer or scientific review process IAW with FAR 35.016(d) and (e)

• Technical evaluator(s) uses criteria IAW the BAA to score white paper
  - Technical merit
  - Capabilities
  - Management

• BAA Selection Official makes selections based on the evaluation criteria IAW the BAA, and MDA funding and technology priorities
Rapid Innovation Fund (RIF) Program

• Established under the FY11 Defense Authorization Act (Section 1073)
  – A competitive, merit-based program
  – Accelerate fielding of innovative technologies into military systems
  – All MDA RIF projects are SBIR Phase II Follow-on

• Key Requirements:
  – Satisfy an operational or national security need
    – Accelerate or enhance military capability
  – Reduce
    – Technical risk
    – Cost: Development, acquisition, sustainment, or lifecycle
  – Improve timeliness and quality of test and evaluation outcome
  – Provide approach for use by an acquisition program
  – Typical award length 24 months
  – Award values up to $3M
RIF: Source Selection

- Two-Step Competitive Process
  - **Step 1:**
    - Military Services and/or OSD Office of Small Business Programs (OSBP) issue solicitations (BAAs)
    - Open for 60 Days
    - Industry Response: 3-5 page White Paper and Quad Chart
    - Evaluations are rated
  - **Step 2:**
    - Highest rated evaluations receive invite to submit full proposal
    - Successful proposals lead to award
Suggested Resources

Missile Defense Agency SBIR and STTR Programs
The Missile Defense Agency (MDA) Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) programs issue solicitations once per year. MDA participates within the Department of Defense (DoD) 3 and 8 solicitations, which are issued simultaneously in the August timeframe. MDA makes SBIR/STTR Phase I awards up to $150k and the normal Phase II award amount is $1.6M. Previous SBIR and STTR topics, including the most recent SBIR (09.3) and STTR (08.8) topics, are available on the DoD SBIR/STTR website.

The goal of the MDA SBIR/STTR Program is to encourage projects that address MDA’s Ballistic Missile Defense System (BMDS) needs. Address BMDS gaps or foster new BMDS capabilities and to increase award amounts on projects based upon increased funding from the DoD.

The MDA SBIR program also issues one Phase I Transition (PIT) Solicitation per year. The purpose of the PIT program is to encourage the transition of SBIR projects into the BMDS. Only firms with active DoD SBIR Phase II contracts are able to participate in the PIT program. Learn more about the PIT program in the DoD SBIR/STTR Transition section of the website.

DoD Listserv:
Since October 2002, all DoD SBIR and STTR solicitations are included in the Government Public Announcement archive. To receive e-mail notifications of solicitations and events, subscribe to the Listserv.

Quick Links
- 2009 MDA Math Challenge
  - Week
- Proposed European Assets
- 2009 BMDS Booklet (pdf)
- Budget Information
- Technology Transfer
- Environmental Information
- MDA Safety and Quality Information
- RSS Feeds

Approved for Public Release
14-MDA-7887 (23 Jun 14)
Web Sites

www.mda.mil
- Missile Defense News, Images, Videos, Fact Sheets
- BMDS Overview, BMD Basics

www.mdasbir.com
- MDA SBIR/STTR Information
- Past awards
- “How To” tutorials for submitting proposals

www.mdatechnology.net
- Google indexing of 300+ individual articles
- Company News links visitors to press releases
- Real-time uploads of technology info and fact sheets