

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

Advanced Technology Missile Defense Agency



Advanced Research

Technical Objectives

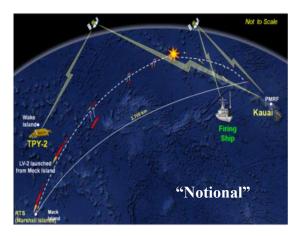
- Fund relevant, advanced Research and Development (R&D) at domestic universities and small businesses
- Exploit breakthroughs in science to offer robust technical improvements to BMDS
- Build portfolio of revolutionary technology to support and enhance BMDS
- Develop holistic partnerships
- Educate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



Solid Divert & ACS



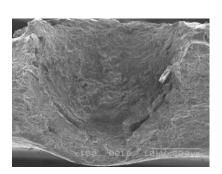
High Energy Lasers



Data Fusion and Tracking Algorithms



Plume Signature Modeling



High Velocity Impact Studies



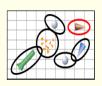
Planned Technology Investments

Investment Area

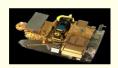
Vision

Investment Roadmap

Persistent Discrimination



Capitalize on persistent, multiphenomenology sensors to maximize the discrimination capability of our BMDS architecture



- Precision tracking demonstrations
- Discrimination demonstrations
- Deploy Airborne or Space-based Prototypes

High Power Lasers

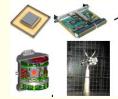


Integrate high power lasers into the BMDS architecture for a broad range of missile defense missions



- Lab experiments
- UAV-borne Laser Flight tests

Common Kill Vehicle Technology



Develop common kill vehicle technology for insertion into GBI and SM-3 programs that addresses the future threat



- · Component R & D
- Demonstrate prototypes
- Develop and Deploy Discriminating and Multi-object kill vehicles

Advanced Research



Pursue high-risk and high pay-off technologies for the next Ballistic Missile Defense System



- Exploit emerging technologies
- Partner with our Nation's small businesses and universities
- Transform new technologies into applications for insertion into the BMDS

Experimentation

Proof of Concept

Development



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.

- 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



MDA SBIR Industry Day 2008 - Presentations: MDA SBIR/STTR Industry Day recently took place on August 6-7 at the Gaylord National Hotel in National Harbor, MD. The Industry Day focused on enhancing the SBIR and STTR Process for MDA and the Small Business Community, Presentations from the conference are currently available for download.

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 narticinates within the Denartment of Defense (DoD), 3. and .B solicitation, which is issued simultaneously in the August timeframe, MDA makes SBIR/STTR Phase I awards up to \$100k and the nominal Phase II award amount is \$1.0M. Previous SBIR and STTR topics, including the most recent SBIR 08.3 and STTR 08.8 topics, are available on the

The goal of the MDA SBIR/STTR Program is to prioritize projects at the Ballistic Missile Defense System (BMDS) level, address BMDS gaps or foster new BMDS capabilities and to increase award amounts on projects based upon increased relevance to the BMDS.

The MDA SBIR program also issues one Phase II Transition (P2T) solicitation per year. The purpose of the P2T prog is to encourage the transition of SBIR projects into the BN Only firms with active DoD SBIR Phase II contracts are eli to participate in the P2T program. Learn more about the P2T program in the SBIR Phase II Transition section of th website

DoD Listserv

Since October 2002, all DoD SBIR and STTR solicitations in accordance with the Government Paperwork Elimination solicitations and events, then subscribe to their listsery

5th Annual MDA SBIR/STTR Industry Day

The 2009 Missile Defense Agency Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) Industry Day will be held in Long Beach, CA on August 11-12 2009 Industry Day will focus on enhancing the SRIR and STTR process for MDA and the Small Business

Small Businesses will have the opportunity to sign up for one-on-one sessions with key MDA technical representatives and prime DoD contractors. This will be a great opportunity during the DoD pre-solicitation period (July 27, 2009). For reasons of competitive fairness, direct communication between potential bidders and topic authors will not be allowed after August 24th - the last day of the SBIR and STTR pre-solicitation period. Additional details on Industry Day and registration information will be available in the coming months.



DEPARTMENT OF DEFENSE Resource Center

Small Business Innovation Research



STTR Awards

Current

SITIS

DoD SBIR &

STTR Topics

Interactive

Topic Info

- CONFERENCES DESK REFERENCE TOPICS
 - MAJOR ACQUISITION LIAISONS
 - SUCCESS STORIES FIRMS IN THE NEWS
 - SBIR ANNUAL REPORT
 - STTR ANNUAL REPORT FAST TRACK/PHASE II ENHANCEMENT
 - COMMERCIALIZATION PILOT PROGRAM

HELPDESK Answers Questions About DoD SBIR & STTR

WEBSITE Main Website for More Information

LISTSERV Subscribe to

Receive Program Notices and Updates



A library of SBIR

SSILE DEFENSE AGENCY HOSTS MATH IALLENGE WEEK (pdf)

st of the high-acceleration vehicle

A will provide speakers along with engineers and entists who have volunteered to educate students math, science and engineering as it directly ates to the Agency's mission.



SSILE DEFENSE AGENCY PRESENTS RONALD W AGAN AWARD TO GENERAL LARRY D.

neral Welch received the award for his mmitment and dedication associated with fending the U.S. against ballistic missile attack.



AVY COMPLETES AIR AND BALLISTIC MISSILE



DoD SBIR/STTR Proposal Submission



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