



Broad Agency Announcement

Fracture Putty

Defense Sciences Office

DARPA-BAA-08-50

6/4/2008

Part Two: Full Text of Announcement	4
I. FUNDING OPPORTUNITY DESCRIPTION	4
II. AWARD INFORMATION	6
III. ELIGIBILITY INFORMATION	6
A. Eligible Applicants	6
1. Procurement Integrity, Standards of Conduct, Ethical Considerations, and Organizational Conflicts of Interest	7
B. Cost Sharing/Matching	7
C. Other Eligibility Criteria	8
1. Collaborative Efforts	8
IV. APPLICATION AND SUBMISSION INFORMATION	8
A. Address to Request Application Package	8
B. Content and Form of Application Submission	8
1. Proposal Information	8
2. Full Proposal Format	10
C. Submission Dates and Times	17
1. Full Proposal Date	17
D. Intergovernmental Review	18
E. Funding Restrictions	18
F. Other Submission Requirements	18
V. APPLICATION REVIEW INFORMATION	19
A. Evaluation Criteria	19
B. Review and Selection Process	20
VI. AWARD ADMINISTRATION INFORMATION	21
A. Award Notices	21
B. Administrative and National Policy Requirements	21
1. Security	21
2. Intellectual Property	23
3. Meeting and Travel Requirements	23
4. Human Use	23
5. Animal Use	24
6. Publication Approval	25
7. Export Control	25
8. Subcontracting	26
C. Reporting	26
D. Central Contractor Registration (CCR)	26
F. Wide Area Work Flow (WAWF)	27
VII. AGENCY CONTACTS	27

Part One: Overview Information

- **Federal Agency Name** – Defense Advanced Research Projects Agency (DARPA), Defense Sciences Office (DSO)
- **Funding Opportunity Title** – Fracture Putty
- **Announcement Type** – Initial Announcement
- **Funding Opportunity Number** – DARPA-Broad Agency Announcement (BAA)-08-50
- **Catalog of Federal Domestic Assistance Numbers (CFDA)** – 12.910 Research and Technology Development
- **Dates**
 - Proposer’s Day Workshop (SN 08-36), July 1, 2008
 - **Initial Full Proposals are due by 4:00PM ET, July 29, 2008.**
 - Closing Date, 4:00PM ET, **June 4, 2009 (1 year from posting date on FedBizOpps).**
- **Description of the funding opportunity** – DARPA seeks to develop a dynamic putty which, when packed in/around a compound bone fracture, provides full load-bearing capabilities within hours, creates an osteoconductive bone-like internal structure, and degrades over time to harmless resorbable by-products as normal bone regenerates.
- Multiple awards are anticipated.
- **Types of instruments that may be awarded** – Procurement contract, grant, cooperative agreement, or other transaction for research.
- **Agency contact**
 - Points of Contact:
The BAA Technical POC is Dr. Mitchell R. Zakin, who can be reached at Mitchell.Zakin@darpa.mil

The BAA Administrator for this effort can be reached at:
Electronic mail: BAA08-50@darpa.mil

DARPA/DSO
ATTN: DARPA-BAA-08-50
3701 North Fairfax Drive
Arlington, VA 22203-1714
Phone: (571) 218-4565

Solicitations can be viewed at:
Web: <http://www.darpa.mil/dso/solicitations/solicit.htm>

Part Two: Full Text of Announcement

I. FUNDING OPPORTUNITY DESCRIPTION

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

Approximately 30% of all battlefield trauma cases involve bone fractures, typically due to high energy events such as blasts or gunshots. The severity and combination of symptoms are peculiar to military conflicts: comminuted open fractures (most typically long bone) with large loss of bone, accompanied by significant soft tissue loss. Such cases are very difficult to treat, often requiring multiple surgeries and long healing/rehabilitation times (up to 2 years). Amputations have become increasingly common. Current treatment modalities, such as internal or external fixation with Ti plates, screws, and rods, and the Ilizarov distraction method for bone-lengthening, have significant deficiencies, arising from the severe mechanical property mismatch between Ti and bone. This mismatch leads to complications including further fractures, delayed healing, and a high prevalence of infection. Furthermore, these methods do not work for large segmental defects (> 2cm), and are not fully load-bearing, so the warfighter is effectively incapacitated during the recovery period. More effective methods for treatment of skeletal trauma are urgently needed.

In response to this challenge, DARPA is seeking innovative proposals to develop Fracture Putty, a dynamic putty-like material which, when packed in/around a compound bone fracture, *provides full load-bearing capabilities within days*, creates an osteoconductive bone-like internal structure, and degrades over time to harmless resorbable by-products as normal bone regenerates. Fracture Putty represents the ultimate convergence of materials science, mechanics, and orthopedics. If successful, Fracture Putty will yield unprecedented benefits:

- the patient is rapidly restored to ambulatory function while healing occurs at the body's natural pace;
- single procedure which significantly simplifies orthopedic surgery: "put it in, close it up, good to go;"
- no further secondary fractures, normal healing, no infection;
- reduce recovery/rehabilitation from 2 years to few days;
- potentially most effective treatment for severe bone loss;
- potentially the first treatment for joint fractures; and
- significant reduction in the number of amputations

To be effective, it is anticipated that Fracture Putty must be curable *in-vivo*, and closely match the mechanical (stress/strain – in tension, compression, bending, and torsion) and structural properties of natural bone. Fracture Putty will, at a minimum:

- provide initial fracture fixation, followed by full load-bearing capability for patient ambulation;
- create an optimal mechanical environment for natural bone regrowth, including within large gaps between bone segments (critical defects and open voids) for which there is no current treatment;
- be intrinsically non-toxic and non-antigenic;
- degrade into harmless resorbable by-products, and/or be resorbed by osteoclasts, the body's bone-dissolving cells, as bone regenerates, thus transferring load-bearing to bone over time;
- be compatible with, and infusible by, existing osteoinductive bone pastes, growth factors, antibiotics, etc.

To achieve the Fracture Putty vision, key technological breakthroughs will center on the following critical areas:

- novel bioresorbable adhesives which bond preferentially to bone vs. soft tissues, with bone-like mechanical properties, in the wet biological environment;
- load-bearing biomaterials with high mechanical strength AND high porosity that match the mechanical properties of bone;
- biomaterials which create hierarchical bone-like internal structure;
- biomaterials which adapt to biochemical cues; and
- mathematical models for dynamically remodeling systems with complex stimuli.

Proposed research should investigate innovative approaches that enable revolutionary advances in science, devices, or systems. Any innovative approach for Fracture Putty that meets the BAA's goals will be considered. Specifically excluded is research that primarily results in evolutionary improvements to the existing state of practice.

Phase I focuses on establishing the fundamental Fracture Putty materials science and *in-vivo* demonstration of Fracture Putty in a large animal model for long-bone critical segmental defects. The specific Phase I Go/No-Go metrics for the Fracture Putty program are presented in Section IV.B.2 (Full Proposal Format), under "Volume I, Technical and Management Proposal," Section II.C. The Phase II metrics will be determined by the results of the Phase I effort and the specific types of orthopedic trauma to be treated.

To realize the program vision and meet the Phase I metrics, each research effort requires performers with expertise in chemistry, biomaterials, adhesives, mechanics, theoretical modeling of dynamic systems under complex mechanical stress, biology of bone, animal models of bone trauma, clinical orthopedics and orthopedic surgery, and engineering. Teaming is encouraged, especially when interdisciplinary approaches to a problem are required.

II. AWARD INFORMATION

Multiple awards are anticipated. The amount of resources made available to this BAA will depend on the quality of the proposals received and funds availability. Proposals identified for funding may result in a procurement contract, grant, cooperative agreement or other transaction for research depending upon the nature of the work proposed, the required degree of interaction between parties, and other factors. Proposers should note that the required degree of interaction between parties will be to the maximum extent possible as allowed by the contractual vehicle.

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 proposers. 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 proposer. If the proposed effort is inherently divisible and nothing is gained from the aggregation, proposers should consider submitting it as multiple independent efforts. The Government reserves the right to fund proposals in phases with options for continued work at the end of one or more of the phases.

Awards under this BAA will be made to proposers on the basis of the evaluation criteria listed below (see Sec. V., "Application Review Information") and overall value to the Government.

III. ELIGIBILITY INFORMATION

A. 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 BAA 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. If documentation is unavailable at the time of submission, Government/National Laboratories should remove all references to the BAA title and number, as they will be submitting non-competitively.

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.

1. Procurement Integrity, Standards of Conduct, Ethical Considerations, and Organizational Conflicts of Interest

Current federal employees are prohibited from participating in particular matters involving conflicting financial, employment, and representational interests (18 USC 203, 205, and 208.). The DARPA Program Manager for this BAA is Dr. Mitchell R. Zakin. As of the date of first publication of the BAA, the Government has not identified any potential conflicts of interest involving this program manager. Once the proposals have been received, and prior to the start of proposal evaluations, the Government will assess potential conflicts of interest and will promptly notify the proposer if any appear to exist. (Please note the Government assessment does NOT affect, offset, or mitigate the proposer's own duty to give full notice and planned mitigation for all potential organizational conflicts, as discussed below.) The Program Manager is required to review and evaluate all proposals received under this BAA and to manage all selected efforts. Proposers should carefully consider the composition of their performer team before submitting a proposal to this BAA.

All Proposers and proposed subcontractors must affirm whether they are providing scientific, engineering, and technical assistance (SETA) or similar support to any DARPA technical 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, a Contractor 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 BAA08-50@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.

B. Cost Sharing/Matching

Cost sharing is not required for any 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.

C. Other Eligibility Criteria

1. Collaborative Efforts

Collaborative efforts/teaming are encouraged. A teaming website, <http://www.sainc.com/FPTeaming>, has been established to facilitate the formation of teams with the necessary expertise. Specific content, communications, networking, and team formation are the sole responsibility of the participants. Neither DARPA nor the DoD endorses the destination web site or the information and organizations contained therein, nor does DARPA or the DoD exercise any responsibility at the destination. This website is provided consistent with the stated purpose of this BAA. Additionally, a Proposers' Workshop is being held July 1, 2008, to better familiarize potential proposers with the program vision, objectives, and milestones. This workshop will facilitate technical exchange between interested entities and provide opportunities associated with the development of an interdisciplinary team. Full details are available at Special Notice (SN 08-36), <http://www.darpa.mil/dso/solicitations/solicit.htm>.

IV. APPLICATION AND SUBMISSION INFORMATION

A. 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.

B. Content and Form of Application Submission

1. Proposal Information

Early submissions of full proposals are strongly encouraged because selections may be made at any time during the evaluation process. DARPA will review all full proposals submitted using the published evaluation criteria. Proposers are required to submit full proposals by the time and date specified in the BAA in order to be considered during the initial round of selections. This BAA shall remain open for one (1) year from the date of publication on www.fbo.gov. **No white papers are requested and any submitted will be rejected without review.** Proposers may submit a full proposal at any time up to the BAA closing date. Although the Government may select proposals for award at any time during this period, it is anticipated that the majority of funding for this program will be committed during the initial selections from proposals that are submitted by 4:00PM ET, July 29, 2008. **In order to be considered during the initial round of funding, full proposals must be submitted to DARPA/DSO via <http://www.sainc.com/dsobaa/> (Attn.: DARPA-BAA 08-50) on or before 4:00PM ET, July 29, 2008.** Further awards after the initial round of funding will be made contingent on funds availability.

Full proposals may not be submitted by fax or e-mail; any so sent will be disregarded.

The typical proposal should express a consolidated effort in support of all technical interest areas to achieve an effective Fracture Putty material. 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 not meeting the format described in the BAA may not be reviewed and will be rejected back to the submitter.

General Submissions (For Proposers Submitting to DSO’s Electronic Business Application):

All proposals submitted electronically by means of an Electronic Business Application Tool or proposal submission web site (not including Grants.gov) must be encrypted using WinZip or PKZip with 256-bit AES encryption. Only one zipped/encrypted file will be accepted per proposal and proposals not zipped/encrypted will be rejected by DARPA. An encryption password form must be completed and emailed to BAA08-50@darpa.mil at the time of proposal submission. See <https://www.tfims.darpa.mil/baa/> for the encryption password form.

Note the word “PASSWORD” must appear in the subject line of the above email and there are minimum security requirements for establishing the encryption password. Failure to provide the encryption password may result in the proposal not being evaluated. For further information and instructions on how to zip and encrypt proposal files, see <https://www.tfims.darpa.mil/baa/>.

Note that the TFIMS website listed above (<https://www.tfims.darpa.mil/baa/>) does NOT host DSO solicitations. For responses to DSO solicitations, a website, <http://www.sainc.com/dsobaa/>, has been established to facilitate the submission of proposal abstracts and full proposals electronically. This site will allow submission of contact information and the upload of a single document in either Word or PDF format, up to 25 MB. As noted above, all BAA submissions must be zipped and encrypted using WinZip or PKZip with 256-bit AES encryption. Again, only one compressed/encrypted file, containing a single proposal document, will be accepted per submission and those submissions that are not compressed/encrypted will be rejected by DARPA/DSO. The aforementioned password form and detailed encryption instructions are available for download at <http://www.sainc.com/dsobaa/>.

Grants.Gov Applications (Non-profits, Universities, etc.):

Proposers may use the Grants.gov APPLY function if seeking a grant or cooperative agreement. However, please note that due to the new DARPA security policies, submitters still need to visit <http://www.sainc.com/dsobaa/> to register their organization concurrently **and** are required to send in a password form via email to ensure the DSO BAA office can verify the security of their submission.

For All:

Any administrative questions or issues regarding this solicitation should be directed to the administrative address below; e-mail is preferred:

BAA08-50@darpa.mil

BAA Administrator, Phone: (571) 218-4565

DARPA/DSO

ATTN: DARPA-BAA-08-50

3701 North Fairfax Drive

Arlington, VA 22203-1714

Upon review, DARPA/DSO will use facsimile transmission and standard post mail for correspondence regarding DARPA-BAA-08-50 evaluation results. DARPA encourages use of the Internet (<http://www.darpa.mil/dso/solicitations/solicit.htm>) for retrieving the BAA and any other related information that may subsequently be provided.

2. Full 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, combined into one document prior to submission. All pages shall be printable on single-spaced, 8-1/2 by 11 inch paper with type not smaller than 12 point font. Smaller font may be used for figures, tables and charts. 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. Intellectual Property/Patents Requirements and the bibliography are not included in the page counts. 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** pages. Maximum page lengths for each section are shown in braces { } below.

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 BUSINESS", "SMALL DISADVANTAGED BUSINESS", "8A", "OTHER SMALL BUSINESS", "EMERGING SMALL BUSINESS", "VETERAN-OWNED SMALL BUSINESS", "SERVICE-DISABLED VETERAN OWNED", "OTHER VETERAN", "WOMAN-OWNED BUSINESS", "HUBZONE", "JWOD PARTICIPATING NONPROFIT AGENCY", "OTHER NONPROFIT",

"HOSPITAL", "FOREIGN CONCERN OR ENTITY", "DOMESTIC FIRM PERFORMING OUTSIDE U.S.", "HISTORICALLY BLACK COLLEGE OR UNIVERSITY (HBCU)", "MINORITY INSTITUTION (MI)", "OTHER EDUCATIONAL", "FFRDC (INCLUDING DOE LABORATORIES)", "DOD COMPONENT", "OTHER GOVERNMENT", "OTHER"

- (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, Nine-Digit 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, Nine-Digit Zip Code, Telephone, Fax (if available), Electronic Mail (if available),
- (10) Date proposal was prepared
- (11) Total Funds requested from DARPA
- (12) Duration (in months) of Proposed Work

B. Official Signed Transmittal Letter.

Section II. Detailed Proposal Information

This 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. {1} Executive Summary: An executive summary, including the key technical challenges, concise review of the technologies proposed to overcome these challenges and achieve the program goal, and a clear statement of the novelty and uniqueness of the proposed idea.
- B. {2} Statement of Work (SOW) written in plain English, citing specific tasks to be performed and their connection to the interim milestones and program metrics. The SOW must not include proprietary information. 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: Do not include any proprietary information in the SOW.

- C. {18} Detailed technical approach in support of the innovative claims. Address how the proposed approach is revolutionary and how it rises above the current state of the art. Proposals MUST provide several specific, quantitative milestones at intermediate stages of the program to assess program progress towards the Phase I metrics, as well as a constructive plan for accomplishment of the interim milestones. 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.

The Phase I Go/No-Go metrics are as follows:

1. *In-vivo* demonstration of Fracture Putty in a large animal model for long-bone critical segmental defects. The Phase I model consists of sheep with a single 25-50 mm segmental femoral defect created by smooth transverse cuts through the bone. Demonstrate full load-bearing ambulation within 7 days, followed by complete bone regeneration within a physiologically relevant timeframe.
 2. Pass independent evaluation by military orthopedic laboratory.
- D. {2} Time-phased schedule and payable milestones chart. Phase I will be a fundamental research effort. Higher consideration will be given to efforts that satisfy the milestones in the least amount of time. **Note: Measurable critical milestones should occur every 6 months after start of effort.** These payable milestones should enable and support a go/no-go decision for the next part of the effort. Do not include proprietary information with the milestones. Additional interim non-critical milestones are also highly encouraged at regular intervals. 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. Proposers must clearly describe the Program Metrics in the schedule and milestones chart.
- E. {2} Deliverables associated with the proposed research and the plans and capability to accomplish technology transition and commercialization. (See Section III below for guidance on Proprietary Claims and Intellectual Property.)
- F. {3} Organization and Management: A clearly defined organization chart for the program team which includes, as applicable: (1) the programmatic relationship of team members; (2) the unique capabilities of team members; (3) the team members' responsibilities; (4) the teaming strategy among the team members; (5) the key personnel along with the amount of effort to be expended by each person during each year. A Principal Investigator for the project must be identified. That person will assume all responsibilities for the conduct of the effort. Provide a detailed plan for coordination of the proposed effort, including explicit roles for each collaborator/subcontractor. Risk management approaches should be included. The proposer team must have demonstrated expertise in ALL pertinent technical areas. Details of any formal teaming agreements which are required to execute this program. A description of the facilities that would be used for the proposed effort.

- G. {1} Comparison with other ongoing research indicating advantages and disadvantages of the proposed effort. Clearly describe how the proposed technical approach is revolutionary and how it significantly rises above the current state of the art.
- H. {1} Brief discussion of proposer’s previous accomplishments and work in closely related research areas.

Section III. Other Required Information (Does Not Count Toward Volume I Page Limitation)

A. Intellectual Property – Procurement Contract Proposers

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

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)

B. Intellectual Property – Non-Procurement Contract Proposers

Noncommercial and Commercial Items (Technical Data and Computer Software)

Proposers responding to this BAA requesting an other transaction for research 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 paragraph A. 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.”

C. All Proposers – Patents

Proposers shall include documentation proving their 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 their proposal for the DARPA program. If a patent application has been filed for an invention that the proposal utilizes, but the application has not yet been made publicly available and contains proprietary information, the proposer 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 they own the invention, or 2) proof of possession of appropriate licensing rights in the invention.

D. All Proposers – Intellectual Property Representations

Proposers shall provide a good faith representation that they either own or possess appropriate licensing rights to all other intellectual property that will be utilized under their 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.

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.

Volume II, Cost Proposal – {No Page Limit}

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 BUSINESS", "SMALL DISADVANTAGED BUSINESS", "8A", "OTHER SMALL BUSINESS", "EMERGING SMALL BUSINESS", "VETERAN-OWNED SMALL BUSINESS", "SERVICE-DISABLED VETERAN OWNED", "OTHER VETERAN", "WOMAN-OWNED BUSINESS", "HUBZONE", "JWOD PARTICIPATING NONPROFIT AGENCY", "OTHER NONPROFIT", "HOSPITAL", "FOREIGN CONCERN OR ENTITY", "DOMESTIC FIRM PERFORMING OUTSIDE U.S.", "HISTORICALLY BLACK COLLEGE OR UNIVERSITY (HBCU)", "MINORITY INSTITUTION (MI)", "OTHER EDUCATIONAL", "FFRDC (INCLUDING DOE LABORATORIES)", "DOD COMPONENT", "OTHER GOVERNMENT", "OTHER"
- (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, Nine-Digit Zip Code, Telephone, Fax (if available), Electronic Mail
- (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: Grant, Cooperative Agreement, Cost-Plus-Fixed-Fee (CPFF), Cost-Contract - no fee, Cost Sharing Contract - no fee, or

Other Type of Procurement Contract (*specify*) or Other Transaction for research

- (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 Proposer's Cognizant Defense Contract Management Agency (DCMA) Administration Office, Office of Naval Research (ONR) Administration Office, or Other Applicable Government Organization (*if known*)
- (14) Name, Address, and Telephone Number of the Proposer's Cognizant Defense Contract Audit Agency (DCAA) Audit Office, ONR, or Other Applicable Government Office (*if known*)
- (15) Date Proposal was Prepared
- (16) DUNS Number
- (17) TIN Number
- (18) Cage Code

B. 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 by Government Fiscal Year (GFY = Oct 1 – 30 Sep);
- (2) Major program tasks by GFY;
- (3) An itemization of major subcontracts and equipment purchases;
- (4) An itemization of any information technology (IT¹) purchases broken down by month/year for each computer hardware cost, computer software cost, and other related costs such as computer maintenance fees or support services costs;
- (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.)

-
- ¹ 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, of 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 prime contractor is responsible for compiling and providing all subcontractor proposals for the Procuring Contracting Officer (PCO). Subcontractor proposals should include Interdivisional Work Transfer Agreements (ITWA) or similar arrangements.

Where the effort consists of multiple portions which could reasonably be partitioned for purposes of funding, these should be identified as option with separate cost estimates for each.

NOTE: For IT and equipment purchases, include a letter stating why the proposer cannot provide the requested resources from its own funding.

C. Supporting cost and pricing information in sufficient detail to substantiate the summary cost estimates in B. 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 proposer is seeking a procurement contract award of \$650,000 or greater unless the proposer requests an exception from the requirement to submit cost of pricing data. “Cost or pricing data” are not required if the proposer proposes an award instrument other than a procurement contract. All subcontractor proposal documentation, prepared at the same level of detail as that required of the prime, shall be included, either by the proposer or by the subcontractor organization.

NOTE: The FY2008 Defense Appropriations Act caps indirect cost rates for any procurement contract, grant or agreement using 6.1 Basic Research FY08/09 Funding at 35% of the total cost of the award. Total costs include all bottom line costs. Indirect costs are all costs of a prime award that are Facilities and Administration costs (for awardees subject to the cost principles in 2 CFR part 220) or indirect costs (for awardees subject to the cost principles in 2 CFR part 225 or 230 or 48 CFR part 32). If DARPA uses 6.1 funding for any efforts, the Contractor must be made aware that total negotiated indirect cost rates may not exceed 35% of the total cost of the award. The cost limitations do not flow down to subcontractors. The original text of the Act can be found at Department of Defense Appropriations Act of 2008, Pub. L. No. 110-116, §8115, http://frwebgate.access.gpo.gov/cgi-bin/getdoc.cgi?dbname=110_cong_public_laws&docid=f:publ116.110.

C. Submission Dates and Times

1. Full Proposal Date

To receive consideration under this BAA, **FULL PROPOSALS MUST BE RECEIVED ON OR BEFORE 4:00 PM ET, on July 29, 2008** in order to be considered during the initial round of selections. Proposals received after this deadline may be received and evaluated up to one year from date of posting on FedBizOpps; however, further awards after the initial round of funding will be made contingent on funds availability, and proposers 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 confirm control numbers that should be used in all further correspondence regarding proposals. If no confirmation is received within 2 business days, please contact the BAA Administrator at BAA08-50@darpa.mil to ensure the proposal was submitted properly.

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

Unclassified Addresses for Submission

UNCLASSIFIED full proposals should be submitted online via the following website:

<http://www.sainc.com/dsobaa/> and/or
<http://www.grants.gov>

The Government anticipates that full proposals submitted under this BAA will be UNCLASSIFIED.

D. Intergovernmental Review

Not applicable.

E. Funding Restrictions

Not applicable.

F. Other Submission Requirements

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 they wish 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 such as "Company Confidential" or other phrases that may be confused with national security classifications shall be avoided. The proposer may be required to remove such markings before the proposal will be accepted. "Proprietary" or "Company Proprietary" are acceptable notations.

V. APPLICATION REVIEW INFORMATION

A. Evaluation Criteria

Evaluation of proposals will be accomplished through a technical review of each proposal using the following criteria, which are listed in descending order of relative importance: (1) Ability to Meet Program Go/No-Go Metrics; (2) Scientific and Technical Merit; (3) Value to Defense; (4) Capabilities of the Personnel and Facilities to Perform the Proposed Effort; and (5) 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:

(1) Ability to Meet Program Go/No-Go Metrics

The feasibility and likelihood of the proposed approach for satisfying the program go/no-go metrics are explicitly described and clearly substantiated. The proposal reflects a mature and quantitative understanding of the program go/no-go metrics, the statistical confidence with which they may be measured, and their relationship to the concept of operations that will result from successful performance in the program. Note that higher consideration will be given to efforts that will satisfy the metrics in less time.

(2) Scientific and Technical Merit

Proposers must demonstrate that their proposal is innovative and unique, that the technical approach is sound, that they have an understanding of critical technical issues and risk, and that they have a plan for mitigation of those risks. A significant improvement in capability or understanding above the state of the art must be demonstrated. All milestones must be clearly and quantitatively described.

(3) Value to Defense

Proposers must demonstrate the potential of successful research to radically change military capability or improve national security with a clear statement of the goals of their program and a quantitative comparison with existing technology. Equally important is the capability to transition the technology to the research, industrial, and operational military communities in such a way as to enhance U.S. defense. Potential limitations on transition due to intellectual property restrictions will be considered.

(4) Capability of the Personnel and Facilities to Perform the Proposed Effort

Proposers must demonstrate that their team has the necessary background and experience to perform this project. The balance of the technical capabilities of the team must match that required in the program plan. The relevant experience of key

personnel must be sufficient to provide confidence that the proposers can accomplish their objectives. Proposers must demonstrate that the combined facilities of the team are sufficient to accomplish the objectives of the proposal.

(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 recognize 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. Costs must be provided by GFY and further detailed.

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.

B. Review and Selection Process

It is the policy of DARPA to ensure impartial, equitable, and comprehensive proposal evaluations and to select the source (or sources) whose offer meets the Government's technical, policy, and programmatic goals. 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 two-volume single document described in the Full Proposal Format section above.

All proprietary information should be marked on the full proposal. It is the policy of DARPA to treat all proposals as competitive information and to disclose their contents only for the purpose of evaluation. 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.

Inputs on technical aspects of the proposals may be solicited by DARPA from non-Government consultants/experts who are bound by appropriate non-disclosure requirements. Non-Government technical consultants/experts will not have access to proposals that are labeled by their proposers as "Government Only."

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, one copy of proposals that are not selected for funding will be retained in DSO files for one year after the signing of the last instrument resulting from this BAA.

VI. AWARD ADMINISTRATION INFORMATION

A. Award Notices

Proposals will be evaluated against the criteria set forth in this solicitation. Upon completion of the proposal evaluation, 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 facsimile and/or post mail to the Technical POC identified on the proposal coversheet.

Multiple awards are anticipated. The Government reserves the right to fund all, some or none of the proposals under this solicitation, including those that do not strictly adhere to the division of technical and cost sections. Additionally, the Government reserves the right to fund the entire proposal, or selected portions thereof. Proposals identified for funding may result in a procurement contract, grant, cooperative agreement, or an other transaction for research, depending upon the nature of the work proposed, the required degree of interaction between parties, and other factors. Proposers may elect to have their proposal withdrawn from consideration at any time during the evaluation process. If a formal request is not made, DARPA will assume that continued evaluation is desired.

B. Administrative and National Policy Requirements

1. Security

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.

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

Proposals may contain classified information or data (up to the level of Top Secret/SCI). HOWEVER, DO NOT SEND CLASSIFIED FULL PROPOSALS BY EMAIL OR VIA ONLINE SUBMISSION SYSTEMS.

Proposers that intend to include classified information or data in their proposals should contact DARPA security at (571) 218-4842 (or alternatively, the point-of-contact for this BAA) for guidance and direction in advance of proposal preparation. Proposers must have existing approved capabilities (personnel and facilities) to perform research and development at the classification level they propose.

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, if a determination is made that the award instrument may result in access to classified information, a DD Form 254 will be issued and attached as part of the award. 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.

For instructions on submitting Classified Full Proposals, contact Security & Intelligence Directorate (SID) Classification Management at (571) 218-4842.

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 addressed to:

Defense Advanced Research Projects Agency
ATTN: DSO
Reference: DARPA-BAA-08-50
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) 703-526-4052 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 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.

2. Intellectual Property

Please refer to Section IV.B.3 "Full Proposal Format," specifically the "Other Required Information" section (Section III).

3. Meeting and Travel Requirements

There will be program kickoff, midterm, and final meetings and all key participants are required to attend. Performers should also anticipate periodic site visits at the Program Manager's discretion.

4. Human Use

All research involving human subjects, to include use of human biological specimens and human data, selected for funding must comply with the federal regulations for human subject protection. Further, research involving human subjects that is conducted or supported by the DoD must comply with 32 CFR 219, *Protection of Human Subjects* (<http://www.dtic.mil/biosys/downloads/32cfr219.pdf>), and DoD Directive 3216.02, *Protection of*

Human Subjects and Adherence to Ethical Standards in DoD-Supported Research
(<http://www.dtic.mil/whs/directives/corres/html2/d32162x.htm>).

Institutions awarded funding for research involving human subjects must provide documentation of a current Assurance of Compliance with Federal regulations for human subject protection, for example a Department of Health and Human Services, Office of Human Research Protection Federal Wide Assurance (<http://www.hhs.gov/ohrp>). All institutions engaged in human subject research, to include subcontractors, must also have a valid Assurance. In addition, personnel involved in human subjects research must provide documentation of completing appropriate training for the protection of human subjects.

For all proposed research that will involve human subjects in the first year or phase of the project, the institution must provide evidence of or a plan for review by an Institutional Review Board (IRB) upon final proposal submission to DARPA. The IRB conducting the review must be the IRB identified on the institution's Assurance. The protocol, separate from the proposal, must include a detailed description of the research plan, study population, risks and benefits of study participation, recruitment and consent process, data collection, and data analysis. Consult the designated IRB for guidance on writing the protocol. The informed consent document must comply with federal regulations (32 CFR 219.116). A valid Assurance along with evidence of appropriate training all investigators should all accompany the protocol for review by the IRB.

In addition to a local IRB approval, a headquarters-level human subjects regulatory review and approval is required for all research conducted or supported by the DoD. The Army, Navy, or Air Force office responsible for managing the award can provide guidance and information about their component's headquarters-level review process. Note that confirmation of a current Assurance and appropriate human subjects protection training is required before headquarters-level approval can be issued.

The amount of time required to complete the IRB review/approval process may vary depending on the complexity of the research and/or the level of risk to study participants. Ample time should be allotted to complete the approval process. The IRB approval process can last between one to three months, followed by a DoD review that could last between three to six months. No DoD/DARPA funding can be used towards human subjects research until ALL approvals are granted.

5. Animal Use

Any performer conducting 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); (ii) the guidelines described in National Institutes of Health Publication No. 86-23, "Guide for the Care and Use of Laboratory Animals"; and (iii) DoD Directive 3216.01, "Use of Laboratory Animals in DoD Program."

For submissions containing animal use, proposals should briefly describe plans for Institutional Animal Care and Use Committee (IACUC) review and approval. Animal studies in the program

will be expected to comply with the PHS Policy on Humane Care and Use of Laboratory Animals, available at <http://grants.nih.gov/grants/olaw/olaw.htm>.

All selected performers must receive approval by a DoD certified veterinarian, in addition to an IACUC approval. No animal studies may be conducted using DoD/DARPA funding until the USAMRMC Animal Care and Use Review Office (ACURO) or other appropriate DoD veterinary office(s) grants approval. As a part of this secondary review process, the selected performer will be required to complete and submit an ACURO Animal Use Appendix, which may be found at <https://mrmc.amedd.army.mil/AnimalAppendix.asp>.

6. Publication Approval

Proposers are advised if they propose grants or cooperative agreements, DARPA may elect to select other award instruments. DARPA will make this election 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. In such cases, DARPA review is required before publishing any information or results of the program. This requirement includes a provisional statement in the contract outlining the process for receiving DARPA's Public Release office approval before publishing:

When submitting material for written approval for open publication as described in subparagraph (a) above, the contractor/awardee must submit a request for public release 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, proposal abstract, article, or paper); 2) Event Information: event type (conference, principal 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/awardee'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 or via post to 3701 North Fairfax Drive, Arlington VA 22203-1714; telephone: (571) 218-4235. Refer to www.darpa.mil/tio for information about DARPA's public release process.

7. 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.

8. 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.

C. Reporting

The number and types of reports will be specified in the award document, but will include as a minimum *monthly* 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.

D. 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>.

E. Representations and Certifications

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

F. 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.

VII. AGENCY CONTACTS

Points of Contact:

The Technical POC for this effort is Dr. Mitchell R. Zakin.

E-mail: Mitchell.Zakin@darpa.mil

DARPA/DSO

ATTN: DARPA-BAA-08-50

3701 North Fairfax Drive

Arlington, VA 22203-1714

Phone: (571) 218-4565

Email: BAA08-50@darpa.mil