



**Broad Agency Announcement**

**Transformational Antenna Technologies**

**Defense Advanced Research Projects Agency (DARPA)  
Strategic Technology Office (STO)**

**BAA 08-11**

**18 December 2007**

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        The potential of the proposed technology / concept to fundamentally change the DoD’s ability to exploit the electromagnetic spectrum will be evaluated. The ability to transition the technology to the research, industrial, and operational military communities will also be evaluated. This evaluation will include the extent to which intellectual property is being delivered with rights limitations, if any, and the extent to which such limitations may create barriers to technical transition. .... 19

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## Part One: Overview Information

- **Federal Agency Name** – Defense Advanced Research Projects Agency (DARPA), Strategic Technology Office (STO)
- **Funding Opportunity Title** – Transformational Antenna Technologies
- **Announcement Type** – Broad Area Announcement – Initial Announcement
- **Funding Opportunity Number** – Broad Agency Announcement (BAA) 08-11
- **Catalog of Federal Domestic Assistance Numbers (CFDA)** – 12.910 Research and Technology Development
- **Dates**
  - Proposal Abstract Due Date: 31 January 2008
  - Proposal Due Date: 14 March 2008
- **Concise description of the funding opportunity** – DARPA / STO is looking to develop transformational antenna technologies to support wideband warfighter communications across the frequency spectrum. Applications of interest include personal communications and ground vehicle and aircraft communications.
- **Anticipated individual awards** – Multiple awards are anticipated.
- **Types of instruments that may be awarded** -- Procurement contract, grant, cooperative agreement or other transaction.
- **Any cost sharing requirements** – Not Required
- **Agency contact**
  - The BAA Coordinator for this effort can be reached at:  
fax: 703-516-8732  
electronic mail: [BAA08-11@darpa.mil](mailto:BAA08-11@darpa.mil)  
DARPA/STO  
ATTN: BAA 08-11  
3701 North Fairfax Drive  
Arlington, VA 22203-1714

## Part Two: Full Text of Announcement

### 1. FUNDING OPPORTUNITY DESCRIPTION

The Defense Advanced Research Projects Agency often selects its research efforts through the Broad Agency Announcement (BAA) process. The Transformational Antenna Technologies BAA 08-11 will appear on the FedBizOpps website, <http://www.fedbizopps.gov/> and Grants.gov website at <http://www.grants.gov/>. The following information is for those wishing to respond to BAA 08-11.

DARPA is soliciting innovative research proposals in the area of transformational antenna technologies. The proposed research should investigate innovative approaches that enable transformational and revolutionary advances in science, devices, or systems. Specifically excluded is research that primarily results in evolutionary improvements to the existing state of practice.

#### 1.1. PROGRAM OVERVIEW

The Transformational Antenna Technologies program will demonstrate and establish the credibility and feasibility of new and innovative antenna design concepts that have the potential to fundamentally change the way that the Department of Defense (DoD) exploits electromagnetics. The scope of this BAA is limited to establishing the credibility and feasibility of the innovative concept proposed and describing the opportunity that exploitation of the concept could provide the DoD. Efforts that successfully demonstrate credibility of the concept may lead to future, longer term efforts that fully investigate and develop the technology necessary to exploit the concept.

The typical proposal should express a comprehensive, consolidated effort in support of one or more related technical concepts or ideas. Disjointed efforts should not be included into a single proposal. Further, typical proposals should describe a short duration effort with a proposed scope that is limited to the effort needed to establish the credibility and feasibility of the transformational concept. Proposals should also describe the longer term, follow-on effort needed to investigate and develop the technology for transition. Follow-on research in this area may be solicited in subsequent announcements.

Examples of research topics that are of interest include, but are not limited to, the following:

- *Steerable Antennas / Low-Cost Phased Arrays* – consider sub-arrays and a hexagonal lattice structure. Objective would be to minimize the cost by reducing the number of element modules or improve processing.
- *Use of Artificial Magnetic Conductors to Reduce Ground Plane Effects for Wideband Antennas* – provide usable bandwidth over an octave or more for ground vehicle, aircraft, and satellite applications.

- *All Digital Arrays* –digital array designs that reduce analog to digital (A/D) bit-bandwidth product. This could include approaches for developing new techniques to accommodate the difference between the inter-element delay and the Nyquist sampling interval.
- *Optimum Electrically Small Antennas* – development of fundamental limits for cylindrical volumes. Improvements in design and performance should be considered.
- *Electrically Small Antenna Matching* –Small matching circuits to allow integration into an amplifier with high DC efficiency.
- *Wideband Wearable Antennas* –Small, low cost radios that are multi-channel, spectrum agile, Multiple Input Multiple Output (MIMO) capable, and operate over broad spectrum (i.e. 0.9-6.0 GHz) are currently in development. Approaches in the areas of bandwidth and aperture size might be considered to leverage the functionality of these radios and allow the warfighter to exploit their capabilities.
- *Platform Feed Systems* – Innovative feed systems that improve performance (multi-function / reduced co-site / improved gain and pattern) and reduce the impact on platform integration. Feed systems that allow a single RF cable to feed multiple antennas and feed systems that can be integrated into the platform structure during the manufacturing process are of interest.
- *Conformal Platform-Enhanced Aperture Design* – Aperture design research to improve performance by incorporating the platform as part of the aperture design.
- *Metamaterial Aperture Design* - Volumetric characterization of antennas with metamaterial apertures and comparison with antennas that use traditional apertures is of interest. In addition, further research into the application of metamaterials in antenna design, to include embedding them in armor, is also of interest.
- *Leaky Wave Antennas* - Research into Leaky Wave antennas that can be mounted conformally to vehicles and scanned electronically for directional networking is of interest. Consider control structure research that enables beamforming in these antennas. The approaches should consider the ability for vehicles to radiate in all directions and at different frequencies (VHF-Q is of interest).
- *Amplifier and Coupling Technologies* – Development of amplifier and coupling technologies that provide an improvement the overall amplifier / antenna subsystem performance is of interest.
- *Wideband, Multi-function Platform (air, ground, and sea) Antenna / RF Distribution Systems*: Development of RF distribution and antenna technologies that reduce aperture count and / or visibility is of interest.

Proposals that describe transformational antenna technologies that could fundamentally change electromagnetic spectrum exploitation but do not directly fit into one of the topics listed above can be submitted under this BAA.

## **1.2. PROGRAM METRICS**

Proposals should cite the quantitative and qualitative success criteria that the proposed effort will achieve at each of the program's metric measurement milestones. Although this is not a BAA requirement, DARPA typically initiates projects that offer 10 times improvement in some basic measure of performance.

## **2. AWARD INFORMATION**

Multiple awards are anticipated; however, it is not expected that there will be an award for each interest area listed above. The amount of resources made available under this BAA will depend on the quality of the proposals received and the availability of funds.

The Government reserves the right to select for negotiation all, some, one, or none of the proposals received in response to this solicitation, and to make awards without discussions with offerors. The Government also reserves the right to conduct discussions if the Source Selection Authority later determines them to be necessary. If warranted, portions of resulting awards may be segregated into pre-priced options. Additionally, DARPA reserves the right to accept proposals in their entirety or to select only portions of proposals for award. In the event that DARPA desires to award only portions of a proposal, negotiations may be opened with that offeror. If the proposed effort is inherently divisible and nothing is gained from the aggregation, offerors should consider submitting it as multiple independent efforts. The Government reserves the right to fund proposals incrementally, with options for continued work at the end of one or more of the increments. It is anticipated that the proposals will propose research on one or more specific area(s) and approaches and be of a base period only. Further research may be solicited via a subsequent announcement.

Awards under this BAA will be made to offerors on the basis of the evaluation criteria listed below (see section labeled "Application Review Information", Sec. 5.), and program balance to provide overall value to the Government. Proposals identified for negotiation may result in a procurement contract, grant, cooperative agreement, or other transaction, depending upon the nature of the work proposed, the required degree of interaction between parties, and other factors. Offerors should note that the required degree of interaction between parties, for any award instrument (except grants), will be high and continuous.

### **3. ELIGIBILITY INFORMATION**

#### **3.1. ELIGIBLE APPLICANTS**

All responsible sources capable of satisfying the Government's needs may submit a proposal that shall be considered by DARPA. Historically Black Colleges and Universities (HBCUs), Small Businesses, Small Disadvantaged Businesses and Minority Institutions (MIs) are encouraged to submit proposals and join others in submitting proposals; however, no portion of this announcement will be set aside for these organizations' participation due to the impracticality of reserving discrete or severable areas of this research for exclusive competition among these entities. Independent proposals from Government/National laboratories may be subject to applicable direct competition limitations, though certain Federally Funded Research and Development Centers are excepted per P.L. 103-337§ 217 and P.L 105-261 § 3136. Proposers from Government / National Laboratories must provide documentation to DARPA to establish that they are eligible to propose and have unique capabilities not otherwise available in private industry.

Foreign participants and/or individuals may participate to the extent that such participants comply with any necessary Non-Disclosure Agreements, Security Regulations, Export Control Laws, and other governing statutes applicable under the circumstances.

##### **3.1.1. Procurement Integrity, Standards of Conduct, Ethical Considerations, and Organizational Conflicts of Interest**

Certain post-employment restrictions on former federal officers and employees may exist, including special Government employees (including but not limited to Title 18, Section 207, United States Code, the Procurement Integrity Act, 41 U.S.C. 423, and FAR 3.104). Current federal employees are prohibited from participating in particular matters involving conflicting financial, employment, and representing interests (18 USC 203, 205, and 208). Prior to the start of proposal evaluations, the Government will assess whether any potential conflict of interest exists in regards to the DARPA Program Manager as well as those individuals chosen to evaluate proposals received under this BAA. The Program Manager is required to review and evaluate all proposals received under this BAA and to manage all selected efforts.

All Proposers and proposed subcontractors must affirm whether they are providing scientific, engineering, and technical assistance (SETA) or similar support to any DARPA office(s) through an active contract or subcontract. All affirmations must state which office(s) the Proposer supports and identify the prime contract numbers. Affirmations shall be furnished at the time of proposal submission. All facts relevant to the existence or potential existence of organizational conflicts of interest (FAR 9.5) must be disclosed. The disclosure shall include a description of the action the Proposer has taken or proposes to take to avoid, neutralize, or mitigate such conflict. In accordance with FAR 9.503 and without prior approval or a waiver from the DARPA Director, Proposer cannot simultaneously be a SETA and Performer. Proposals that fail to fully

disclose potential conflicts of interests and / or do not have plans to mitigate this conflict will be returned without technical evaluation and withdrawn from further consideration for award.

If a prospective Proposer believes that any conflict of interest exists or may exist (whether organizational or otherwise), the Proposer should promptly raise the issue with DARPA by sending Proposer's contact information and a summary of the potential conflict by email to the mailbox address for this BAA at BAA08-11@darpa.mil, before time and effort are expended in preparing a proposal and mitigation plan. If, in the sole opinion of the Government after full consideration of the circumstances, any conflict situation cannot be effectively mitigated, the proposal may be returned without technical evaluation and withdrawn from further consideration for award under this BAA.

### **3.2. COST SHARING / MATCHING**

Cost sharing is not required for this particular program; however, cost sharing will be carefully considered where there is an applicable statutory condition relating to the selected funding instrument (e.g., for any Other Transactions under the authority of 10 U.S.C. § 2371). Cost sharing is encouraged where there is a reasonable probability of a potential commercial application related to the proposed research and development effort.

## **4. APPLICATION AND SUBMISSION INFORMATION**

### **4.1. ADDRESS TO REQUEST APPLICATION PACKAGE**

This solicitation contains all information required to submit a proposal. No additional forms, kits, or other materials are needed. This notice constitutes the total BAA. No additional information is available, nor will a formal Request for Proposal (RFP) or additional solicitation regarding this announcement be issued. Requests for same will be disregarded.

### **4.2. CONTENT AND FORM OF APPLICATION SUBMISSION**

#### **4.2.1. Abstract and Proposal Information**

Proposers who choose to use abstracts are strongly encouraged to submit a proposal abstract in advance of a full proposal. This procedure is intended to minimize unnecessary effort in proposal preparation and review. The time and date for submission of proposal abstracts is specified in Section C below. DARPA will acknowledge receipt of the submission and assign a control number that should be used in all further correspondence regarding the proposal abstract.

DARPA will respond to proposal abstracts with a recommendation to propose or not propose and the time and date for submission of a full proposal. DARPA will attempt to review proposal abstracts within seven (7) calendar days after receipt and will allow proposers at least thirty (30) calendar days after review of their proposal abstracts in

order to complete and submit their proposals. Proposal abstracts will be reviewed as they are received. Early submissions of proposal abstracts and full proposals are encouraged because selections may be made at any time during the evaluation process. Regardless of the recommendation, the decision to propose is the responsibility of the proposer. All submitted proposals will be fully reviewed regardless of the disposition of the proposal abstract. Proposers not submitting proposal abstracts are required to submit full proposals at the time and date specified in the BAA in order to be considered during the initial round of selections; however, proposals received after this deadline may be received and evaluated up to one year from date of posting on FedBizOpps and Grants.gov. Full proposals submitted after the due date stated in the BAA or due date otherwise specified by DARPA after review of proposal abstracts may be selected contingent on the availability of funds.

The typical proposal should express a comprehensive, consolidated effort in support of one or more related technical concepts or ideas. Disjointed efforts should not be included into a single proposal.

Restrictive notices notwithstanding, proposals may be handled, for administrative purposes only, by a support contractor. This support contractor is prohibited from competition in DARPA technical research and is bound by appropriate nondisclosure requirements. Proposals may not be submitted by fax or e-mail; any so sent will be disregarded.

Proposals not meeting the format described in the BAA may not be reviewed.

**For Proposal Abstracts Being Submitted as Hard Copies/On CD-ROM:**

An original and two (2) copies of the proposal abstract and one (1) electronic copies of the abstract, preferably in PDF, on a CD-ROM shall be submitted.

Upon review, DARPA will provide written feedback on the likelihood of a full proposal being selected and the time and date for submission of a full proposal, which may differ from the originally published date below.

**For Proposers Submitting ONLY Full Proposals, Not Abstracts, as Hard Copies/ On CD-ROM:**

Proposers not submitting proposal abstracts must submit an original and four (4) copies of the full proposal and two (2) electronic copies of the full proposal, preferably in PDF, on a CD-ROM by the date listed in Section C below. Each copy must be clearly labeled with BAA 08-11, offeror organization, proposal title (short title recommended), and Copy \_ of 4.

**For Proposers Posting to Grants.Gov:**

Offerors may elect to use the Grants.gov APPLY function if the applicant is seeking a grant or cooperative agreement. The APPLY function replaces the proposal submission process that other offerors follow. The APPLY function does not affect the proposal content or format. The APPLY function is electronic; offerors do not submit paper proposals in addition to the Grants.gov APPLY electronic submission.

**For All:**

All correspondence and questions on this solicitation, including requests for information on how to submit a full proposal to this BAA, should be directed to the administrative addresses below; e-mail is preferred.

e-mail: [BAA08-11@darpa.mil](mailto:BAA08-11@darpa.mil)  
website: <http://www.darpa.mil/sto/solicitations/baa08-11/index.html>  
fax: 703-516-8732

DARPA intends to use electronic mail and fax for correspondence regarding BAA 08-11. Frequently asked questions will be available on the Transformational Antenna Technologies website, <http://www.darpa.mil/sto/solicitations/baa08-11/index.html>. Proposals may not be submitted by fax or e-mail; any sent will be disregarded. DARPA encourages use of the Internet for retrieving the BAA and any other related information that may subsequently be provided.

**4.2.2. Restrictive Markings on Proposals**

All proposals should clearly indicate limitations on the disclosure of their contents. Proposers who include in their proposals data that they do not want disclosed to the public for any purpose, or used by the Government except for evaluation purposes, shall-

(1) Mark the title page with the following legend:

This proposal includes data that shall not be disclosed outside the Government and shall not be duplicated, used, or disclosed-in whole or in part-for any purpose other than to evaluate this proposal. If, however, a contract is awarded to this proposer as a result of, or in connection with, the submission of this data, the Government shall have the right to duplicate, use, or disclose the data to the extent provided in the resulting contract. This restriction does not limit the Government's right to use information contained in this data if it is obtained from another source without restriction. The data subject to this restriction are contained in sheets [insert numbers or other identification of sheets]; and

(2) Mark each sheet of data it wishes to restrict with the following legend:

Use or disclosure of data contained on this sheet is subject to the restriction on the title page of this proposal.

Markings like "Company Confidential" or other phrases that may be confused with national security classifications shall be avoided. See Section 6.0, for additional information.

### **4.3.FORMATting CHARACTERISTICS**

#### **4.3.1. Proposal Abstract Format**

Proposal abstracts are encouraged in advance of full proposals in order to provide potential offerors with a rapid response to minimize unnecessary effort. Proposal abstracts should follow the same general format as described for Volume I under PROPOSAL FORMAT (see below), but include ONLY Sections I and II. The cover sheet should be clearly marked "PROPOSAL ABSTRACT" and the total length should not exceed 7 numbered pages, excluding cover page and official transmittal letter. All pages shall be printed on 8-1/2 by 11 inch paper with type not smaller than 12 point. The page limitation for proposal abstracts includes all figures, tables, and charts. No formal transmittal letter is required. All proposal abstracts must be written in English.

##### 4.3.1.1. {1} Cover sheet to include:

1. BAA number
2. Technical area (see Para 2.2)
3. Lead Organization Submitting proposal
4. Type of business, selected among the following categories: "LARGE BUSINESS," "SMALL DISADVANTAGED BUSINESS," "OTHER SMALL BUSINESS," "HBCU," "MI," "OTHER EDUCATIONAL," or "OTHER NONPROFIT"
5. Contractor's reference number (if any)
6. Other team members (if applicable) and type of business for each
7. Abstract title
8. Technical point of contact to include: salutation, last name, first name, street address, city, state, zip code, telephone, fax (if available), electronic mail (if available)
9. Administrative point of contact to include: salutation, last name, first name, street address, city, state, zip code, telephone, fax (if available), electronic mail (if available)
10. Funds requested from DARPA for each research approach proposed and the total proposed cost; and the amount of cost share (if any)
11. Date abstract was prepared.

##### 4.3.1.2 {1} Executive Summary:

Includes a title and an abstract that provides a concise statement of work and basic approaches to be used. This should be on a separate page and in a form suitable for release under the Freedom of Information Act, 5 U.S.C. 552, as amended.

4.3.1.3 {1} Summary of Innovative Claims for the Proposed Research:

Succinctly describe the uniqueness and benefits of the proposed approach relative to the current state-of-art and alternative approaches.

4.3.1.4 {3} Summary of Technical Approach:

The technical rationale, technical approach, and constructive plan for accomplishments of technical goals in support of innovative claims and deliverable production should be summarized.

4.3.1.5 {1} Summary of Deliverables and Approach to Intellectual Property:

Deliverables associated with the proposed research and the plans and capability to accomplish technology transition and commercialization. Include in this section all proprietary claims to results, prototypes, intellectual property, or systems supporting and/or necessary for the use of the research, results, and/or demonstration. If there are no proprietary claims, this should be stated. This section should list all technical data, computer software, or computer software documentation to be provided with other than unlimited rights in accordance with DFARS Clause 252.227-7017 IDENTIFICATION AND ASSERTION OF USE, RELEASE, OR DISCLOSURE RESTRICTIONS (JUNE 1995). Reference section 3.4.

4.3.1.6 {1} Summary of Cost, Schedule, and Milestones:

Summarize, in table form, cost, schedule, and milestones for the proposed research, including estimates of cost for each deliverable and total cost.

**4.3.2. Proposal Format**

All full proposals must be in the format given below. Nonconforming proposals may be rejected without review. Proposals shall consist of two volumes. All pages shall be printed on 8-1/2 by 11 inch paper with type not smaller than 12 point. The table of contents and list of acronyms and abbreviations may be excluded from the page count in section II and III. Font sizes smaller than 12 pt are allowable in graphics, tables, and captions as long as they are legible. The page limitation for full proposals includes all figures, tables, and charts. Volume I, Technical and Management Proposal, may include an attached bibliography of relevant technical papers or research notes (published and unpublished) which document the technical ideas and approach upon which the proposal is based. Copies of not more than three (3) relevant papers can be included with the submission. The bibliography and attached papers are not included in the page counts given below. The submission of other supporting materials along with the proposals is strongly discouraged and will not be considered for review. Except for the attached bibliography and Section I, Volume I shall not exceed 30 numbered pages. Suggested maximum page lengths for each section are shown in braces { } below. The referenced page count distribution is considered guidance and the proposer is allowed to adjust page distribution within this section. This does not change the maximum page limit for Section II and III of 30 pages. All full proposals must be written in English.

#### 4.3.2.1 Volume I, Technical and Management Proposal

##### Section I. Administrative

###### A. Cover sheet to include:

- (1) BAA number
- (2) Technical area
- (3) Lead Organization Submitting proposal
- (4) Type of business, selected among the following categories: “LARGE BUSINESS”, “SMALL DISADVANTAGED BUSINESS”, “OTHER SMALL BUSINESS”, “HBCU”, “MI”, “OTHER EDUCATIONAL”, OR “OTHER NONPROFIT”
- (5) Contractor’s reference number (if any)
- (6) Other team members (if applicable) and type of business for each
- (7) Proposal title
- (8) Technical point of contact to include: salutation, last name, first name, street address, city, state, zip code, telephone, fax (if available), electronic mail (if available)
- (9) Administrative point of contact to include: salutation, last name, first name, street address, city, state, zip code, telephone, fax (if available), electronic mail (if available), total funds requested from DARPA, and the amount of cost share (if any) and
- (10) Date proposal was submitted.

###### B. Official transmittal letter.

##### Section II. Summary of Proposal

This section provides an overview of the proposed work as well as an introduction to the associated technical and management issues. Further elaboration will be provided in Section III.

- A. {2} Innovative claims for the proposed research. This section is the centerpiece of the proposal and should succinctly describe the uniqueness and benefits of the proposed approach relative to the current state-of-art alternate approaches.
- B. {2} Deliverables associated with the proposed research and the plans and capability to accomplish technology transition and commercialization. Include in this section all proprietary claims to the results, prototypes, intellectual property, or systems supporting and/or necessary for the use of the research, results, and/or demonstration. If there are no proprietary claims, this should be stated.
- C. {3} Cost, schedule and milestones for the proposed research, including estimates of cost for each task in each year of the effort delineated by the prime and major subcontractors, total cost and company cost share, if applicable. **Note: At a minimum, a measurable critical milestone should occur at the end of the effort.** This milestone should enable and support a go/no go decision for the next part of the effort. Additional interim non-critical management milestones are also highly encouraged.
- D. {2} Technical rationale, technical approach, and constructive plan for accomplishment of technical goals in support of innovative claims and deliverable

production. (In the full proposal, this section should be supplemented by a more detailed plan in Section III.)

- E. {1} General discussion of other research in this area.
- F. {1} A clearly defined organization chart for the program team which includes, as applicable: (1) the programmatic relationship of team member; (2) the unique capabilities of team members; (3) the task of responsibilities of team members; (4) the teaming strategy among the team members; and (5) the key personnel along with the amount of effort to be expended by each person during each year.

### Section III. Detailed Proposal Information

The section provides the detailed discussion of the proposed work necessary to enable an in-depth review of the specific technical and managerial issues. Specific attention must be given to addressing both risk and payoff of the proposed work that make it desirable to DARPA.

- A. {2} Statement of Work (SOW) - In plain English, clearly define the technical tasks/subtasks to be performed, their durations, and dependencies among them. The page length for the SOW will be dependant on the amount of the effort. For each task/subtask, provide:
  - A general description of the objective (for each defined task/activity);
  - A detailed description of the approach to be taken to accomplish each defined task/activity);
  - Identification of the primary organization responsible for task execution (prime, sub, team member, by name, etc.);
  - The exit criteria for each task/activity - a product, event or milestone that defines its completion.
  - Define all deliverables (reporting, data, reports, software, etc.) to be provided to the Government in support of the proposed research tasks/activities.

*Note: It is recommended that the SOW should be developed so that each Phase of the program is separately defined. Do not include any proprietary information in the SOW.*

- B. {2} Description of the results, products, transferable technology, and expected technology transfer path enhancing that of Section II. B. This should specifically describe the fundamental change in electromagnetic exploitation that will be enabled by the proposed concept / technology.
- C. {8} Detailed technical rationale enhancing that of Section II.
- D. {3} Detailed technical approach enhancing and completing that of Section II.
- E. {1} Comparison with other ongoing research indicating advantages and disadvantages of the proposed effort.
- F. {1} Discussion of proposer's previous accomplishments and work in closely related research areas.
- G. {1} Description of the facilities that would be used for the proposed effort.

- H. {1} Detail support enhancing that of Section II, including formal teaming agreements which are required to execute this program.
- I. Proposals should clearly explain the technical approach(es) that will be employed to meet or exceed each program metric and provide ample justification as to why the approach(es) is/are feasible.

#### Section IV. Additional Information

A brief bibliography of relevant technical papers and research notes (published and unpublished) which document the technical ideas upon which the proposal is based. Copies of not more than three (3) relevant papers can be included in the submission.

#### **4.3.2.2 Volume II, Cost Proposal – {No Page Limit}**

Cover sheet to include:

- (1) BAA number;
- (2) Technical area;
- (3) Lead Organization Submitting proposal;
- (4) Type of business, selected among the following categories: “LARGE BUSINESS”, “SMALL DISADVANTAGED BUSINESS”, “OTHER SMALL BUSINESS”, “HBCU”, “MI”, “OTHER EDUCATIONAL”, OR “OTHER NONPROFIT”;
- (5) Contractor’s reference number (if any);
- (6) Other team members (if applicable) and type of business for each;
- (7) Proposal title;
- (8) Technical point of contact to include: salutation, last name, first name, street address, city, state, zip code, telephone, fax (if available), electronic mail (if available);
- (9) Administrative point of contact to include: salutation, last name, first name, street address, city, state, zip code, telephone, fax (if available), and electronic mail (if available);
- (10) Award instrument requested: cost-plus-fixed-fee (CPFF), cost-award—no fee, cost sharing contract – no fee, or other type of procurement contract (*specify*), grant, cooperative agreement, or other transaction;
- (11) Place(s) and period(s) of performance;
- (12) Total proposed cost separated by basic award and option(s) (if any);
- (13) Name, address, and telephone number of the offeror’s cognizant Defense Contract Management Agency (DCMA) administration office (*if known*);
- (14) Name, address, and telephone number of the offeror’s cognizant Defense Contract Audit Agency (DCAA) audit office (*if known*);
- (15) Date proposal was prepared;
- (16) DUNS number;
- (17) TIN number; and
- (18) Cage Code;
- (19) Subcontractor Information; and
- (20) Proposal validity period.

Detailed cost breakdown to include: (1) total program cost broken down by major cost items (direct labor, including labor categories; subcontracts; materials; other direct costs, overhead charges, etc.) and further broken down task and phase; (2) major program tasks by year; (3) an itemization of major subcontracts and equipment purchases; (4) an itemization of any information technology (IT) purchase<sup>1</sup>; (5) a summary of projected funding requirements by month; (6) the source, nature, and amount of any industry cost-sharing; and (7) identification of pricing assumptions of which may require incorporation into the resulting award instrument (e.g., use of Government Furnished Property/Facilities/Information, access to Government Subject Matter Expert/s, etc.). Where the effort consists of multiple portions which could reasonably be partitioned for purposes of funding, these should be identified as options with separate cost estimates for each. NOTE: for IT and equipment purchases, include a letter stating why the offeror cannot provide the requested resources from its own funding.

Supporting cost and pricing information in sufficient detail to substantiate the summary cost estimates above. Include a description of the method used to estimate costs and supporting documentation. Note: “cost or pricing data” as defined in FAR Subpart 15.4 shall be required if the offeror is seeking a procurement contract award of \$650,000 or greater unless the offeror request an exception from the requirement to submit cost of pricing data. “Cost or pricing data” are not required if the offeror proposes an award instrument other than a procurement contract (e.g., a grant, cooperative agreement, or other transaction.) All proprietary subcontractor proposal documentation, prepared at the same level of detail as that required of the prime, shall be made immediately available to the Government, upon request, under separate cover (i.e., mail, electronic/email, etc.), either by the Proposer or by the subcontractor organization.

#### **4.4.SUBMISSION DATES AND TIMES**

##### **4.4.1. Proposal Abstract Date**

- 
- <sup>1</sup> IT is defined as “any equipment, or interconnected system(s) or subsystem(s) of equipment that is used in the automatic acquisition, storage, manipulation, management, movement, control, display, switching, interchange, transmission, or reception of data or information by the agency. (a) For purposes of this definition, equipment is used by an agency if the equipment is used by the agency directly or is used by a contractor under a contract with the agency which – (1) Requires the use of such equipment; or (2) Requires the use, to a significant extent, or such equipment in the performance of a service or the furnishing of a product. (b) The term “information technology” includes computers, ancillary, software, firmware and similar procedures, services (including support services), and related resources. (c) The term “information technology” does not include – (1) Any equipment that is acquired by a contractor incidental to a contract; or (2) Any equipment that contains imbedded information technology that is used as an integral part of the product, but the principal function of which is not the acquisition, storage, manipulation, management, movement, control, display, switching, interchange, transmission, or reception of data or information. For example, HVAC (heating, ventilation, and air conditioning) equipment such as thermostats or temperature control devices, and medical equipment where information technology is integral to its operation, are not information technology.”

The proposal abstract (original and designated number of hard and electronic copies) must be submitted to DARPA/STO, 3701 N. Fairfax Drive, Arlington, VA 22203-1714 (Attn.: BAA 08-11) on or before 1:00 p.m., local Arlington, VA time, 31 January 2008. Proposal abstracts received after this time and date may not be reviewed.

#### **4.4.2. Full Proposal Date**

The full proposal (original and four hard and two electronic copies) must be submitted to DARPA/STO, 3701 North Fairfax Drive, Arlington, VA 22203-1714 (Attn.: BAA 08-11) on or before 4:00 p.m., local Arlington, VA time, 14 March 2008, in order to be considered during the initial round of selections; however, proposals received after this deadline may be received and evaluated up to one year from date of posting on FedBizOpps. Full proposals submitted after the due date specified in the BAA or due date otherwise specified by DARPA may be selected contingent upon the availability of funds.

Proposals may be submitted at any time from issuance of this announcement through 20 December 2008; however, offerors are warned that the likelihood of funding is greatly reduced for proposals submitted after the initial closing date deadline.

DARPA will acknowledge receipt of complete submissions via email and assign control numbers that should be used in all further correspondence regarding proposals.

Failure to comply with the submission procedures may result in the submission not being evaluated.

#### **4.5.FUNDING RESTRICTIONS**

Awards will not allow reimbursement of pre-award costs.

### **5. APPLICATION REVIEW INFORMATION**

#### **5.1.EVALUATION CRITERIA**

Evaluation of proposals will be accomplished through a scientific/technical review of each proposal using the following criteria, in descending order of importance: (a) Overall Scientific and Technical Merit; (b) Potential to Fundamentally Change the Way DoD Exploits the Electromagnetic Spectrum; (c) Proposer's Capabilities and Related Experience; (d) Potential Contribution and Relevance to the DARPA Mission; and (e) Cost Realism. Proposals will not be evaluated against each other since they are not submitted in accordance with a common work statement. DARPA's intent is to review proposals as soon as possible after they arrive; however, proposals may be reviewed periodically for administrative reasons. The following are descriptions of the above listed criteria:

### **5.1.1. Overall Scientific and Technical Merit**

The proposed technical approach demonstrates the feasibility of the technology and is feasible, achievable, complete and supported by a proposed technical team that has the expertise and experience to accomplish the proposed tasks. Task descriptions and associated technical elements provided are complete and in a logical sequence with all proposed deliverables clearly defined such that a final product that achieves the goal can be expected as a result of award. The proposal identifies major technical risks and planned mitigation efforts are clearly defined and feasible. The proposal clearly explains the technical approach(es) that will be employed to meet or exceed each the proposed program metrics and provides ample justification as to why the approach(es) is/are feasible. The evaluation will consider:

- Understanding of the problem
- Description of existing phenomenological data to the approach for this effort.
- Description of the technical approach to solve this problem
- Description of research path forward if this initial activity is successful
- Description of metrics that should be included to evaluate technical accomplishment of intended goals

### **5.1.2. Potential to Fundamentally Change the Way DoD Exploits the Electromagnetic Spectrum**

The potential of the proposed technology / concept to fundamentally change the DoD's ability to exploit the electromagnetic spectrum will be evaluated. The ability to transition the technology to the research, industrial, and operational military communities will also be evaluated. This evaluation will include the extent to which intellectual property is being delivered with rights limitations, if any, and the extent to which such limitations may create barriers to technical transition.

### **5.1.3. Proposer's Capabilities and Related Experience**

The proposer's prior experience in similar efforts must clearly demonstrate an ability to deliver products that meet the proposed technical performance within the proposed budget and schedule. The proposed team has the expertise to manage the cost and schedule. Similar efforts completed/ongoing by the proposer in this area are fully described including identification of other Government sponsors.

### **5.1.4. Potential Contribution and Relevance to the DARPA Mission**

The potential contributions of the proposed effort with relevance to the national technology base will be evaluated. Specifically, DARPA's mission is to maintain the technological superiority of the U.S. military and prevent technological surprise from harming our national security by sponsoring revolutionary, high-payoff research that

bridges the gap between fundamental discoveries and their military use. The evaluation will include:

- The extent that this project will support the DARPA and DoD mission
- The likelihood that the proposed technology will have broad impact on military systems

#### **5.1.5. Cost Realism**

The objective of this criterion is to establish that the proposed costs are realistic for the technical and management approach offered, as well as to determine the proposer's practical understanding of the effort. This will be principally measured by cost per labor-hour and number of labor-hours proposed. The evaluation criterion recognizes that undue emphasis on cost may motivate proposers to offer low-risk ideas with minimum uncertainty and to staff the effort with junior personnel in order to be in a more competitive posture. DARPA discourages such cost strategies. Cost reduction approaches that will be received favorably include innovative management concepts that maximize direct funding for technology and limit diversion of funds into overhead.

After selection and before award the contracting officer will negotiate cost/price reasonableness.

Award(s) will be made to proposers whose proposals are determined to be the most advantageous to the Government, all factors considered, including the potential contributions of the proposed work to the overall research program and the availability of funding for the effort. Award(s) may be made to any proposer(s) whose proposal(s) is determined selectable regardless of its overall rating.

**NOTE: PROPOSERS ARE CAUTIONED THAT EVALUATION RATINGS MAY BE LOWERED AND/OR PROPOSALS REJECTED IF SUBMITTAL INSTRUCTIONS ARE NOT FOLLOWED.**

#### **5.2.REVIEW AND SELECTION PROCESS**

It is the policy of DARPA to ensure impartial, equitable, comprehensive proposal evaluations and to select the source (or sources) whose offer meets the Government's technical, policy, and programmatic goals. Pursuant to FAR 35.016, the primary basis for selecting proposals for acceptance shall be technical, importance to agency programs, and fund availability. In order to provide the desired evaluation, qualified Government personnel will conduct reviews and (if necessary) convene panels of experts in the appropriate areas.

Proposals will not be evaluated against each other since they are not submitted in accordance with a common work statement. DARPA's intent is to review proposals as soon as possible after they arrive; however, proposals may be reviewed periodically for administrative reasons. For evaluation purposes, a proposal is the document described in "Proposal Information", Section IV.B.. Other supporting or background materials

submitted with the proposal will be considered for the reviewer's convenience only and not considered as part of the proposal.

Restrictive notices notwithstanding, proposals may be handled for administrative purposes by support contractors. These support contractors are prohibited from competition in DARPA technical research and are bound by appropriate non-disclosure requirements.

Subject to the restrictions set forth in FAR 37.203(d), input on technical aspects of the proposals may be solicited by DARPA from non-Government consultants /experts who are strictly bound by the appropriate non-disclosure requirements.

It is the policy of DARPA to treat all proposals as competitive information and to disclose their contents only for the purpose of evaluation. No proposals will be returned. Upon completion of the source selection process, the original of each proposal received will be retained at DARPA and all other copies will be destroyed.

## **6. AWARD ADMINISTRATION INFORMATION**

### **6.1.AWARD NOTICES**

As soon as the evaluation of a proposal is complete, the proposer will be notified that 1) the proposal has been selected for funding pending contract negotiations, or 2) the proposal has not been selected. These official notifications will be sent via U. S. mail to the Technical POC identified on the proposal coversheet.

### **6.2.ADMINISTRATIVE AND NATIONAL POLICY REQUIREMENTS**

#### **6.2.1. Security**

NOTE: If proposals are classified, the proposal must indicate the classification level of not only the proposal itself, but also the anticipated award document classification level.

The Government anticipates that proposals submitted under this BAA will be unclassified. In the event that a proposer chooses to submit a classified proposal or submit any documentation that may be classified, the following information is applicable.

Security classification guidance on a DD Form 254 will not be provided at this time since DARPA is soliciting ideas only. After reviewing the incoming proposals, a DD Form 254 will be issued and attached as part of the award if a determination is made that the award instrument may result in access to classified information. Proposers choosing to submit a classified proposal must first receive permission from the Original Classification Authority to use their information in replying to this BAA. Applicable classification guide(s) should be submitted to ensure that the proposal is protected appropriately.

Classified submissions shall be in accordance with the following guidance:

**Collateral Classified Information:** Use classification and marking guidance provided by previously issued security classification guides, the Information Security Regulation (DoD 5200.1-R), and the National Industrial Security Program Operating Manual (DoD 5220.22-M) when marking and transmitting information previously classified by another original classification authority. Classified information at the Confidential and Secret level may only be mailed via U.S. Postal Service (USPS) Registered Mail or U.S. Postal Service Express Mail. All classified information will be enclosed in opaque inner and outer covers and double wrapped. The inner envelope shall be sealed and plainly marked with the assigned classification and addresses of both sender and addressee. The inner envelope shall be address to:

Defense Advanced Research Projects Agency  
ATTN: Strategic Technology Office  
Reference: **(BAA 08-11)**  
3701 North Fairfax Drive  
Arlington, VA 22203-1714

The outer envelope shall be sealed with no identification as to the classification of its contents and addressed to:

Defense Advanced Research Projects Agency  
Security & Intelligence Directorate, Attn: CDR  
3701 North Fairfax Drive  
Arlington, VA 22203-1714

All Top Secret materials should be hand carried via an authorized, two-person courier team to the DARPA CDR.

**Special Access Program (SAP) Information:** Contact the DARPA Special Access Program Central Office (SAPCO) 703-526-6614 for further guidance and instructions prior to transmitting SAP information to DARPA. Top Secret SAP, must be transmitted via approved methods for such material. Consult the DoD Overprint to the National Industrial Security Program Operating Manual for further guidance. *Prior to transmitting SAP material*, it is strongly recommended that you coordinate your submission with the DARPA SAPCO.

**Sensitive Compartmented Information (SCI) Data:** Contact the DARPA Special Security Office (SSO) at 703-812-1994/1984 or 703-248-7318 for the correct SCI courier address and instructions. All SCI should be transmitted through your servicing Special Security Officer (SSO). SCI data must be transmitted through SCI channels only (i.e., approved SCI Facility to SCI facility via secure fax).

Proprietary Data: All proposals containing proprietary data should have the cover page and each page containing proprietary data clearly marked as containing proprietary

data. It is the Proposer's responsibility to clearly define to the Government what is considered proprietary data.

Proposers must have existing and in-place prior to execution of an award, approved capabilities (personnel and facilities) to perform research and development at the classification level they propose. It is the policy of DARPA to treat all proposals as competitive information, and to disclose their contents only for the purpose of evaluation. Proposals will not be returned. The original of each proposal received will be retained at DARPA and all other non-required copies destroyed. A certification of destruction may be requested, provided that the formal request is received at this office within 5 days after unsuccessful notification.

### **6.3.INTELLECTUAL PROPERTY**

#### **6.3.1. Procurement Contract Proposers**

##### **6.3.1.1 Noncommercial Items (Technical Data and Computer Software)**

Proposers responding to this BAA requesting a procurement contract to be issued under the FAR/DFARS shall identify all noncommercial technical data and noncommercial computer software that it plans to generate, develop, and/or deliver under any proposed award instrument in which the Government will acquire less than unlimited rights, and to assert specific restrictions on those deliverables. Proposers shall follow the format under DFARS 252.227-7017 for this stated purpose. In the event that proposers do not submit the list, the Government will assume that it automatically has "unlimited rights" to all noncommercial technical data and noncommercial computer software generated, developed, and/or delivered under any award instrument, unless it is substantiated that development of the noncommercial technical data and noncommercial computer software occurred with mixed funding. If mixed funding is anticipated in the development of noncommercial technical data, and noncommercial computer software generated, developed, and/or delivered under any award instrument, then proposers should identify the data and software in question, as subject to Government Purpose Rights (GPR). In accordance with DFARS 252.227-7013 Rights in Technical Data - Noncommercial Items, and DFARS 252.227-7014 Rights in Noncommercial Computer Software and Noncommercial Computer Software Documentation, the Government will automatically assume that any such GPR restriction is limited to a period of five (5) years in accordance with the applicable DFARS clauses, at which time the Government will acquire "unlimited rights" unless the parties agree otherwise. Proposers are admonished that the Government will use the list during the source selection evaluation process to evaluate the impact of any identified restrictions and may request additional information from the proposer, as may be necessary, to evaluate the proposer's assertions. If no restrictions are intended, then the proposer should state "NONE."

A sample list for complying with this request is as follows:

NONCOMMERCIAL
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Technical Data Computer Software To be Furnished With Restrictions	Basis for Assertion	Asserted Rights Category	Name of Person Asserting Restrictions
(LIST)	(LIST)	(LIST)	(LIST)

**6.3.1.2 Commercial Items (Technical Data and Computer Software)**

Proposers responding to this BAA requesting a procurement contract to be issued under the FAR/DFARS shall identify all commercial technical data, and commercial computer software that may be embedded in any noncommercial deliverables contemplated under the research effort, along with any applicable restrictions on the Government’s use of such commercial technical data and/or commercial computer software. In the event that proposers do not submit the list, the Government will assume that there are no restrictions on the Government’s use of such commercial items. The Government may use the list during the source selection evaluation process to evaluate the impact of any identified restrictions and may request additional information from the proposer, as may be necessary, to evaluate the proposer’s assertions. If no restrictions are intended, then the proposer should state “NONE.”

A sample list for complying with this request is as follows:

COMMERCIAL			
Technical Data Computer Software To be Furnished With Restrictions	Basis for Assertion	Asserted Rights Category	Name of Person Asserting Restrictions
(LIST)	(LIST)	(LIST)	(LIST)

**6.3.2. Nonprocurement Contract Proposers**

**6.3.2.1 Noncommercial and Commercial Items (Technical Data and Computer Software)**

Proposers responding to this BAA requesting a Grant, Cooperative Agreement, Technology Investment Agreement, or Other Transaction for Prototype shall follow the applicable rules and regulations governing these various award instruments, but in all cases should appropriately identify any potential restrictions on the Government’s use of any Intellectual Property contemplated under those award instruments in question. This includes both Noncommercial Items and Commercial Items. Although not required, proposers may use a format similar to that described in Paragraphs 1.a and 1.b above. The Government may use the list during the source selection evaluation process to evaluate the impact of any identified restrictions, and may request additional information

from the proposer, as may be necessary, to evaluate the proposer's assertions. If no restrictions are intended, then the proposer should state "NONE."

### **6.3.2.2 All Proposers – Patents**

Include documentation proving your ownership of or possession of appropriate licensing rights to all patented inventions (or inventions for which a patent application has been filed) that will be utilized under your proposal for the DARPA program. If a patent application has been filed for an invention that your proposal utilizes, but the application has not yet been made publicly available and contains proprietary information, you may provide only the patent number, inventor name(s), assignee names (if any), filing date, filing date of any related provisional application, and a summary of the patent title, together with either: 1) a representation that you own the invention, or 2) proof of possession of appropriate licensing rights in the invention.

### **6.3.2.3 All Proposers – Intellectual Property Representations**

Provide a good faith representation that you either own or possess appropriate licensing rights to all other intellectual property that will be utilized under your proposal for the DARPA program. Additionally, proposers shall provide a short summary for each item asserted with less than unlimited rights that describes the nature of the restriction and the intended use of the intellectual property in the conduct of the proposed research.

## **6.4. MEETING AND TRAVEL REQUIREMENTS**

There will be a program kickoff meeting at or near DARPA in northern Virginia and all key participants are required to attend. Performers should also anticipate periodic site visits at the Program Manager's discretion.

## **6.5. HUMAN USE**

Proposals selected for contract award are required to comply with provisions of the Common Rule (32 CFR 219) on the protection of human subjects in research (<http://www.dtic.mil/biosys/downloads/32cfr219.pdf>) and the Department of Defense Directive 3216.2 (<http://www.dtic.mil/whs/directives/corres/html2/d32162x.htm>). All proposals that involve the use of human subjects are required to include documentation of their ability to follow Federal guidelines for the protection of human subjects. This includes, but is not limited to, protocol approval mechanisms, approved Institutional Review Boards, and Federal Wide Assurances. These requirements are based on expected human use issues sometime during the entire length of the proposed effort.

For proposals involving "greater than minimal risk" to human subjects within the first year of the project, performers must provide evidence of protocol submission to a federally approved IRB at the time of final proposal submission to DARPA. For proposals that are forecasted to involve "greater than minimal risk" after the first year, a discussion on how and when the proposer will comply with submission to a federally

approved IRB needs to be provided in the submission. More information on applicable federal regulations can be found at the Department of Health and Human Services – Office of Human Research Protections website (<http://www.dhhs.gov/ohrp/>). Any aspects of a proposal involving human use should be specifically called out as a separate element of the statement of work and cost proposal to allow for independent review and approval of those elements.

## **6.6. ANIMAL USE**

Any Recipient performing research, experimentation, or testing involving the use of animals shall comply with the rules on animal acquisition, transport, care, handling, and use in: (i) 9 CFR parts 1-4, Department of Agriculture rules that implement the Laboratory Animal Welfare Act of 1966, as amended, (7 U.S.C. 2131-2159); and (ii) the guidelines described in National Institutes of Health Publication No. 86-23, “Guide for the Care and Use of Laboratory Animals.”

## **6.7. PUBLIC RELEASE OR DISSEMINATION OF INFORMATION**

(a) Proposers are advised if they propose grants or cooperative agreements, DARPA may elect to award other award instruments. DARPA will make this selection if it determines that the research resulting from the proposed program will present a high likelihood of disclosing performance characteristics of military systems or manufacturing technologies that are unique and critical to defense. Any award resulting from such a determination will include a requirement for DARPA permission before publishing any information or results on the program.

(b) When submitting material for written approval for open publication, the Contractor must submit a request for public release request to the DARPA TIO and include the following information: 1) Document Information: document title, document author, short plain-language description of technology discussed in the material (approx 30 words), number of pages (or minutes of video) and document type (briefing, report, abstract, article, or paper); 2) Event Information: event type (conference, principle investigator meeting, article or paper), event date, desired date for DARPA's approval; 3) DARPA Sponsor: DARPA Program Manager, DARPA office, and contract number; and 4) Contractor's Information: POC name, e-mail and phone. Allow four weeks for processing; due dates under four weeks require a justification. Unusual electronic file formats may require additional processing time. Requests can be sent either via e-mail to [tio@darpa.mil](mailto:tio@darpa.mil) or via 3701 North Fairfax Drive, Arlington VA 22203-1714, telephone (571) 218-4235. Refer to [www.darpa.mil/tio](http://www.darpa.mil/tio) for information about DARPA's public release process.

## **6.8. EXPORT CONTROL**

Should this project develop beyond fundamental research (basic and applied research ordinarily published and shared broadly within the scientific community) with military or dual-use applications, the following apply:

(1) The Contractor shall comply with all U. S. export control laws and regulations, including the International Traffic in Arms Regulations (ITAR), 22 CFR Parts 120 through 130, and the Export Administration Regulations (EAR), 15 CFR Parts 730 through 799, in the performance of this contract. In the absence of available license exemptions/exceptions, the Contractor shall be responsible for obtaining the appropriate licenses or other approvals, if required, for exports of (including deemed exports) hardware, technical data, and software, or for the provision of technical assistance.

(2) The Contractor shall be responsible for obtaining export licenses, if required, before utilizing foreign persons in the performance of this contract, including instances where the work is to be performed on-site at any Government installation (whether in or outside the United States), where the foreign person will have access to export-controlled technologies, including technical data or software.

(3) The Contractor shall be responsible for all regulatory record keeping requirements associated with the use of licenses and license exemptions/exceptions.

(4) The Contractor shall be responsible for ensuring that the provisions of this clause apply to its subcontractors.

## **6.9. SUBCONTRACTING**

Pursuant to Section 8(d) of the Small Business Act (15 U.S.C. 637(d)), it is the policy of the Government to enable small business and small disadvantaged business concerns to be considered fairly as subcontractors to contractors performing work or rendering services as prime contractors or subcontractors under Government contracts, and to assure that prime contractors and subcontractors carry out this policy. Each proposer who submits a contract proposal and includes subcontractors is required to submit a subcontracting plan in accordance with FAR 19.702(a) (1) and (2) should do so with their proposal. The plan format is outlined in FAR 19.704.

## **6.10. REPORTING**

The number and types of reports will be specified in the award document, but will include as a minimum quarterly program and financial status reports. The reports shall be prepared and submitted in accordance with the procedures contained in the award document and mutually agreed on before award. Reports and briefing material will also be required as appropriate to document progress in accomplishing program metrics. A Final Report that summarizes the project and tasks will be required at the conclusion of the performance period for the award, notwithstanding the fact that the research may be continued under a follow-on vehicle.

### **6.10.1. Central Contractor Registration (CCR)**

Selected proposers not already registered in the Central Contractor Registry (CCR) will be required to register in CCR prior to any award under this BAA. Information on CCR registration is available at <http://www.ccr.gov>.

#### **6.10.2. Representations and Certifications**

In accordance with FAR 4.1201, prospective proposer's shall complete electronic annual representations and certifications at <http://orca.bpn.gov>.

#### **6.10.3. Wide Area Work Flow (WAWF)**

Unless using another approved electronic invoicing system, performers will be required to submit invoices for payment directly via the Internet/WAWF at <http://wawf.eb.mil>. Registration to WAWF will be required prior to any award under this BAA.

#### **6.10.4. T-FIMS**

The award document for each proposal selected and funded will contain a mandatory requirement for four DARPA Quarterly Status Reports each year, one of which will be an annual project summary. These reports will be electronically submitted by each awardee under this BAA via the DARPA Technical – Financial Information Management System (T-FIMS). The T-FIMS URL and instructions will be furnished by the contracting agent upon award.

### **6.11. AGENCY CONTACTS**

DARPA intends to use electronic mail for all technical and administrative correspondence regarding this BAA, with the exception of selected/not-selected notifications, which will be sent via U.S. Mail.

Administrative, technical or contractual questions should be sent via e-mail to BAA08-11@darpa.mil. If e-mail is not available, fax questions to 703-516-8732, Attention: BAA 08-11. All requests must include the name, email address, and phone number of a point of contact.

#### Points of Contact

The technical POC for this effort is:

Preston Marshall  
fax: 703-516-8732  
electronic mail: BAA08-11@darpa.mil  
DARPA/STO  
ATTN: BAA 08-11  
3701 North Fairfax Drive  
Arlington, VA 22203-1714