

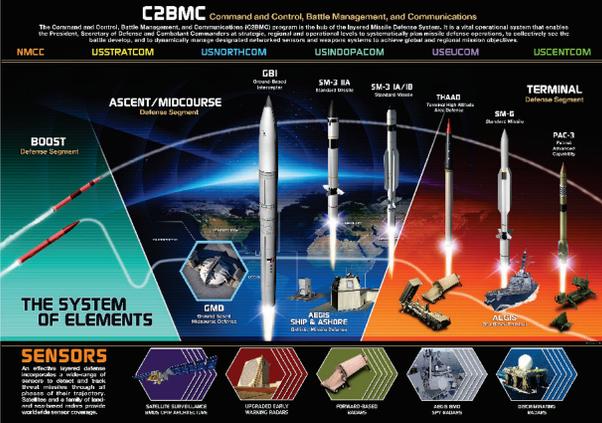
# ABOUT MDA

## MISSILE DEFENSE AGENCY

The Missile Defense Agency (MDA) is a research, development, and acquisition agency within the Department of Defense.

Missile defense technology being developed, tested and deployed by the United States in order to counter ballistic missiles of all ranges—short, medium, intermediate, and long. Since ballistic missiles have different ranges, speeds, size, and performance characteristics, the Ballistic Missile Defense System is an integrated, “layered” architecture that provides multiple opportunities to destroy missiles and their warheads before they can reach their targets. The system’s architecture includes:

- networked sensors space-based, ground-based, and sea-based radars;
- ground- and sea-based interceptor missiles;
- and a command, control, battle management, and communications network.



# MDA MISSION

## WHY WE ARE HERE

Develop, test and field an integrated, layered, ballistic missile defense system (BMDS) to defend the United States, its deployed forces, allies, and friends against all ranges of enemy ballistic missiles in all phases of flight.



## WEBSITES

[www.mda.mil](http://www.mda.mil)

## CONTACT

Advanced Research Program  
 Management Office 256.450.3800  
[Advancedresearch@mda.mil](mailto:Advancedresearch@mda.mil)

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 MDA-17-9203 (22 May 17)*

HSV-G-9957-19



# MDA

## MISSILE DEFENSE AGENCY

### BROAD AGENCY ANNOUNCEMENT OPPORTUNITIES

ADVANCED TECHNOLOGY INNOVATIONS (ATI)

MISSILE DEFENSE SCIENCE & TECHNOLOGY ADVANCED RESEARCH (MSTAR)

[www.mda.mil](http://www.mda.mil)

# MDA BAA OPPORTUNITIES

A Broad Agency Announcement (BAA) is a competitive solicitation procedure for research proposals not related to the development of a specific system or hardware procurement. The MDA utilizes two primary BAAs to obtain proposals for advanced research and advanced technology development in support of Agency needs: the Advanced Technology Innovation (ATI) BAA which is open to industry and universities; and the Missile Defense Science & Technology Advanced Research (MSTAR) BAA which is open to universities only.

The MDA posts both BAA announcements on the Federal Business Opportunities (FBO) website, FedBizOps.gov. BAA topics vary, as do funding and schedule limits. The schedule or window for receiving proposals also varies for each BAA. Check the FedBizOps website for updates on each solicitation since special topics are posted at any time. Industry and universities submit white papers to the MDA in accordance with the instructions in the BAA announcement.

## Advanced Research Areas of Interest

- \* Radar and communications systems that enhance target acquisition and tracking.
- \* Electro-optical and infrared sensor systems.
- \* Directed energy systems to include high energy lasers and power supplies.
- \* Micro- and Nano- satellite systems and constellations.
- \* Advanced materials and structural component survivability in high temperature, shock and vibration, and radiation hardened environments.
- \* Computing schemes and data processing regimes for battle command management and sensor processors.
- \* Propulsion components and attitude control systems.
- \* Modeling and simulation across large sets of scenario parameters fusing multiple systems and platforms.

For a complete list of MDA research topic areas of interest, please see the MDA BAA solicitations on FedBizOps.gov.

## ATI BAA

The MDA's Advanced Technology Innovation (ATI) Broad Agency Announcement (BAA) is open to any university, small or large businesses, or individual. These efforts identify and develop innovative concepts, stimulate technology innovation, and exploit breakthroughs in science to offer robust technology improvement to all elements of the BMDS. The primary objective of the ATI BAA is to encourage participation by science and technology firms and educational institutions in meeting general research and development goals for innovative ideas and approaches for MDA.

## MSTAR BAA

The Missile Defense Science & Technology Advanced Research (MSTAR) BAA is open to all accredited domestic universities and colleges. This program funds relevant advanced technology research and development work at qualified accredited domestic colleges, universities, or institutions of higher learning, and it supports training of future scientists and engineers in the field of missile defense. The MDA funds research and development work at universities in order to:

- Lead to core discoveries and inventions that can further the state-of-the-art and fuel innovations for missile defense.
- Provide students and faculty familiarity and experience with missile defense technology challenges.
- Providing useful training for those who ultimately seek a transition into industry or government careers.

### Source Selection Process for BAAs

- MDA receives the white paper and reviews for responsiveness to the solicitation on FedBizOps.gov.
- Technical evaluators use criteria in the BAA to score the paper on technical merit, capabilities, and management categories.
- The technical evaluation team reviews and makes recommendations for award based on a scientific criteria.
- The BAA Selection Official makes selections based on the evaluation criteria, available funding, and technology priorities.

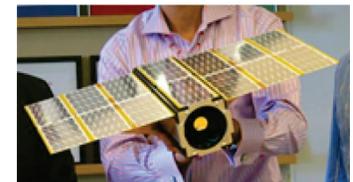
## GENERAL GUIDELINES AND TIPS

*These tips are intended to help proposers write better, more competitive proposals, based on feedback from government evaluators. If guidance appears to conflict with the solicitation, the solicitation governs.*

- White paper authors should prepare their papers according to the instructions outlined in the BAA solicitation on FedBizOps.gov.
- All white papers are evaluated on their own merit, uniqueness, and innovation.
- The BAAs seek advanced research and advanced technology development not tied to the development of a specific system or hardware procurement.
- The MDA may issue Request for Proposal (RFP) up to six months following the closing date for the specific BAA announcement the white paper was submitted under.
- The MDA reserves the right to select for award any, all, part, or none of the white papers received.
- All MDA BAA research contracts include a clause requiring MDA approval for products a researcher may want to publish/present about work funded by MDA.
- The MDA requires clearing all proposed foreign nationals before they work on contracts.
- Federal laws on Foreign Disclosure, Export, Administration Regulations (EAR) and International Traffic in Arms Regulations (ITAR) apply to all research performed.

### Any Questions?

Please contact the MDA Advanced Research Program office, phone 256-450-3800 or email [advancedresearch@mda.mil](mailto:advancedresearch@mda.mil).



Nanosat Technology Demonstrations