



BROAD AGENCY ANNOUNCEMENT (BAA)
COUNTER IMPROVISED EXPLOSIVE DEVICE
(IED) BASIC RESEARCH

INTRODUCTION:

This publication constitutes a Broad Agency Announcement (BAA) as contemplated in the Department of Defense Grants and Agreements Regulations (DoDGARS) 22.315(a). A formal Request for Proposals (RFP), solicitation, and/or additional information regarding this announcement will not be issued.

The Office of Naval Research (ONR) will not issue paper copies of this announcement. The ONR reserves the right to select for award all, some, or none of the proposals received under this BAA. ONR provides no funding for direct reimbursement of proposal development costs. Technical and cost proposals (or any other material) submitted in response to this BAA will not be returned. It is the policy of ONR to treat all proposals as sensitive competitive information and to disclose their contents only for the purposes of evaluation.

Awards will be in the form of grants. Proposals submitted as a result of this announcement thus may fall under the purview of the Department of Defense Grant and Agreement Regulations (DODGARS).

I. GENERAL INFORMATION

1. Agency Name -

Office of Naval Research,
Contract and Grant Awards Division

2. Research Opportunity Title -

Counter Improvised Explosive Device (IED) Basic Research

3. Program Name -

N/A

4. Research Opportunity Number -

ONR BAA 07-039

5. Response Date -

White Papers Due: 20 JUL 2007
Full Proposals Due: 31 AUG 2007

6. Research Opportunity Description -

The Office of Naval Research seeks white papers and full proposals describing innovative scientific concepts that will form the foundation for future technologies that may be developed and implemented to efficiently and effectively address improvised explosive threats. This BAA is part of a basic research program, and as such the knowledge and technologies developed here may lead to future applied research; *however, research under this program is limited to fundamentally new theories, data, concepts and principles.* Proposals should emphasize fundamental scientific concepts that can be applied to the detection, neutralization, and mitigation of the effects of explosive devices and to the prediction of the occurrence or potential for explosive events. Specific examples of interest include stationary devices (exposed, buried, or concealed); mobile devices such as car or truck bombs; and explosive devices that may be carried by humans, animals, or other normally innocuous transportation methods. Both fully assembled devices and components (in storage or assembly stages) are of concern. This basic research program is also focused on improving the fundamental knowledge of insurgent and terrorist networks and their exploitable or predictable characteristics.

The Prediction project area includes theoretical and technical approaches to: (1) permit the prediction of emplacements; (2) identify and localize bomb makers, storage nodes, safe zones, and caches; (3) identify or predict changing or emerging threat tactics; and (4) track

the components, practices and procedures used in fabrication and assembly. The approaches could include processes to collect relevant data, processes to automatically sift the collected data, or a combination of the two. Relevant information could include recognition of emplacement patterns, relevant human activity, and critical social networks. Sensors could include video or other imaging devices, communications, and human intelligence. These prediction models should also have the capability to be used as forensic assessment tools using post event data.

The Detection project area includes two parts. The first part involves concepts for the detection of the emplacement of explosives and the activities involved in the emplacement of explosives. Research for the detection of emplacement activities could include research into new sensors (RF, EO/IR, signal, communications, etc) along with automated processing, advanced sensor network concepts, and methods for automating the sensor network operation for the purpose of discerning activities. Fundamental research in the fusion of disparate sensor data is also desired, including automated analysis of and notification for events in sensor imagery. Research in this area should emphasize the robust detection of emplacement activities in an automated process that has minimal operator requirements and low false alarm rates.

The second part of the Detection project area includes concepts for the detection of explosive devices that permit stand-off detection and localization of explosives, as well as facilities involved in the manufacture, assembly, or storage of devices; of special interest are methods for identifying concealed bulk storage facilities for completed devices or related components. Methods could run the gamut from detecting explosive materials (including residues), casing or container materials, changes in the environment in which the device is located, or detection of related components. A particular goal is the development of scientific concepts that would permit the identification of a unique quantifiable characteristic of an explosive device that could lead to high probability, rapid, stand-off detection and localization with a low false alarm rate. Moreover, new methods for quantifying fundamental characteristics (electro-magnetic, acoustic, thermal, etc) of operational environments (urban, suburban, countryside, deserts, mountains, forests, etc), especially methods that standardize measurements, data collection, and analysis, are desired.

The Neutralization project area includes research aimed at developing a robust understanding of the fundamental principles and characteristics of devices and the surrounding environment that could be exploited by potential neutralization methods. Additionally, this topic includes research to develop an understanding of supporting technologies to enable these neutralization methods to be effective. It also includes scientific concepts that may be applied to quickly and remotely destroy explosive devices without necessarily having to first detect them, and remote/stand-off detonation techniques.

An area of interest that spans three project areas-- Prediction, Detection and Neutralization-- is the early identification and neutralization of human initiators and observers involved with IED events. The human-in-the-loop fulfills a key role in the initiation of IEDs, and observers perform secondary roles that include assessment of damage and recording of

imagery for propaganda exploitation and recruitment efforts. Technologies examining the unique social, behavioral, physiological, or other discriminating attributes of initiators and observers of IED events, associated cueing to identify such individuals, and detection of employed sensors or recorders, are of specific interest.

The Mitigation project area addresses scientific concepts that may be applied to protect people and/or materiel from detonation effects (blast, fragmentation, and thermal). Topics could include: (1) developing a more detailed understanding of the coupled effects of the blast wave, thermal effects, resulting fragmentation and other physical forces that may result following the initial event (vehicle roll-over, automotive crash, etc); (2) gaining an increased understanding of the injury mechanisms associated with kinetic events on vulnerable body parts; (3) reducing energy generation at the point of detonation or reducing energy propagation; and (4) mitigating detonation effects using more advanced armor materials and design methodologies including deformable/energy absorbing structures and reduced weight materials.

7. Submission of Questions

Any questions regarding this solicitation must be provided to the Science and Technology Point of Contact and/or Business Point of Contact listed in this solicitation. Questions must be submitted by 3p.m. Eastern Time on 13 July 2007. Questions submitted after this date and time may not be answered and the due date for submission of proposals will not be extended.

8. Point(s) of Contact -

Questions of a technical nature shall be directed to the cognizant Technical Points of Contact, as specified below:

Science and Technology Point of Contact:

Point of Contact Name: CAPT Mark Stoffel

Point of Contact Occupation Title: Counter IED Program Officer

Department Title: Expeditionary Maneuver Warfare & Combating Terrorism S&T
Department

Department Code: ONR 30

Address: Office of Naval Research
One Liberty Center, OLC 1163
875 N. Randolph St., Suite 1425
Arlington, VA 22203-1995

E-mail address: stoffem@onr.navy.mil

Questions of a business nature shall be directed to the cognizant Contract Specialist, as specified below:

Business Point of Contact:

Point of Contact Name: Susan M. Sutherland
Point of Contact Occupation Title: Branch Head
Division Title: Contract & Grant Awards, Management
Division Code: Code ONR 0253
Address: Office of Naval Research
One Liberty Center, OLC 1263A
875 N. Randolph St., Suite 1425
Arlington, VA 22203-1995
Email Address: Susan_Sutherland@onr.navy.mil

N.B.: the technical and contractual points of contact ARE NOT the delivery point for white papers or full proposals.

9. Instrument Type(s) -

It is anticipated that all awards to non-governmental participants resulting from this announcement will be grants.

10. Other Information –

Catalog of Federal Domestic Assistance (CFDA) Numbers -

12.300 Basic and Applied Scientific Research-ONR

Catalog of Federal Domestic Assistance (CFDA) Titles -

CFDA Title: Basic and Applied Scientific Research - ONR

11. Additional Information

N/A

II. AWARD INFORMATION

Total amount of funding available: ~ \$37M spread over FY08, 09 and 10.

Anticipated average Award: \$250k (annual) more or less

Number of grants awarded on annual basis: 10 more or less

Anticipated Award Types: Awards will be made in the form of Grants.

Anticipated Period of Performance of awards: Up to 36 months

Start Date: 1 Oct. 2007

Funding Type: Budget Activity 1 (Basic Research)

III. ELIGIBILITY INFORMATION

ONR encourages the teaming of academia, industry, University Affiliated Research Centers (UARCs), Navy Warfare Centers, U.S. government laboratories, and where possible, international (i.e., non-US) institutions with a view toward rapidly demonstrating the scientific feasibility of new concepts currently at low technology readiness levels. Since the research sought is basic research, proposals from foreign offerors are also encouraged.

All responsible sources may submit a proposal, which shall be considered by the Agency. Historically Black Colleges and Universities (HBCU) and Minority Institutions (MI) are encouraged to submit proposals and join others in submitting proposals; however, no portion of this BAA will be set aside for HBCU and MI participation due to the impracticality of reserving discrete or severable areas of this technology for exclusive competition among these entities.

ONR highly encourages developing multidisciplinary research teams with a view towards facilitating comprehensive scientific understandings of the scientific issues associated with a particular project area (i.e., Prediction, Detection, Neutralization, or Mitigation) or across project areas.

IV. APPLICATION AND SUBMISSION INFORMATION

1. Application and Submission Process -

White Papers are required prior to submitting a Full Proposal - The due date for White Papers is no later than 4 p.m. (Eastern Time) on 20 July 2007. Initial Navy evaluations of the White Papers will be issued via E-mail notification on or about 10 August 2007. Detailed technical and cost proposals will be subsequently encouraged from those offerors whose proposed technologies have been identified through the above-referenced E-mail as being of "particular value" to the Navy. However, any such encouragement does not assure a subsequent award. Full Proposals will not be considered under this BAA unless a white paper was received before the white paper due date specified above. A full proposal may also be submitted by an offeror whose white paper was not rated as being of "particular value" to the Navy.

Full Proposals - The due date for receipt of Full Proposals is 4 p.m. (Eastern Time) on 31 August 2007. It is anticipated that final selections will be made by 21 September 2007. Proposals received after the published due date may be considered for funding at a later time, if funding is available. As soon as the final proposal evaluation process is completed, the Offeror will be notified via email of its selection or non-selection for an award. Proposals exceeding the page limit may not be evaluated.

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

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

White Paper Format

- Paper Size – 8.5 x 11 inch paper
- Margins – 1” inch
- Spacing – single or double-spaced
- Font – Times New Roman, 12 point
- Number of Pages – No more than six (6) single-sided pages (excluding cover page and resumes). White Papers exceeding the page limit may not be evaluated.
- Copies – one (1) electronic copy in Microsoft® Word or PDF format submitted via E-mail.

Full Proposal Format – Volume 1 - Technical

- Paper Size – 8.5 x 11 inch paper
- Margins – 1” inch
- Spacing – single or double-spaced
- Font – Times New Roman, 12 point
- Number of Pages – Volume 1 is limited to no more than twenty (20) pages. The cover page, table of contents, and resumes are excluded from the page limitations. Full Proposals exceeding the page limit may not be evaluated. Volume 2 has no page limitations.
- Copies – one (1) original, 4 copies and one electronic copy on a 3.5” Diskette or CD-ROM, (in Microsoft® Word or Excel 97 compatible or .PDF format).

White Paper Content

- Cover Page – The Cover Page shall be labeled “PROPOSAL WHITE PAPER” and shall include the BAA number, proposed title, relevant Thrust Area within this BAA, Offeror’s administrative and technical points of contact (telephone numbers, facsimile numbers, and Internet addresses) and shall be signed by an authorized officer.
- Technical Concept – A three (3) page technical section which clearly describes the scientific concept and associated technologies of the proposed effort, development objectives of the proposed efforts, a clear statement of the major scientific issues to be resolved, the technical approach proposed to resolve these issues, and a description of and schedule for demonstration of the significant aspects of the concept. Applicable references should be clearly cited.

- **Managerial Section** - A one (1) page managerial section that includes partnering arrangements, if any, list of key personnel, specific prior experience of the offeror in the scientific areas addressed, facilities, and a plan of action and milestones.
- **Resumes** – A one (1) page (each) summary resume (including previous relevant experience and pertinent publications) for the Key Person (KP) and Principal Technical Investigator (PI).
- **Cost** - A one-page summary of costs segregated by major tasks and year.

Full Proposal Content

Volume 1: Technical Proposal (20 pages)

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

- **Cover Page:** This should include the words “Technical Proposal” and the following:
 - 1) BAA number
 - 2) Title of Proposal
 - 3) Identity of prime Offeror and complete list of subcontractors, if applicable
 - 4) Technical contact (name, address, phone/fax, electronic mail address)
 - 5) Administrative/business contact (name, address, phone/fax, electronic mail address)
 - 6) Duration of effort
 - 7) Relevant Project Area within this BAA (detection, mitigation, neutralization and prevention)
- **Table of Contents:**
- **Abstract:**
 - a. Concise (approximately 200 words) abstract of the proposed effort.
 - b. Discussion of how the proposed research effort will respond to the objectives of ONR.
- **Statement of Work:** A Statement of Work (SOW) clearly detailing the scope and objectives of the effort and a description of potential Naval Relevance and contributions of the effort to the agency’s specific mission. Include a detailed listing of the technical tasks/subtasks organized by year. Appropriate references to scientific literature should be cited for each proposed task. Include rationale for requested support of any facilities, equipment, or materials.
- **Technical Approach** - The offeror shall provide a detailed plan that coherently describes the technical approach proposed for grant performance which

demonstrates a technical understanding of the proposed Statement of Work (SOW). The technical approach should address each of the numbered task areas delineated in the SOW providing specific or unique techniques to be employed and anything else the offeror considers relevant in performing the SOW. The technical approach should indicate how the work will be performed, including the capabilities and resources which will be applied, what problem areas exist, the proposed solutions and a full explanation of the proposed disciplines, procedures and techniques to be followed. Emphasis should be placed upon the extent that the offeror's technical approach ensures timely delivery and successful completion of the tasks outlined by the SOW submission.

- **Personnel** - The offeror shall provide resumes of proposed key personnel to be utilized by the contractor/subcontractor in the performance of this contract. The offeror shall ensure that the proposed personnel are fully capable of performing in an efficient, reliable and professional manner.
- **Project Schedule and Milestones:** A summary of the schedule of events and milestones.

Volume 2: Cost Proposal

The Cost Proposal shall consist of a cover page and two parts. Part 1 will provide a detailed cost breakdown of all costs by cost category by calendar or Government fiscal year, and Part 2 will provide a cost breakdown by task/sub-task corresponding to the task numbers in the proposed Statement of Work. Options must be separately priced.

Cover Page: The words "Cost Proposal" should appear on the cover page in addition to the following information:

- BAA number
- Title of Proposal
- Identity of prime Offeror and complete list of subcontractors, if applicable
- Technical contact (name, address, phone/fax, electronic mail address)
- Administrative/business contact (name, address, phone/fax, electronic mail address) and
- Duration of effort (separately identify basic effort and any proposed options)
- Summary Statement of Costs
- Cognizant DCAA and DCMA point of contact, address, phone/fax and e-mail address (if readily available)

Part 1: Detailed breakdown of all costs by cost category by calendar or Government fiscal year. If options are contemplated, options must be separately identified and priced.

- Direct Labor – Individual labor category or person, with associated labor hours and unburdened direct labor rates

- Indirect Costs – Fringe Benefits, Overhead, G&A, COM, etc. (Must show base amount and rate)
- Travel – Number of trips, destination, duration, etc.
- Subcontract – A cost proposal as detailed as the Offeror’s cost proposal will be required to be submitted by the subcontractor. The subcontractor’s cost proposal can be provided in a sealed envelope with the Offeror’s cost proposal or will be obtained from the subcontractor prior to award
- Consultant – Provide consultant agreement or other document which verifies the proposed loaded daily/hourly rate
- Materials should be specifically itemized with costs or estimated costs. An explanation of any estimating factors, including their derivation and application, shall be provided. Include a brief description of the Offeror's procurement method to be used (Competition, engineering estimate, market survey, etc.)
- Other Directs Costs, particularly any proposed items of equipment or facilities. Equipment and facilities generally must be furnished by the contractor/recipient. (Justifications must be provided when Government funding for such items is sought). Include a brief description of the Offeror's procurement method to be used (Competition, engineering estimate, market survey, etc.)

Note: Costs proposed for Government Entities and/or FFRDCs should be included in the cost proposal but should not be subject to any indirect rates since they will be separately funded.

Part 2: Cost breakdown by task/sub-task using the same task numbers in the Statement of Work. When options are contemplated, options must be separately identified and priced by task/sub-task corresponding to the same task numbers in the Statement of Work.

3. Significant Dates and Times-

Anticipated Schedule of Events *		
Event	Date	Time (ET)
White Paper Due Date	20 July 2007	4 P.M.
Notification of Initial Evaluations of White Papers	10 August 2007	
Full Proposal Due Date	31 August 2007	4 P.M.
Proposal Evaluations Complete	21 September 2007	
Estimated Award Date	Prior to 31 Oct 2007	

***These dates are estimates as of the date of this announcement.**

4. Submission of Late Proposals –

Any proposal, modification, or revision that is received at the designated Government office after the exact time specified for receipt of proposals is “late” and will not be considered.

Any proposal submitted through ‘Grants.gov’ where the time and date for submission is after the deadline for the proposal submission, will be late and will not be evaluated unless the ‘Grant.gov’ website was not operational on the due date and was unable to receive the proposal submission. If this occurs, the time specified for the receipt of the proposals

through Grants.gov will be extended to the same time of day specified in this BAA on the first workday on which the 'Grants.gov' website is operational.

5. Submission of Grant Proposals to Grants.gov

Grant proposals may be submitted through Grants.gov or by hard copy. Regardless of whether Grants.gov is used or "hardcopy" submission, the offeror must use the Grants.gov forms from the application package template associated with the BAA on the Grants.gov website. To be considered for award, applicants must include the ONR Department Code in Block 4 entitled 'Federal Identifier' of the Standard Form (SF) 424 R&R. **Please be sure to enter the Department Code that best relates to your proposal in Block 4 (Federal Identifier) of the SF 424 R&R to ensure that it is properly routed to the correct Program Office. Only one Department Code may be selected.** Please choose at the sub-Department level wherever possible (i.e., for parent ONR Code 30, you should select at the 301, 302 or 303 level if possible). A list of the Department Codes can be found at <http://www.onr.navy.mil/> on the right side of the screen. For those Applicants who fail to provide a Department Code identifier will receive notification that their proposal submission has been rejected.

However, it should be noted that "white papers" should not be submitted through Grants.gov Apply process; the only acceptable media will be hard copy. White papers may be submitted in hard copy (either electronically or paper) directly to the cognizant ONR Science and Technology Department. White paper submissions may be mailed, faxed, or emailed directly to the appropriate ONR Program Officer/Program Manager.

For electronic submission, there are several one-time actions that must be completed in order to submit an application through Grants.gov (e.g., obtain a Dun and Bradstreet Data Universal Numbering System (DUNS) number, register with the Central Contract Registry (CCR), register with the credential provider, and register with Grants.gov). See www.grants.gov, specifically www.grants.gov/GetStarted.

Use the Grants.gov Organization Registration Checklist at <http://www.grants.gov/assets/OrganizationRegCheck..doc> http://www.grants.gov/applicants/register_your_organization.jsp which will provide guidance through the process. Designating an E-Business Point of Contact (EBiz POC) and obtaining a special password called 'MPIN' are important steps in the CCR registration process. Applicants who are not registered with CCR and Grants.gov, should allow at least 21 days to complete these requirements. It is suggested that the process be started as soon as possible. Additionally, in order to download the application package, applicants will need to install PureEdgeViewer. This small, free program will allow applicants to access, complete and submit applications electronically and securely. For a free version of the software, visit the following website: www.grants.gov/DownloadViewer. If any questions that may arise relating to the registration process, system requirements, how an application

form works, or the submittal process must be directed to Grants.gov at 1-800-518-4726 or support@grants.gov.

Detailed instructions entitled, “Grants.Gov Electronic Application and Submission Information”, on how to submit a Grant proposal through Grants.gov may be found at the ONR website listed under the ‘Acquisition Department – Contracts & Grants Submitting a Proposal’ link at: http://www.onr.navy.mil/02/how_to.asp

6. Address for the Submission of White Papers and Full Proposals for Grants

A. Address for the Submission of White Papers (electronic copy)

White papers should be submitted as a PDF file or Microsoft Word Document as an email attachment and sent to: Laura_Worcester@onr.navy.mil.

B. Address for the Submission of Full Proposals

Full proposal packages if not submitted directly through grants.gov, should be mailed to:

Office of Naval Research
One Liberty Center
875 North Randolph Street, Suite 1425
Attn: Ms. Laura Worcester, ONR-30
OLC 1163
Arlington, VA 22203-1995

Telephone Number: 703-696-9539

NOTE: FULL PROPOSALS SENT BY FAX OR E-MAIL WILL NOT BE CONSIDERED.

V. EVALUATION INFORMATION

1. Evaluation Criteria –

In accordance with DoDGARs Part 22, proposals submitted under this BAA shall be selected for award on a competitive basis upon being evaluated through a peer or scientific review process. Evaluations will be conducted using the following evaluation criteria:

- 1) Overall scientific and technical merits of the proposal:
- 2) Potential Naval relevance and contributions of the effort to the agency’s specific mission;

- 3) The offeror's capabilities, related experience, facilities, techniques or unique combinations of these which are integral factors for achieving the proposal objectives;
- 4) The qualifications, capabilities and experience of the proposed Principal Investigator (PI), team leader and key personnel who are critical in achieving the proposal objects; and
- 5) The realism of the proposed costs and availability of funds.

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

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

2. Evaluation Panel -

Government technical experts from the Office of Naval Research and possibly other Federal entities will perform the evaluation of proposals. The Government may use selected non-government personnel or support contractor personnel to assist in the evaluation and administrative functions of any White Papers and proposals ensuing from this solicitation. Such non-government personnel will be bound by appropriate non-disclosure agreements to protect proprietary and source-selection information.

VI. AWARD ADMINISTRATION INFORMATION

1. Administrative Requirements –

CCR - Successful Offerors not already registered in the Central Contractor Registry (CCR) will be required to register in CCR prior to award of any grant, contract, cooperative agreement, or other transaction agreement. Information on CCR registration is available at <http://www.onr.navy.mil/02/ccr.htm>.

Certifications – For grant proposals submitted through grants.gov, the following certification applies to each applicant seeking federal funds exceeding \$100,000:

CERTIFICATION REGARDING LOBBYING ACTIVITIES

(1) No Federal appropriated funds have been paid or will be paid by or on behalf of the applicant, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of

Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the Federal contract, grant, loan, or cooperative agreement, the applicant shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

(3) The applicant shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, title 31, U.S.C. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

VII. OTHER INFORMATION

1. Project Meetings & Reviews

Program status reviews may also be held to provide a forum for reviews of the latest results from experiments and any other incremental progress towards the major demonstrations. These meetings will be held at various sites throughout the country. For costing purposes, Offerors should assume that 40% of these meetings will be at or near ONR, Arlington VA and 60% at other contractor or government facilities. Interim meetings are likely, but these will be accomplished via video telephone conferences, telephone conferences, or via web-based collaboration tools.

2. Government Property/Government Furnished Equipment (GFE) and Facilities

Each proposer must provide a very specific description of any equipment/hardware that it needs to acquire to perform the work. This description should indicate whether or not each particular piece of equipment/hardware will be included as part of a deliverable item under the resulting award. Also, this description should identify the component, nomenclature, and configuration of the equipment/hardware that it proposes to purchase for this effort. It is the Government's desire to have the contractors purchase the equipment/hardware for deliverable items under their contract. The purchase on a direct reimbursement basis of special test equipment or other equipment that is not included in a deliverable item will be

evaluated for allowability on a case-by-case basis. Maximum use of Government integration, test, and experiment facilities is encouraged in each of the Offeror's proposals.

Government research facilities and operational military units are available and should be considered as potential government furnished equipment/facilities. These facilities and resources are of high value and some are in constant demand by multiple programs. It is unlikely that all facilities would be used for the basic and applied research. The use of these facilities and resources will be negotiated as the program unfolds. Offerors should explain as part of their proposals which of these facilities they recommend are critical for the projects success.

3. Use of Animals and Human Subjects in Research

If animals are to be utilized in the research effort proposed, the Offeror must complete a DOD Animal Use Protocol with supporting documentation (copies of AAALAC accreditation and/or NIH OLAW Animal Welfare Assurance approval letter, IACUC approval, research literature database searches, and the two most recent USDA inspection reports) prior to award. Similarly, for any proposal for research involving human subjects the Offeror must submit prior to award: documentation of approval from an Institutional Review Board (IRB); IRB-approved informed consent form; IRB-approved research protocol; an executive summary of planned research (one-half to one page in length); proof of completed human research training (e.g., training certificate, institutional verification of training, etc.); an application for a DoD Navy Addendum to the Offeror's DHHS-issued Federalwide Assurance (FWA) or the Offeror's DoD Navy Addendum number. The forms for assurance applications can be found at http://www.onr.navy.mil/sci_tech/34/343/. If the research is determined by the IRB to be greater than minimal risk, the Offeror also must provide the name and contact information for the independent medical monitor. [Note: for research involving human subjects that is greater than minimal risk, administrative procedures to protect human subjects from medical expenses (not otherwise provided or reimbursed) that are the direct result of participation in a research project must be addressed. Documentation describing those procedures may be requested. For additional information on this topic please email 343_contact@onr.navy.mil.] For assistance with submission of animal and human subject research related documentation, contact the ONR Animal/Human Use Administrator at (703) 696-4046.

5. Department of Defense High Performance Computing Program

The DoD High Performance Computing Program (HPCMP) furnishes the DoD S & T and DT & E communities with use-access to very powerful high performance computing systems. Awardees of ONR contracts, grants, and assistance instruments may be eligible to use HPCMP assets in support of their funded activities if ONR Program Officer approval is obtained and if security/screening requirements are favorably completed. Additional information and an application may be found at <http://www.hpcmo.hpc.mil/>.