



**LONG RANGE BROAD AGENCY ANNOUNCEMENT (BAA)
FOR
THE DEPARTMENT OF HOMELAND SECURITY
SCIENCE AND TECHNOLOGY DIRECTORATE**

INTRODUCTION:

This solicitation is a Broad Agency Announcement (BAA) as contemplated in Federal Acquisition Regulation (FAR) 6.102(d)(2) and 35.016. A formal Request for Proposal (RFP) will not be issued.

The Department of Homeland Security (DHS) Science & Technology (S&T) Directorate will not issue paper copies of this announcement. DHS S&T reserves the right to select for award and fund all, some, or none of the Full Proposals received in response to this solicitation. No funding for direct reimbursement of proposal development costs will be allowed. Technical and cost proposals (or any other material) submitted in response to this BAA will not be returned. However, depending on the markings on the proposal, DHS S&T will adhere to FAR policy on handling source selection information and proprietary proposals. It is the policy of DHS S&T to treat all proposals as sensitive competitive information and to disclose their contents only for the purposes of evaluation.

Multiple awards are anticipated to be issued through this BAA and will be based on an assessment of the overall best value to the government. Awards will be made based upon the proposal evaluation, funds availability, and other programmatic considerations. Awards may take the form of contracts, grants, cooperative agreements, or other transaction (OTs) agreements. Therefore, the applicable laws and regulations governing

the legal vehicle used for award will depend on the legal vehicle chosen by DHS S&T. In the event an Offeror or subcontractor is a Federally Funded Research and Development Center (FFRDC), Department of Energy National Laboratory, or other Federally funded entity, DHS S&T will work with the appropriate sponsoring agency to issue an interagency agreement pursuant to the Economy Act (31 U.S.C. 1531) or other appropriate authority.

I. GENERAL INFORMATION

1. Agency Name -

Department of Homeland Security
Science and Technology Directorate
Washington DC 20528

2. Research Opportunity Title -

DHS S&T Long Range Broad Agency Announcement

3. Research Opportunity Number -

BAA 08-01

4. Response Date -

This announcement will remain open until December 31, 2008. White Papers and/or Full Proposals may be submitted at any time during this period.

5. Research Opportunity Description -

The Homeland Security Act of 2002 (Public Law 107-296) states that DHS S&T will “support basic and applied homeland security research to promote revolutionary changes in technologies; advance the development, testing and evaluation, and deployment of critical homeland security technologies; and accelerate the prototyping and deployment of technologies that would address homeland security vulnerabilities.”

DHS S&T is interested in receiving proposals for Long Range Science and Technology Projects and innovative prototypes which offer potential for advancement and improvement of homeland security missions and operations. Readers should note that this is an announcement to declare S&T’s broad role in competitive funding of meritorious research across a spectrum of science and engineering disciplines. The overall mission and goal of S&T is to identify revolutionary, evolving, and maturing technologies that can be demonstrated to provide significant improvement to homeland security missions and operations through proof of concept and prototyping with potential for transition to current and future DHS acquisition processes. S&T will focus on those key areas where risk inhibits mission and operation investments and where significant

capability payoffs can be expected for successful efforts. Related technologies are being pursued by other elements of the US Government, and in those cases, DHS S&T will leverage and use those technology developments wherever it is practicable and efficient to do so. S&T will also facilitate access to laboratory and operationally relevant test and evaluation facilities wherever reasonably available.

Topical Areas of strategic interest include:

- **Explosives** countermeasures, including the detection, mitigation, and response to explosive threats including manpads, home made explosives, improvised explosive devices, suicide bombers and vehicle borne improvised explosive devices.
- **Chemical and Biological** analyses and countermeasures, including improved characterization and prioritization of threats, development and detection systems for early attack warning that minimize exposure and speed treatment of victims, new forensic methods to support attribution, and novel concepts for decontamination and restoration, agrodefense, and food security.
- **Border and Maritime Security** technologies and tools that better secure our land and maritime ports of entry. Concepts and prototypes for pilot testing surveillance and monitoring capabilities that cover vast expanses of remote border and the development and evaluation of security devices and new inspection methods to secure the large volume of cargo entering U.S. ports daily.
- **Command, Control, & Interoperability** for emergency responders, security and integrity of networked infrastructures, and the development of automated capabilities that “connect-the-dots” for threat detection.
- **Human Factors** analyses and techniques to improve detection, analysis, and understanding of threats posed by individuals, groups, and radical movements; preparedness, response and recovery of communities impacted by catastrophic events; and overall effectiveness of homeland security technologies through improved usability and application.
- **Infrastructure Protection** analyses and techniques for identifying and mitigating all hazard vulnerabilities of the 17 critical infrastructure and key assets that keep our society and economy functioning.

The following is a list of example areas of interest and descriptions of technologies that are of relevance to DHS. S&T is soliciting individuals or teams to conduct basic research, applied technology development, or the preparation of integrated prototypes for field investigations of the performance of new and innovative solutions. It can not be emphasized too strongly that proposals in these areas must show future promise for

mission and operational relevance and to the greatest extent be demonstrable in a relevant homeland security environment.

- Basic science ideas (e.g. biology, chemistry, physics, materials, and algorithms) which hold promise for transformative performance improvements across prevention, detection, defeat, mitigation, and destruction strategies for all homeland threats.
- Interoperable devices and systems to improve information sharing and collaboration between first responder personnel at the federal, state, and local level.
- Concepts and systems to predict, detect, defeat, and destroy at range: Improvised Explosive Devices (IEDs), Vehicle Borne IEDs (VBIEDs), Home Made Explosives (HMEs), suicide bombers, and other terrorist devices.
- Technologies and processes to mitigate blast effects.
- Novel threat screening technologies, components, and methods that do not impede the flow of commerce.
- Offshore wide area persistent surveillance for cueing incoming threats to enable pre-emptive response.
- Enabling technology for securing the Nation's borders.
- Enhanced concepts and systems to detect, exploit, interrogate, and remediate subterranean border tunnels.
- Advanced information assurance for networked infrastructure protection.
- Concepts to prepare for and mitigate the impact of catastrophic geophysical phenomena.
- Enhancements to the cognitive performance of human operators.
- Methods for identifying societal indicators of radicalization and opportunities for deterrence and mitigation.
- Integrated incident management components and systems to improve public and first responder safety.
- Development, prototyping, and improvement of products and systems that are capable of detecting chemical/biological agents and/or their delivery systems.

- Research and development for next generation or novel technologies or prototypes for the detection and mitigation of the consequences of chemical and biological weapons, agents, and/or toxic industrial chemicals.
- Research and development for next generation or novel technologies that lead to the development of equipment, tactics, techniques, and procedures for mitigating the effects of chemical/biological attacks and incidents.
- Novel technologies to counter threats to food and agriculture production.
- Innovative technologies to increase the operational efficiency and create new capabilities for criminal and terrorist investigations and operations.
- Concepts, methodologies, and/or technologies to anticipate, prepare for and/or mitigate the impact of catastrophic geophysical phenomena.
- Concepts, methodologies, and/or technologies for enhancing security, resilience, and recovery of the 17 critical infrastructure sectors for new and retrofit applications.
- Statistical, numerical, and/or empirical models along with other technologies to improve assessment and predict probabilities and consequences of terrorist and natural threats.
- Concepts, methodologies, and/or technologies to improve protection of or enhance performance of responders as they carry out life-saving tasks.
- Geospatial technologies that enhance protection of critical infrastructure and improve management of incidents at federal, state and local levels.

In addition to the example areas listed above, efforts that propose basic research or advanced research and technology demonstration may be proposed to address technology gaps that are described in the document entitled “High Priority Technology Needs”, DHS S&T, dated May, 2007, as amended. This document may be obtained by accessing <http://www.hsarpabaa.com/> and by following the “*Representative High Priority Technology Needs*” link.

Prior to preparing proposals, potential offerors are strongly encouraged to contact the S&T Point of Contact (POC) whose program best matches the offeror’s field of interest.

DHS S&T reserves the right to select for award and fund all, some, or none of the Full Proposals received in response to this solicitation.

6. Point(s) of Contact – Emails forwarded to the contacts listed below should indicate in the subject line: Long Range BAA.

Science and Technology Points of Contact:

Mr. Rolf Dietrich
Deputy Director, Innovation
S&T-Innovation@dhs.gov

Mr. Dave Masters
Deputy Director, Research
S&T-Research@dhs.gov

David Boyd
Division Head, Command, Control, and Interoperability
S&T-C2I@dhs.gov

Chris Doyle
Acting Division Head, Infrastructure and Geophysical
S&T-InfrastructureGeophysical@dhs.gov

David Newton
Acting Division Head, Borders and Maritime
S&T-BordersMaritime@dhs.gov

Sharla Rausch
Division Head, Human Factors
S&T-HumanFactors@dhs.gov

Jim Tuttle
Division Head, Explosives
S&T-Explosives@dhs.gov

John Vitko
Division Head, Chemical/Biological
S&T-ChemBio@dhs.gov

Each can be reached at the following address:
Department of Homeland Security
Science and Technology Directorate
Mail Stop 3150
Washington, DC 20528

Business Point of Contact:

Linda Mulligan
Team Lead/Contracting Officer
Department of Homeland Security
Office of Procurement Operations
Science and Technology Acquisition Division
Washington, DC 20528

202-254-6677

Linda.Mulligan@dhs.gov

7. Catalog of Federal Domestic Assistance (CFDA) Number – 97.065

**8. Catalog of Federal Domestic Assistance (CFDA) Title – Homeland Security
Advanced Research Projects Agency**

9. Other Information -

This announcement is restricted to work relating to basic and applied research and that portion of advanced technology development not related to a specific system or hardware procurement. Contracts, grants, cooperative agreements, and other transaction agreement awards made under this BAA are for scientific study and experimentation directed towards advancing the state-of-the art or increasing knowledge or understanding.

THIS ANNOUNCEMENT DOES NOT COVER TECHNICAL, ENGINEERING AND OTHER TYPES OF SUPPORT SERVICES.

II. AWARD INFORMATION

The amount and period of performance of each selected Full Proposal will vary depending on the research area and the technical approach to be pursued by the selected Offeror.

If Offerors are extending work performed under other projects, it must clearly identify the point of departure and what existing work will be brought forward and what new effort will be performed under this BAA.

DHS S&T reserves the right to select for award and fund all, some, or none of the Full Proposals received in response to this solicitation.

III. ELIGIBILITY INFORMATION

This BAA is open to **ALL** responsible sources. Foreign or foreign-owned Offerors are advised that their participation is subject to foreign disclosure review procedures.

Offerors may include single entities or teams from private sector organizations, Government laboratories, airport authorities, Federally Funded Research and Development Centers (FFRDCs), and academic institutions.

Federally Funded Research & Development Centers (FFRDCs), including the Department of Energy National Laboratories and Centers, are eligible to respond to this BAA, individually or as a team member of an eligible principal Offeror, as so long as

they are permitted to respond to solicitations such as this under the applicable sponsoring agreement between the Government and the specific FFRDC.

Historically Black Colleges and Universities (HBCU), Minority Institutions (MI), Small Business concerns, Small Disadvantaged Business concerns, Women-Owned Small Business concerns, Veteran-Owned Small Business concerns, Service-Disabled Veteran-Owned Small Business concerns, and HUBZone Small Business concerns are encouraged to submit proposals and to join other entities as team members in submitting proposals. However, no portion of this BAA will be set-aside pursuant to FAR Part 19.502-2.

Independent organizations and teams are encouraged to submit proposals. However, Offerors must be willing to cooperate and exchange software, data and other information in an integrated program with other contractors, as well as with system integrators, selected by DHS S&T.

Organizational Conflict of Interest issues will be evaluated on a case-by-case basis as outlined below. Offerors who have existing contract(s) to provide scientific, engineering, technical and/or administrative support directly to DHS S&T will receive particular scrutiny.

Organizational Conflict of Interest:

(a) Disclosure. The Offeror must represent, as part of its proposal and to the best of its knowledge that: (1) It is not aware of any facts which create any actual or potential organizational conflicts of interest relating to the award of this contract; or (2) It has included information in its proposal, providing all current information bearing on the existence of any actual or potential organizational conflicts of interest, and has included the mitigation plan in accordance with paragraph (d) of this provision.

(b) Determination. The Contracting Officer may determine that this effort may result in an actual or potential conflict of interest, or may provide one or more Offerors with the potential to attain an unfair competitive advantage based on the information provided or based on knowledge of the Contracting Officer.

(c) If any such conflict of interest is found to exist, the Contracting Officer may (1) disqualify the Offeror, or (2) determine that it is otherwise in the best interest of the United States to contract with the Offeror and include the appropriate provisions to mitigate or avoid such conflict in the contract awarded. After discussion with the Offeror, the Contracting Officer may determine that the actual conflict cannot be avoided, neutralized, mitigated, or otherwise resolved to the satisfaction of the Government, and the Offeror may be found ineligible for award.

(d) Mitigation/Waiver. If an Offeror with a potential or actual conflict of interest or unfair competitive advantage believes it can be mitigated, neutralized, or avoided, the Offeror may submit a mitigation plan to the Contracting Officer for review. Award of a

contract where an actual or potential conflict of interest exists shall not occur before Government approval of the mitigation plan.

(e) Other Relevant Information. In addition to the mitigation plan, the Contracting Officer may require further relevant information from the Offeror. The Contracting Officer will use all information submitted by the Offeror, and any other relevant information known to DHS, to determine whether an award to the Offeror may take place, and whether the mitigation plan adequately neutralizes or mitigates the conflict.

(f) Corporation Change. The successful Offeror shall inform the Contracting Officer within thirty (30) calendar days of the effective date of any corporate mergers, acquisitions, and/or divestures that may affect this provision.

(g) Flow-down. The contractor shall insert the substance of this clause in each first tier subcontract that exceeds the simplified acquisition threshold.

IV. APPLICATION AND SUBMISSION INFORMATION

1. Application and Submission Process -

Oral Presentations – Prospective Offerors are NOT provided the opportunity to make oral presentations.

Submitting a response to this BAA:

White Paper and Full Proposal submissions will not be accepted from organizations that have not registered. Any organization that wishes to participate in this solicitation must register at <http://www.hsarpabaa.com> before the due date and time established in this BAA, there will be no exceptions. It is very important to follow the registration instructions. Offerors who have not registered by the mandatory white paper website registration deadline will not be permitted to submit a white paper and thus will not be able to submit a proposal later. Offerors must coordinate with all members of their team to ensure the registration process is done correctly and in a timely manner.

To begin the registration process, go to <http://www.hsarpabaa.com> and select BAA 08-01 from the list on the left side of the screen then select the appropriate topic area. Upon proper selection, buttons for registration and submission will appear. Select the appropriate registration button and fill in the requisite fields then submit your registration for White Paper (or Full Proposal) submission. Once the registration process is complete, registrants should receive a control identification number via email. This control number is needed to begin the White Paper submission process. To submit your White Paper select the appropriate submission button, fill out the requisite fields, upload your files and then submit. Users will receive confirmation of their submission via email. You may revise your White Paper submission until the deadline. There is no limit to the number of White Paper submissions per Offeror; however, if a White Paper or Full Proposal is not accepted, do not resubmit another White Paper or Full Proposal under this BAA.

In teaming situations, the lead organization must remain the same on both the White Paper and, if selected, the Full Proposal. Any Full Proposal submitted by entities who were not the prime for the White Paper submission will be considered non-responsive.

Full Proposals will be delivered via upload in accordance with instructions provided during registration. As with the White Papers, only unclassified volumes are to be submitted via the website. For classified submissions, see Section IV, Paragraph 5 below for handling instructions; additionally, Offerors should submit to the website a placeholder portable document format (PDF) file consisting of a single page with the words "Classified Volume Forthcoming" in the center of the page.

The Proposal submissions will be protected from unauthorized disclosure in accordance with FAR 15.207, applicable law, and DHS regulations. Offerors are expected to appropriately mark each page of their submission that contains proprietary information.

White Papers - DHS S&T's initial evaluation of Offerors' White Papers should give Offerors an indication of whether a Full Proposal may result in an award. Initial DHS S&T evaluations of the White Papers will likely be issued via E-mail notification. Detailed technical and cost proposals will be subsequently encouraged from those Offerors whose proposed technologies have been identified through the aforementioned notification as being of "particular value" to DHS S&T. However, any such encouragement does not assure a subsequent award. Any Offeror may submit a Full Proposal even if its White Paper was not identified as being of "particular value." Due to the large number of White Papers typically submitted, DHS S&T may not offer debriefings to Offerors. White Papers are strongly encouraged, but not required, prior to submitting a Full Proposal. **White Papers or Full Proposals WILL NOT BE ACCEPTED after 12/31/2008. The due date for receipt of White Papers or Full Proposals is 4:30 PM (Eastern Standard Time) on 12/31/2008.**

2. Content and Format of White Papers/Full Proposals -

The Proposals submitted under this BAA are expected to be unclassified. However, classified proposals are permitted. All proposal submissions will be protected from unauthorized disclosure in accordance with FAR 15.207, applicable law, and DHS regulations. Offerors are expected to appropriately mark each page of their submission that contains proprietary information.

White Paper Format

- Paper Size – 8.5 x 11 inch paper. 11 x 17 pages may be used but shall count as two pages.
- Margins – 1 inch
- Spacing – single or double-spaced
- Font – Times New Roman, 12 point

- Number of Pages – White Papers shall not exceed ten (10) single-sided pages (excluding cover page, resumes, cost, schedule, and socio-economic commitment). Do not include a cover sheet, as one will be automatically generated for submitted white papers using the information provided during registration. If a cover sheet is submitted with the white paper, it will be counted toward the total 10 page white paper limit. White papers exceeding the page limit will not be evaluated.
- Files are not to exceed 10 megabytes in size. A proposal shall consist of ONE electronic file in portable document format (PDF), readable by IBM-compatible personal computers (PCs).
- Classified volumes must follow the same submission process as provided below in Section IV, Paragraph 5; additionally, Offerors should submit to the website a placeholder pdf file consisting of a single page with the words “Classified Volume Forthcoming” in the center of the page.

Full Proposal Format – Volume 1 - Technical and Volume 2 - Cost Proposal

- Paper Size – 8.5 x 11 inch paper
- Margins – 1 inch
- Spacing – single or double-spaced
- Font – Times New Roman, 12 point
- Number of Pages – Volume 1 is limited to no more than 40 single-sided pages. Volume 2 has no page limitations. Limitations within sections of the Technical Proposal are indicated in the individual descriptions shown below. The cover page, table of contents, and resumes are excluded from the page limitations. *See description of a cover page and cover sheet below.*
- Full Proposals exceeding the page limit may not be evaluated.
- Files are not to exceed 10 megabytes in size. A proposal shall consist of ONE electronic file in portable document format (PDF), readable by IBM-compatible personal computers (PCs) and excel spreadsheet (include all calculations).
- Classified volumes must follow the same submission process as provided below in Section IV, Paragraph 5; additionally, Offerors should submit to the website a placeholder pdf file consisting of a single page with the words “Classified Volume Forthcoming” in the center of the page.

White Paper Content

- Cover Page – The Cover Page shall be labeled “WHITE PAPER”, and shall include the BAA number 08-01, proposed title, topical area (as described in Section I, Paragraph 5), Offeror’s name and address, Offeror’s administrative and technical points of contact, with telephone numbers, facsimile numbers, and E-mail addresses, and shall be signed by an authorized officer. The Cover page should also include the name and organization of the DHS S&T point of contact and organization with whom the white paper was discussed. A list of organizations is provided in Section I, Paragraph 6 of this BAA.

- Cover Sheet – The Cover Sheet is automatically generated during the submission of the White Paper to the BAA website. *This is not the same as the Offeror's Cover Page.*
- Executive Summary – An overview of the White Paper.
- Technical Concept – A description of the technical concept, including anticipated risks and approaches to mitigate the risks. Describe the basic scientific or technical concepts that will be used in each component or subsystem comprising your proposed solution to the problem described above. What is unique about your solution and what advantages might it afford compared to alternate approaches other workers in this field have taken? What has been the extent of your or your team's past experience in working with or developing the technologies comprising your system? What particular scientific, technical and/or engineering issues need to be addressed and resolved to demonstrate feasibility?
- Operational Concept - A description of the operational concept used in the proposed technical solution to accomplish the objectives. Explain how the performance of your proposed solution can be expected to meet or exceed and be measured against each of the specific technical attributes and/or performance enhancements. What are the key scientific, technical, or engineering challenges and the timing for each that must be met in order to successfully complete this project? Describe all required material and information, which must be provided by the Government to support the proposed work.
- Operational Utility Assessment Plan – A plan for demonstrating and evaluating the operational effectiveness of the Offeror's products in exercises, including evaluation metrics. Briefly explain your concept of how you will develop and demonstrate a system or system component. Point out the critical path technologies or key technical challenges you will face when building this system or component and your plans for meeting these challenges. Explain how you will demonstrate the system or component performance relative to the performance or enhancement goals described in the proposal.
- Deliverables – A list of any deliverables (including data deliverables and asserted limited rights or restricted rights in such data deliverables) for the effort; with due date(s) (the number of calendar days after the effective date of award).
- Management Plan – Briefly describe the Offeror's qualifications and experience in similar development efforts. Present the qualifications of the principal technical team leaders, including short resumes. What has been the extent of your team's past experience in working with or developing the technologies comprising your system? Describe any partnering arrangements.
- Costs – A one-page summary of anticipated costs segregated by tasks.
- Schedule – A one or two page schedule of activities culminating in an operational prototype. Activities the Offeror anticipates to be conducted by the government will be clearly so annotated.
- Small Business Considerations – If the prime Offeror is a large business, a commitment of the Offeror to the use of small business concerns. All Offerors should indicate their business size status and list all subcontractors and its business size status.

Full Proposal Content

Volume 1: Technical Proposal

Volume 1 of the Full Proposal shall include the following sections.

- **Cover Sheet**
- **Cover Page:** This should include the words “Technical Proposal” and the following:
 - 1) BAA number 08-01;
 - 2) Title of Proposal
 - 3) Topical Area (as described in Section I, Paragraph 5);
 - 4) Identity of prime Offeror’s name and address and complete list of subcontractors name and address, if applicable;
 - 5) Technical contact (name, address, phone/fax, electronic mail address);
 - 6) Administrative/business contact (name, address, phone/fax, electronic mail address); and,
 - 7) Duration of effort (separately identify the basic effort and any options)
 - 8) DHS S&T Point of Contact (name of the S&T individual that was contacted prior to submission). A list of organizations is provided in Section I, Paragraph 6 of this BAA.
- **Official Transmittal Letter:** This is an official transmittal letter with authorizing official signature. For an electronic submission, the letter can be scanned into the electronic proposal. The letter of transmittal shall state whether this proposal has been submitted to another government agency, other than DHS S&T, and if so, which one and when.
- **Table of Contents.**
- **Executive Summary:** Summarize the proposal and the expected benefits of the solution.
- **Proposed Use for DHS S&T:** A detailed summary of how the proposal’s product(s) supports the targeted end user (e.g., the first responder community) in an operational context. Include quantitative specifications for how the products will improve operational performance.
- **Statement of Work:** A Statement of Work (SOW) and a Work Breakdown Structure (WBS) clearly detailing the scope and objectives of the effort, the technical approach, and the performance goals. It is anticipated that the proposed SOW and WBS will be incorporated as an attachment to the resultant award instrument. To this end, such proposals must include a severable self-standing SOW and WBS without any proprietary restrictions, which can be attached to the contract or agreement award. The WBS must include a detailed listing of the technical tasks/subtasks in hierarchical fashion

for the tasks required to accomplish the effort. The WBS format must be complete to at least WBS level 3. Each task in the SOW shall describe the work to be carried out, the end result of the task, the time allocated, the organization performing the task, the predecessor tasks, the performance goals of the task, and the resources (labor, materials, and services) required. The resources shall be costed to provide a baseline budgeted cost for the applicable task. The SOW shall be at a level sufficient to define the nature of the work to be carried out, measure progress, and understand the relationship of the tasks to one another.

- **Project Schedule and Milestones:** A summary of the schedule of events and milestones.
- **Assertion of Data Rights:** Include here a summary of any assertions to any technical data or computer software that will be developed or delivered under any resultant award. This includes any assertions to pre-existing results, prototypes, or systems supporting and/or necessary for the use of the research, results, and/or prototype. Any rights asserted in other parts of the proposal that would impact the rights in this section must be cross-referenced. If less than unlimited rights in any data delivered under the resultant award are asserted, the Offeror must explain how these rights in the data will affect its ability to deliver research data, subsystems, and toolkits for integration as set forth below. Additionally, the Offeror must explain how the program goals are achievable in light of these proprietary and/or restrictive limitations. If there are no claims of proprietary rights in pre-existing data, this section shall consist of a statement to that effect.

Proposals submitted in response to this solicitation shall identify all technical data or computer software that the Offeror asserts will be furnished to the Government with restrictions on access, use, modification, reproduction, release, performance, display, or disclosure. Offeror's pre-award identification shall be submitted as an attachment to its offer and shall contain the following information:

(1) Statement of Assertion. Include the following statement: "The Offeror asserts for itself, or the persons identified below, that the Government's rights to access, use, modify, reproduce, release, perform, display, or disclose only the following technical data or computer software should be restricted:"

(2) Identification of the technical data or computer software to be furnished with restrictions. For technical data (other than computer software documentation) pertaining to items, components, or processes developed at private expense, identify both the deliverable technical data and each such item, component, or process as specifically as possible (e.g., by referencing specific sections of the proposal or specific technology or

components). For computer software or computer software documentation, identify the software or documentation by specific name or module or item number.

(3) Detailed description of the asserted restrictions. For each of the technical data or computer software identified above in paragraph (2), identify the following information:

(i) Asserted rights. Identify the asserted rights for the technical data or computer software.

(ii) Copies of negotiated, commercial, and other non-standard licenses. Offeror shall attach to its offer for each listed item copies of all proposed negotiated license(s), Offeror's standard commercial license(s), and any other asserted restrictions other than government purpose rights; limited rights; restricted rights; rights under prior government contracts, including SBIR data rights for which the protection period has not expired; or government's minimum rights.

(iii) Specific basis for assertion. Identify the specific basis for the assertion. For example:

(A) Development at private expense, either exclusively or partially. For technical data, development refers to development of the item, component, or process to which the data pertains. For computer software, development refers to the development of the software. Indicate whether development was accomplished exclusively or partially at private expense.

(B) Rights under a prior government contract, including SBIR data rights for which the protection period has not expired.

(C) Standard commercial license customarily provided to the public.

(D) Negotiated license rights.

(iv) Entity asserting restrictions. Identify the corporation, partnership, individual, or other person, as appropriate, asserting the restrictions.

Previously delivered technical data or computer software. The Offeror shall identify the technical data or computer software that are identical or substantially similar to technical data or computer software that the Offeror has produced for, delivered to, or is obligated to deliver to the Government under any contract or subcontract. The Offeror need not identify commercial technical data or computer software delivered subject to a standard commercial license.

Estimated Cost of Development. The estimated cost of development for that technical data or computer software to be delivered with less than Unlimited Rights.

Supplemental information. When requested by the Contracting Officer, the Offeror shall provide sufficient information to enable the Contracting Officer to evaluate the Offeror's assertions. Sufficient information should include, but is not limited to, the following:

(1) The contract number under which the data or software were produced;

(2) The contract number under which, and the name and address of the organization to whom, the data or software were most recently delivered or will be delivered; and

(3) Identification of the expiration date for any limitations on the Government's rights to access, use, modify, reproduce, release, perform, display, or disclose the data or software, when applicable.

Ineligibility for award. An Offeror's failure to submit or complete the identifications and assertions required by this provision with its offer may render the offer ineligible for award.

This section shall be severable, i.e., it will begin on a new page and the following section shall begin on a new page. It is anticipated that the proposed Assertion of Data Rights will be incorporated as an attachment to the resultant award instrument. To this end, proposals must include a severable self-standing Assertion of Data Rights without any proprietary restrictions, which can be attached to the contract or agreement award.

- **Deliverables:** A detailed list and description of all deliverables and data deliverables the Offeror proposes to provide to the government, the schedule for delivery, and acceptance criteria.

This section shall be severable, i.e., it will begin on a new page and the following section shall begin on a new page. It is anticipated that the proposed detailed list and description of all deliverables will be incorporated as an attachment to the resultant award instrument. To this end, proposals must include a severable self-standing detailed list and description of all deliverables without any proprietary restrictions, which can be attached to the contract or agreement award.

- **Operational Utility:** A detailed plan for assessing the operational utility of the key products of this effort during an operational exercise, including proposed metrics.

- **Qualifications:** A discussion of the Offeror’s previous accomplishments and work in this area, or closely related area, and the qualifications of the investigators. Key personnel resumes shall be attached to the proposal and will not count toward the page limitations.
- **Management Approach:** A discussion of the overall approach to the management of the effort, including brief discussions of the total organization, use of personnel, project/function/subcontractor relationships, government research interfaces, and planning, scheduling and control practice. Identify which personnel and subcontractors (if any) will be involved. Include a description of the facilities that are required for the proposed effort with a description of any Government Furnished Equipment/Hardware/Software/Information required, by version and/or configuration.
- **Small Business Considerations:** If the prime Offeror is a large business, a commitment of the Offeror to the use of small business concerns. All Offerors should indicate their business size status and list all subcontractors and its business size status.

VOLUME 2: Cost Proposal

The Cost Proposal shall consist of a cover page and two parts, Part 1 and Part 2. Part 1 will provide a detailed cost breakdown of all costs by cost category by calendar/fiscal year and Part 2 will provide a detailed cost breakdown by task/sub-task using the same task numbers in the Statement of Work. Options must be separately priced. The cost of preparing White Papers and/or Full Proposals in response to this solicitation is not considered an allowable direct charge to any resulting contract or any other award, but may be an allowable expense to the normal bid and proposal indirect cost specified in FAR 31.205-18.

Cover Page: The use of the SF 1411 is optional. The words “Cost Proposal” should appear on the cover page in addition to the following information:

- BAA number;
- Title of proposal;
- Topical Area;
- Identity of prime Offeror’s name and address and complete list of subcontractors name and address, if applicable;
- Technical contact (name, address, phone/fax, electronic mail address)
- Administrative/business contact (name, address, phone/fax, electronic mail address);
- Duration of effort (separately price out the basic effort and any options) and;
- DUNS number and CAGE code.

Part 1: Detailed breakdown of all costs by cost category by calendar/fiscal year and include a summary explaining how each element is applied in the cost proposal:

- Direct Labor – Individual labor category or person, with associated labor hours and *unburdened* direct labor rates;
- Indirect Costs – Fringe Benefits, Overhead, G&A, COM, etc. (*Must show base amount and rate*);
- Travel – Separate by destinations and include number of trips, durations- number of days, number of travelers, per diem (hotel and meals in accordance with the Federal Travel Regulations), airfare, car rental, if additional miscellaneous expense is included, list description and estimated amount, etc.;
- Subcontract – A cost proposal *as detailed as the Offeror’s cost proposal* will be required to be submitted by the subcontractor. The subcontractor’s cost proposal can be provided in a sealed envelope with the Offeror’s cost proposal or will be requested from the subcontractor at a later date. The subcontractor’s cost proposal should include on company letterhead the complete company name and mailing address, technical and administrative/business point of contacts, email address, and telephone number. Include the DUNS number.
- Consultant – Provide consultant agreement or other document which verifies the proposed loaded daily/hourly rate and labor category;
- Materials should be specifically itemized with costs or estimated costs. Where possible, indicate purchasing method (e.g., competition, engineering estimate, market survey, etc.). Include supporting documentation, i.e. vendor quotes, catalog price lists, and past invoices for similar purchases;
- Other Directs Costs, particularly any proposed items of equipment or facilities. Equipment and facilities generally must be furnished by the Offeror. Justifications must be provided when Government funding for such items is sought.
- Fee/Profit including fee percentage.

Part 2 : Cost breakdown by task/sub-task using the same task numbers in the Statement of Work.

3. Significant Dates and Times -

This announcement will remain open until **December 31, 2008**. White Papers and Full Proposals may be submitted in accordance with Section IV, Paragraph 1. Evaluations and awards will occur on “rolling selection” basis. Generally evaluations will occur within 60 days from receipt the White Paper or Full Proposal and contract award will occur approximately 60 days from awardee notification and/or subject to availability of funds.

4. Submission of Late White Papers and Full Proposals –

White Papers and Full Proposals WILL NOT BE ACCEPTED after the published due dates.

5. Address for Submission of Classified White Papers and Full Proposals –

CLASSIFIED SUBMITTALS CANNOT BE TRANSMITTED VIA THE WEB SITE. Regardless, the submitter must first register online following the registration instructions provided in Section IV, Paragraph 1 to obtain a registration number. Submitters must print out the registration form and attach it as a coversheet to the classified submittal located after the classification coversheet. The classified submittal must be submitted via proper classified courier or proper classified mailing procedures as described in the National Industrial Security Program Operating Manual (NISPOM). Offerors may view the NISPOM document online at <http://www.dss.mil/isec/nispom.htm>. Classified submittals must include ten printed copies and one electronic copy on compact disc recordable (CD-R) media (do not use re-writable media (CD-RW/RW-/RW+)). Each copy must be accompanied by the coversheet, which does not count towards the page limitations described in Section IV, Paragraph 1.

Classified documents MUST be received by the applicable due date and time.

Classified proposals can be delivered by courier to:

Director of Security
Department of Homeland Security
Science and Technology Directorate
1120 Vermont Avenue NW
Room 10-112
Washington, DC 20005

Electronic copies can be emailed to:
Christopher.featherston@dhs.gov

NOTE: Please send an unclassified alert email to Christopher.featherston@dhs.gov before emailing classified.

Classification does not eliminate the requirement for offerors to comply with all instructions and deadlines in this BAA.

6. Further Assistance Needed for this BAA

The applicable electronic address for all correspondence for this BAA is: BAA08-01@dhs.gov.

7. Proprietary Protection

Proposals will be considered source selection information and will be protected accordingly, if appropriately marked. Proposals will be reviewed only by authorized

Government representatives and assigned evaluators, which may include support contractors.

V. EVALUATION INFORMATION

1. White Papers and Full Proposals will be evaluated in accordance with the following criterion.

The evaluation of White Papers and Full Proposals will be accomplished through an independent technical review of each; using the following criteria which is listed in descending order of importance. The sub-criteria listed under a particular criterion are of equal importance to each other.

- A. Overall scientific and technical merits of the proposal
 - 1. The degree of innovation and potential to offer a revolutionary increase in capability or a significant reduction in cost commensurate with the potential risks of the innovative approach;
 - 2. The soundness of the technical concept;
 - 3. The Offeror's awareness of the state-of-the-art and future technology trends;
 - 4. The Offeror's understanding of the scope of the problem and the technical effort needed to address it; and
 - 5. Intellectual property rights offered.
- B. The Offeror's capabilities, related experience, and past performance, including the qualifications, capabilities, and experience of the proposed principal investigator and personnel
 - 1. The quality of technical personnel proposed;
 - 2. The Offeror's experience in relevant efforts with similar resources; and
 - 3. The ability to manage the proposed effort.
- C. Cost, including cost realism and reasonableness analyses. Each price/cost response will be reviewed for price/cost realism, reasonableness, and overall best value to the government. Members of the evaluation team may presume that the technical approach provided by the Offeror serves as a rationale for the labor mix and labor hours used.
- D. For proposed awards to be made as contracts to large businesses, the small business consideration section of each proposal will be evaluated based on the extent of Offeror's commitment in providing meaningful subcontracting opportunities for small businesses, small disadvantaged businesses, woman-owned small businesses, HUBZone small businesses, veteran-owned small businesses, service disabled veteran-owned small businesses, historically black colleges and universities, and minority institutions. All Offerors should indicate their business size status (listed above) and list all subcontractors and its business size status.

The final evaluation will be based on an assessment of the overall best value to the government based on these criteria. Awards will be made based on proposal evaluation,

funds availability, and other programmatic considerations, including awards to lesser rated proposals where competing or alternate technologies are deemed to reduce technical risk or are otherwise more technically advantageous.

2. Industry-Academia Partnering – DHS S&T highly encourages partnering among industry and academia with a view toward speeding the incorporation of new science and technology into fielded systems. Proposals that utilize industry-academic partnering that enhances the development of novel S&T advances will be given favorable consideration.

3. Industry-Government Partnering – DHS S&T highly encourages partnering among industry and Government, with a view toward speeding the incorporation of new science and technology into fielded systems. Proposals that utilize industry-Government partnering which enhances the development of novel DHS S&T advances will be given favorable consideration.

4. Evaluation Panel -

The evaluation of White Papers and Full Proposals will be performed by an Evaluation Team of government technical experts drawn from DHS and other Federal Government agencies. Only Federal Government employees will be evaluating the White Papers and Full Proposals for selection. However, the Government intends to use contractor personnel to provide technical assistance to Federal employees involved in the evaluation of White Papers and Full Proposals. Additionally, S&T has contracted for various business and staff support services, some of which require contractors to obtain administrative access to White Papers, Full Proposals, and Offerors' presentations (all of which may include proprietary information). Contractors involved in providing technical assistance and administrative assistance to S&T have signed general non-disclosure agreements and organizational conflict of interest statements. Any objection to contractor access for purposes of technical assistance or administrative assistance must be in writing to the Contracting Officer and shall include a detailed statement of the basis for the objection.

VI. AWARD ADMINISTRATION INFORMATION

1. Administrative Requirements –

- The North American Industry Classification System (NAICS) code – The North American Industry Classification System (NAICS) code for this announcement is 541712 with a small business size standard of 500 employees.
- CCR - Successful Offerors not already registered in the Central Contractor Registry (CCR) will be required to register in CCR prior to award of any grant, contract, cooperative agreement, or other transaction agreement. Information regarding CCR registration is available at <http://www.ccr.gov/>.

- Certifications – In accordance with FAR 4.1201, prospective Offerors for contracts, and other transaction agreements involving prototypes (Section 845), shall complete the Online Representations and Certifications Application (ORCA) at <http://orca.bpn.gov>. Offerors should make mention of its ORCA completion in its proposal, and provide its “Certification Validity” period. Successful Offerors will be provided additional information with regards to certification for grants, cooperative agreements, or other transaction agreements (other than for prototypes) proposals.
- Subcontracting Plans - Successful contract proposals that exceed \$550,000, submitted by all but small business concerns, will be required to submit a Small Business Subcontracting Plan in accordance with FAR 52.219-9, prior to award.
- Federal Travel Regulations (FTR) – Information on per diem rates based on travel locations are provided on www.gsa.gov.

2. Reporting -

The following are samples of data deliverables that are typically required under a research effort:

- Technical and Financial Progress Reports
- Presentation Materials (Includes Pictures)
- Other Documents or Reports
- Report of Demonstration
- Monthly Program Report
- Final Technical Report

The following minimum deliverables will be required under traditional procurement contracts or other transactions agreements awarded to those offerors whose Full Proposals are selected for award:

Monthly Program Report

Brief narrative reports will be electronically submitted to the Program Manager within one week after the last day of each month (not more than two pages). These reports will describe the previous calendar month’s activity, technical progress achieved against goals, difficulties encountered, recovery plans (if needed), explicit plans for the next calendar month, and financial expenditures (including expenditures during the past calendar month period plus cumulative expenditures, and projected expenditures for the coming calendar month).

Final Technical Report

For a final report, each selected Offeror will provide a technical report of work performed during the period of performance, delivered no later than the last day of the period of performance. The final report will be a cumulative, stand-alone document that describes

the work of the entire test and evaluation period leading up to it. It shall detail how the design prototype was refined or otherwise prepared for the test and evaluation program and, if applicable, why such refinements or preparations were undertaken. It must include any technical data gathered, such as measurements taken, models developed, simulation results, and formulations developed. The final report will include a summary of all performance goals versus performance achieved during the program (either measured or otherwise substantiated). The final report will discuss all variances from the performance goals versus performance achieved, including reasons or theories for variances. If applicable, provide a discussion of how the Offeror might meet any unmet performance goals under a future effort. This final report should also include “lessons learned” from the effort, recommendations for future research, development, or testing that would lead to success in meeting the performance goals. The final report shall provide a comprehensive and detailed account of all funds expended.

VII. OTHER INFORMATION

1. Government Property, Government Furnished Equipment (GFE) and Facilities

Each Offeror must provide a specific description of any equipment/hardware that it needs to acquire to perform the work. This description should indicate whether or not each particular piece of equipment/hardware will be included as part of a deliverable item under the resulting award. Also, this description should identify the component, nomenclature, and configuration of the equipment/hardware that it proposes to purchase for this effort. It is the Government’s desires to have the contractors purchase the equipment/hardware for deliverable items under an award. The purchase on a direct reimbursement basis of special test equipment or other equipment that is not included in a deliverable item will be evaluated for allowability on a case-by-case basis. Maximum use of Government integration, test, and experiment facilities is encouraged in each of the Offeror’s proposals.

Government research facilities may be available and should be considered as potential government furnished equipment/facilities. These facilities and resources are of high value and some are in constant demand by multiple programs. It is unlikely that all facilities would be used for any one specific project or program. The use of these facilities and resources will be negotiated as the program unfolds. Offerors should explain which of these facilities they recommend and why.

2. Security Classification

In order to facilitate intra-program collaboration and technology transfer, the Government will attempt to enable technology developers to work at the unclassified level to the maximum extent possible. However, classified proposals are also encouraged and integrators and experiments may require classified work.

If developers use unclassified data in their deliveries and demonstrations regarding a potential classified project, they should use methods and conventions consistent with those used in classified environments. Such conventions will permit the various subsystems and the final system to be more adaptable in accommodating classified data in the transition system.

If during the performance of the effort under an award, the Contractor may be required to have access to, and may be required to receive, generate or store information classified to the level of (SECRET or TOP SECRET). For personnel, a minimum of a (SECRET or TOP SECRET) clearance is required. Any Contractor facilities used in support of this contract must be granted (SECRET or TOP SECRET) facility clearances and have the capability to store material classified up to and including (SECRET or TOP SECRET). A DD Form 254 will be required prior to access or production of any classified information. Additionally, the Contractor is required to safeguard the information labeled as proprietary.

Any security concerns should be addressed to:

Christopher Featherston
Director of Security
Science and Technology Directorate
Department of Homeland Security
Christopher.featherston@dhs.gov
202-254-6117 (Office) and 202-254-5783 (Fax)

3. Project Meetings & Reviews

Program status reviews may also be held to provide a forum for reviews of the latest results from experiments and any other incremental progress towards the major demonstrations. These meetings will be held at various sites throughout the country. For costing purposes, Offerors should assume that 40% of these meetings will be at or near DHS S&T offices in Washington, DC and 60% at the Contractor's offices or other government facilities. Interim meetings are likely, but these will be accomplished via video telephone conferences, telephone conferences, or via web-based collaboration tools.

4. Objections

Any objections to the terms of this solicitation or to the conduct of receipt, evaluation, or award of agreements must be presented in writing within 10 calendar days of (1) the release of this solicitation or (2) the date the objector knows or should have known the basis for its objection. Objections should be provided in letter format, clearly stating that it is an objection to this solicitation or to the conduct of the evaluation or award of an agreement and providing a clear, detailed, and factual statement of the basis for objection.

Failure to comply with these directions is a basis for summary dismissal of the objection.
Mail objections to:

U. S. Department of Homeland Security
Office of Procurement Operations
ATTN: Linda Mulligan
Team Lead/Contracting Officer
Science and Technology Acquisitions
245 Murray Lane, SW Bldg. 410
Washington DC 20528

5. Information for White Paper and Full Proposal Respondents

This BAA is for planning purposes only and shall not be construed as an obligation on the part of the Government to acquire any products or services. No entitlement to payment of direct or indirect costs or charges by the government will arise as a result of submission of responses to this BAA and the government's use of such information. Respondents to this BAA may be requested to provide additional information based on their submittals. Unnecessarily elaborate responses containing extensive marketing materials are not desired.

6. SAFETY Act

Congress enacted the Support Anti-terrorism by Fostering Effective Technologies Act of 2002 (the "SAFETY Act") as part of the Homeland Security Act of 2002. The SAFETY Act provides limitations on the potential liability of those firms that develop and provide qualified anti-terrorism technologies. DHS's Science and Technology Directorate, acting through its Office of SAFETY Act Implementation, encourage the development and deployment of anti-terrorism technologies by making available the SAFETY Act's system of "risk management" and "liability management." Offerors submitting proposals in response to this BAA are encouraged to submit SAFETY Act applications on their existing technologies and are invited to contact the Office of SAFETY Act Implementation (OSAI) for more information at 1-866-788-9318 or helpdesk@safetyact.gov or visit OSAI's website at www.safetyact.gov.