



**OFFICE OF NAVAL RESEARCH
BROAD AGENCY ANNOUNCEMENT (BAA)
FUEL EFFICIENT AND POWER DENSE
DEMONSTRATOR FOR THE USS ARLEIGH
BURKE (DDG 51) FLIGHT IIA CLASS SHIP**

INTRODUCTION:

This publication constitutes a Broad Agency Announcement (BAA) as contemplated in Federal Acquisition Regulation (FAR) 6.102(d)(2). A formal Request for Proposal (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 in response to this announcement. The ONR reserves the right to fund 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.

I. GENERAL INFORMATION

1. Agency Name -

Office of Naval Research
875 N. Randolph Street,
Arlington, VA 22203-1995

2. Research Opportunity Title –

DDG-51 Fuel Efficient Power Demonstrator

3. Program Name –

Swamp Works

4. Research Opportunity Number –

ONR BAA 07-029

5. Response Date –

See Page 13, Paragraph 3, entitled Significant Dates and Times for anticipated schedule of events. White Papers are due no later than 2:00 p.m. (Eastern Daylight Time) on July 13th, 2007. Notification for submission of full proposals are anticipated for August 13th, 2007, following white paper review and selections. Full proposals are due no later than 2:00 p.m. (Eastern Daylight Time) on September 25th, 2007.

6. Research Opportunity Description –

Under the Office of Naval Research (ONR) Advanced Naval Power Systems program, ONR is investing in technologies that have the potential to positively improve energy storage, power distribution and control, and power conversion efficiency. It is the intent of this BAA to leverage these investments to investigate and demonstrate new technologies capable of reducing fuel consumption, improving power conversion efficiency, and to a lesser extent, increase installed power generation density on the USS ARLEIGH BURKE (DDG 51) Flight IIA Class ships. Fuel is used by installed ship propulsion prime movers and ship electrical generation prime movers. Proposals submitted in response to this BAA should include, but are not limited to, the analysis, development, risk reduction and demonstration of technologies capable of reducing the consumption of fuel, improving power generation conversion efficiency, and to a lesser extent, leading to greater installed power generation density, though the latter need not be a requirement. The components and systems of interest potentially include but are not limited to:

Power Generation

- Gas Turbine Engine/Generator
- Alternate Power Generation Technologies
- Energy Storage to enable efficient and reliable operation
- Energy Recovery Sub-systems/components
- Main propulsion engine derived power generation

Propulsion

- Main propulsion gas turbine

- Energy Recovery Sub-systems/components
- Ship Service derived propulsion

6.2 Background:

U.S. Navy Ships account for 8% of the total Department of Defense (DOD) logistics fuel consumption or about 24,000 barrels per day (BPD) or 8,760,000 barrels per year (BPY). Fuel consumption can be reduced by increasing the efficiency of the propulsion and power generation systems currently employed in Navy ships. The DDG-51 Arleigh Burke Class Destroyer, targeted for this BAA, is the most advanced Naval Destroyer deployed in the world at the present time. The Flight IIA version of this ship is expected to remain in service for another 35 years. DDG-51 Class Ships have seen a continued increase in annual operating hours and are being used in roles not initially foreseen or anticipated. The DDG 51 Flight IIA destroyer is scheduled to receive electric plant modernization upgrades starting in Fiscal Year (FY) 2016. An opportunity has been identified through this BAA to significantly reduce fuel consumption and therefore reduce the cost associated with operating Navy ships.

7. Points of Contact –

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

Science and Technology Points of Contact:

Mr. Lynn Petersen
Office of Naval Research, ONR 331, Room 267
875 N. Randolph Street
Arlington, VA 22203-1995
Telephone Number: (703) 696-1291
Email Address: petersl@onr.navy.mil

Business Point of Contact:

Ms. Brenda Pickett
Contract and Grant Awards Management Division
875 N. Randolph Street
ONR Code 254
Arlington, VA 22203-1995
Telephone Number: (703) 696-2607
Email Address: picketb@onr.navy.mil

8. Instrument Types

It is anticipated that awards will take the form of contracts

9. Catalog of Federal Domestic Assistance (CFDA) Numbers – N/A.

10. Catalog of Federal Domestic Assistance (CFDA) Titles – N/A.

II. AWARD INFORMATION

The Office of Naval Research (ONR) plans to make awards that represent the best value to the Government in accordance with the evaluation criteria. ONR is seeking participants for this program that are capable of investigating and applying advances in S&T by designing, developing, and demonstrating the concepts required to achieve the goals described in this announcement. Offerors have the opportunity to be creative in the selection of the technical and management processes, either commercial or DoD practices, that best suit their approach.

- Total Amount of Funding the Program Office expects to Award through the Announcement:

Awards are anticipated to be between \$1M and \$9M. The total estimated budget for this BAA program is nine (9) million dollars.

- Anticipated Number of Awards:

The Navy reserves the right to select for funding any, all, or none of the responses received.

- Anticipated Award Types:

Awards will take the form of contracts. ONR will not issue grants, cooperative agreements, or other transaction agreements under this BAA.

III. ELIGIBILITY INFORMATION

Foreign owned entities are not eligible to submit white papers or proposals under this BAA, however U.S. subsidiaries are eligible. Performers will require access to DDG51 performance information which is export controlled. Contract awards may not be made in response to proposals that are related to the development of a specific system or hardware procurement (FAR 6.102(d)(2)). Awards to Government laboratories and to Federally Funded Research and Development Centers (FFRDCs) may not be made under this BAA. However, such laboratories and centers may enter into teaming arrangements with proposing prime contractors or provide subcontractor assistance. All other potential offerors are eligible.

Independent organizations and teams are encouraged to submit white papers in any or all areas. However, offerors must be willing to cooperate and exchange software, data and other information in an integrated program with other contractors, as well as with system integrators selected by ONR.

IV. APPLICATION AND SUBMISSION INFORMATION

1. Application and Submission Process –

White Papers – The due date and time for receipt of White Papers is **2:00 p.m. Eastern time on 13 July 2007**. Upon evaluation of the submitted White Papers, submitters will be notified via email on or about Monday, 13 August 2007 regarding ONR’s appraisal of the White Papers. Submission of Full Proposals will be encouraged from submitters of White Papers judged as of “particular value” to the Navy. However, any such encouragement does not assure a subsequent award. Offerors are encouraged to restrict their responses to this BAA to a maximum of two white paper submissions from each corporate entity. Any offeror may submit a Full Proposal even if its White Paper was not identified as being of “particular value.”

Full Proposals – An offeror may not submit a Full Proposal without having submitted a White Paper. It is anticipated that the notifications to submit Full Proposals will be on or around August 13th, 2007. The due date for receipt of Full Proposals is **2:00 p.m. Eastern time, on 25 September 2007**. It is anticipated that any final selections would be made tentatively by 01 November 2007. As soon as the final proposal evaluation process is completed, the offeror will be notified via email or letter 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 white papers/full proposals submitted under this BAA are expected to be unclassified. However, confidential/classified proposals are permitted and should be marked as such. 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 or classified information.

a. White Papers

White Paper Format

Paper Size – 8.5 x 11 inch paper

Margins – 1 inch

Spacing – single spaced

Font – Times New Roman, 12 point

Page Limit – No more than 10 single-sided pages (excluding cover page and resumes).

Any pages beyond the maximum may not be considered in the evaluation.

Copies - one (1) original, two (2) additional hard copies, and one electronic copy on a CD-ROM, (in Microsoft® Word or Excel 97 or 2003 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, offeror's administrative and technical points of contact, with telephone numbers, facsimile numbers, and email addresses, and shall be signed by an authorized officer.
- Two page summary of the technical ideas for the proposed research. Within this section briefly address fleet introduction parameters of the resultant solution by including the following:
 - Description of System Operation
 - Description of Risks and proposed Risk Mitigation
 - Description of Concept of Operation (CONOPS) of the System
 - Description of System Interfaces to the Ship (Summary level, Voltage, Current, Frequency, Data)
 - Description of Existing Ship Impacts to Install and Operate System
 - Expected interface requirements for ship control system (i.e., software changes for Propulsion and/or Electrical)
 - Description of System Interfaces to the Ship-Auxiliary systems needed (Summary Level)
 - Expected Mounting Location of Main Components - include Type of Mount
 - Expected fuel savings, in barrels, based on 100,000 barrel yearly consumption.
- Three page technical rationale describing the S&T opportunity and approach. This should contain specific discussion of concept to the goals and objectives outlined in the summary of technical ideas.
- One page summary of the deliverables associated with the proposed research;
- One page summary of the schedule and milestones for the proposed research, including rough estimates of cost for each year of the effort, total cost, and identify any additional internal or external funding anticipated to support this effort;
- One page listing of key personnel along with the approximate percentage of time to be expended by each person during each contract year;
- Two page concise summary of the qualifications of key personnel

Address for the Submission of White Papers –

Office of Naval Research,
Attn: Lynn Petersen, Code 331
875 N. Randolph Street, Room 267
Arlington, VA 22203-1995
Telephone Number: (703) 696-1291

b. Full Proposals

Full Proposal Format (Volume 1 - Technical and Volume 2 - Cost Proposal)

- Paper Size - 8.5 x 11 inch paper
- Margins - 1" inch
- Spacing - single spaced
- Font - Times New Roman, 12 point
- Number of Pages – Full proposals exceeding the page limit may not be evaluated:
 - Technical Proposal: The total number of pages in Volume 1, ‘Technical Proposal’ should not exceed 40.
 - Cost Proposal: The total number of pages in Volume 2, ‘Cost Proposal’ is unlimited.
- Copies - one (1) original, two (2) additional hard copies and one electronic copy on a CD-ROM, (in Microsoft Word or Excel 97 or 2003 compatible or PDF format).

Full Proposal Content:

Volume 1: Technical Proposal

Each section of the Technical Proposal must start on a new page.

- **Cover Page** (the Cover Page is not included in the Page Limitation)

This must include the words “Technical Proposal” and the following:

- 1) BAA number;
- 2) Title of Proposal;
- 3) Identity of Prime Offerer 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) and;
- 6) Duration of effort (differentiate basic effort and options)

- **Table of Contents** (the Table of Contents is not included in the Page Limitation)

- **Statement of Work**

A Statement of Work (SOW) shall clearly detail the scope and objectives of the effort and the technical approach. It is anticipated that the proposed SOW will be incorporated as an attachment to the resultant award instrument. To this end, such proposals must include a severable self-standing SOW without any proprietary restrictions, which can be attached to the contract award. Include a detailed listing of the technical tasks/subtasks organized by year.

- **Technical Concept**

The Technical Concept shall include thorough description of the proposed technology innovation and relevant technical risk areas. This section should detail the S&T challenges, the plan to address the challenges, and the resultant benefits of performing this effort.

This section should also include a description of the potential Naval relevance and contributions of the proposed effort to the goals of this BAA. This section should include a plan for demonstrating and evaluating the operational effectiveness of the offeror's proposed products or processes. Future incorporation of the proposed work in the fleet should be addressed by including the following:

- **System Level**

- Description of System Operation
- Quantification of Annual Fuel Efficiency improvement and the supporting calculation
- Description of Risks and proposed Risk Mitigation
- Description of CONOPS using the System
- Description of System Interfaces to the Ship (Summary level)
- Description of Existing Ship Impacts to Install and Operate System
- If interfacing with main reduction gear, provide detail.
- Changes to ship's structure
- Changes to ship's arrangement (if applicable)
- Expected interface requirements for ship control system (Propulsion and Electrical)

For each component of the system that will be independently mounted, describe the function(s) of the component in the system including:

- **Salient Characteristics:**
 - Length, Width, Height
 - During Normal Operation Condition
 - During Maintenance Conditions
 - Weight (wet and dry), Center of Gravity
 - RPM

- Materials (exotic materials, hazardous materials, or requirement for special storage or handling)
- Operational Characteristics:
 - Mean Time Between Failure
 - Mean Time To Repair
 - Man-hours to Repair/Operating Hour
 - Mean Logistics Delay Time
 - List of spares
 - Equipment Capacity/Output: Normal and Emergency
 - Efficiency Curve, including at Standby
 - Time to Full Power: From Standby and From Secured
 - Noise: Frequency(ies) and Level (dB)
 - Temperature: Operating Range Internal and External
 - Failure Modes
- System Interface Requirements:
 - Electrical Power: (Input)
 - Voltage, Amperage Frequency, Harmonics
 - Backup Source
 - Electrical Power: (Output)
 - Voltage, Amperage, Frequency, Output Harmonic
 - Backup Source
 - Commercial and Military Standard Applicable
 - Thermal - Cooling Required:
 - Air – Volume, Pressure
 - Fluid – Type, Volume, Pressure
 - Thermal Discharge:
 - Air BTUs, Temperature, Volume, Pressure
 - Fluid – Type, BTUs, Volume, Pressure, Temperature
- Description of System Interfaces to the Ship – Auxiliary system needed (Summary Level)
- Expected Mounting Location of Components – include Type of Mount
- **Fleet Introduction Cost Estimation**

This section shall include cost estimations of technology transition to fleet, logistics, and life cycle costs. The specific estimates that should be address are as follows:

At the component level, each component of the system:

 - Development Cost to TRL6;
 - Estimated Development Cost to TRL9;

- Estimated Unit Procurement Cost – assuming 34 ships for DDG51;
- Estimate of Maintenance and Replacement Cost over the Lifecycle (35 years);
- Estimate of Mean Time Between Overhaul
- Estimate of Cost of Overhaul
- Maintenance Strategy (depot, shore, shipboard repair)
- Estimate Costs of Data Rights for Software;
- Estimated Costs of Logistics, i.e., Documentation, Spare Parts Inventories, Etc.

At the System level:

- Development Cost to TRL6 (from current TRL);
- Estimated Cost to manufacture and test unit capable of full scale demonstration at government testing facility (TRL5 unit testing to TRL6);
- Estimated Development Cost to TRL9 (from TRL6);
- Estimated Unit Procurement Cost – assuming 34 ships for DDG51;
- Estimated Installation Cost of System;
- Estimated Cost of Software Revision;
- Estimate of Maintenance and Replacement Cost over the Lifecycle (35 years);
- Estimate of Mean Time Between Overhaul;
- Estimate of Cost of Overhaul;
- Maintenance Strategy (depot, shore, shipboard repair);
- Estimate Costs of Data Rights for Software;
- Estimated Costs of Logistics, i.e., Documentation, Spare Parts Inventories, etc. To ensure commonality in the calculation of fuel savings a copy of Computations for Fuel Savings, including assumed operating times, speed, and power levels, are also requested.

- **Project Schedule and Milestones**

A summary of the schedule of events and milestones.

- **Assertion of Data Rights and/or Rights in Computer Software:**

For a contract award an offeror may provide with its proposal assertions to restrict use, release or disclosure of data and/or computer software that will be provided in the course of contract performance. The rules governing these assertions are prescribed in Defense Federal Acquisition Regulation Supplement (DFARS) clauses 252.227-7013, -7014 and -7017. These clauses may be accessed at the following web address:

<http://farsite.hill.af.mil/VFDRARA.HTM>

The Government may challenge assertions that are provided in improper format or that do not properly acknowledge earlier federal funding of related research by the offeror.

- **Deliverables**

The offeror must provide a detailed description of the results and products to be delivered inclusive of the timeframe in which they are to be delivered. The SOW should include a summary listing of these deliverables.

- **Personnel Qualifications**

A discussion of previous accomplishments and work in this, or closely related, areas, and the qualifications of the investigators. Key personnel resumes shall be attached to the proposal and will not count toward the page limitations.

- **Management Approach**

Include discussion of the overall approach to the management of this effort, including brief discussions of the total organization; use of personnel; project/function/subcontractor relationships; government research interfaces; and planning, scheduling and control practice. Identify which personnel and subcontractors (if any) will be involved.

- **Facilities**

Include a description of the facilities that are required for the proposed effort with a description of any Government Furnished Equipment, Hardware, Software, or Information required, by version and/or configuration.

- **Past Performance**

Offeror shall provide all relevant past performance for similar or related work under contracts currently being performed or completed during the last three (3) years. The offeror may include Federal, State and Local Government and private sector contracts. Offeror that represent newly formed entities, without prior contract experience, should identify previous contract and subcontract experience for all key personnel identified in the proposal.

The contractor shall provide the following information for each such contract:

1. Contract Number
2. Customer/Agency
3. Contracting Officer and Technical Point of Contact (names and phone numbers)
4. Brief Description of Scope of Work
5. Contract Type
6. Award Price
7. Total Labor-Hours of Effort
8. Period of Performance
9. Contract Deliverables

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/fiscal year, and Part 2 will provide a Cost breakdown by task/sub-task using the same task numbers in the Statement of Work. Options must be separately priced.

Although not required and provided for informational purposes only, detailed instructions, entitled “Instructions for Preparing Cost Proposals for Contracts and Agreements”, including a sample template for preparing costs proposals for contracts may be found at ONR’s website listed under the ‘Acquisition Department – Contracts & Grants Submitting a Proposal’ link at: http://www.onr.navy.mil/02/how_to.asp

Cover Page

The submission of cost or pricing data in accordance with FAR 15.403.4 **is mandatory if the Offerer’s proposed cost exceeds \$550,000.00**. The words “Cost Proposal” should appear on the cover page in addition to the following information:

- 1) BAA number;
- 2) Title of Proposal;
- 3) Identity of prime offeror and complete list of subcontractors/sub-recipients, if applicable;
- 4) Technical contact (name, address, phone/fax, electronic mail address);
- 5) Administrative/business contact (name, address, phone/fax, electronic mail address) and;
- 6) Duration of effort (differentiate base effort and options)
- 7) Summary statement of proposed costs
- 8) Cognizant DCAA and DCMA point of contact, address, phone/fax, electronic mail address (if available)

Part 1: Detailed breakdown of all costs by cost category by calendar/fiscal year. Cost categories include:

- 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);
- Proposed contractor-acquired equipment such as computer hardware for proposed research projects should be specifically itemized with costs or estimated costs. An explanation of any estimating factors, including their derivation and application, shall be provided. Where possible, indicate purchasing method (competition, price comparison, market review, etc.);

- Travel – Number of trips, destinations, duration, etc;
- Subcontract – A cost proposal as detailed as the offeror’s cost proposal will be required to be submitted by the Subcontractor. Prior to award, the Subcontractor’s cost proposal can be provided in a sealed envelope with the offeror’s cost proposal or may be forwarded directly to the cognizant Contract Specialist;
- Consultant – Provide consultant agreement or other document which verifies the proposed loaded daily/hourly rate;
- Materials – Specifically itemized by cost element. An explanation of any estimating factors, including their derivation and application, shall be provided. Where possible, indicate purchasing method (competition, price comparison, market review, 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, price comparison, market review, etc.); and
- Fee/Profit including fee percentage.

Part 2: Cost breakdown by task/sub-task corresponding to the same task numbers (or work breakdown structure) 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 (MM/DD/YEAR) | Time (Eastern Time) |
| White Paper Due Date | 07/13/07 | 2:00 p.m. |
| Notification for Full Proposal | 08/13/07 | |
| Full Proposals Due Date | 09/25/07 | 2:00 p.m. |
| Notification of Selection for Award | Tentatively 11/01/07 | |
| Contract Award | 03/03/08 | |

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

4. Submission of Late Proposals –

In accordance with FAR Subpart 15.208 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 unless it is received before award is made, the contracting officer determines that accepting the late proposal would not unduly delay the acquisition and:

- (a) If it was transmitted through an electronic commerce method authorized by the announcement, it was received at the initial point of entry to the Government infrastructure not later than 2:00 p.m. one working day prior to the date specified for receipt of proposals; or
- (b) There is acceptable evidence to establish that it was received at the Government installation designated for receipt of proposals and was under the Government’s control prior to the time set for receipt of proposals; or
- (c) It was the only proposal received.

However, a late modification of an otherwise timely and successful proposal, that makes its terms more favorable to the Government will be considered and may be accepted.

Acceptable evidence to establish the time or receipt at the Government installation includes the time/date stamp of that installation on the proposal wrapper, other documentary evidence of receipt maintained by the installation, or oral testimony or statements of Government personnel.

If an emergency or unanticipated event interrupts normal Government processes so that proposals cannot be received at the Government office designated for receipt of proposals by the exact time specified in the announcement, and urgent Government requirements preclude amendment of the announcement closing date, the time specified for receipt of proposals will be deemed to be extended to the same time of day specified in the announcement on the first work day on which normal Government processes resume.

The contracting officer must promptly notify any offeror if its proposal, modifications, or revision was received late and must inform the offeror whether its proposal will be considered.

NOTE: Due to changes in security procedures since September 11, 2001, the time required for hard-copy written materials to be received at the Office of Naval Research has increased. Thus it is recommended that any hard-copy proposal be mailed several days before the deadline established in the solicitation so that it will not be received late and thus be ineligible for award consideration.

5. Address for the Submission of Full Proposals –

Office of Naval Research,
Attn: Lynn Petersen, Code 331

875 N. Randolph Street, Room 267
Arlington, VA 22203-1995
Telephone Number: (703) 696-1291

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

V. EVALUATION INFORMATION

1. Evaluation Criteria –

White papers and full proposals will be evaluated using the following criteria. The Primary Tier technical factors are significantly more important than the Secondary Tier technical factors. All factors within a tier are of equal importance to each other. Although Cost is less important than either the Primary or Secondary tier technical factors, its importance will increase with the degree of equality of the proposals in relation to the other factors on which selection is based or when the cost is so significantly high as to diminish the value of the proposal's technical superiority to the Government:

Technical:

Primary Tier

- Overall scientific and technical merits of the proposal.
- Extent that proposed technology is at a TRL of 5 or below at the time of submittal with the ability to achieve TRL 6 at the completion of this program targeted for 2010.
- Return on Investment of proposed solution.

Secondary Tier

- Ease of Implementation of Solution.
- Past performance of offeror, or key personnel if the company is a new entity.
- The offeror's capabilities, related experience, facilities, techniques or unique combinations of these which are integral factors for achieving the proposal objectives.
- The qualifications, capabilities, and experience of the proposed Principal Investigator, team leader, or key personnel who are critical in achieving the proposal objectives.

Cost:

- Cost of proposed work with regard to technical value.
- Realism of the proposed budgetary costs and availability of funds.

For proposed awards to be made as contracts to large businesses, the socio-economic merits of each proposal will be evaluated based on the extent of the offeror's commitment in providing meaningful subcontracting opportunities for small businesses, HUB Zone small businesses, small disadvantaged businesses, woman-owned small businesses,

veteran-owned small businesses, service disabled veteran-owned small businesses, historically black colleges and universities, and minority institutions.

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.

Evaluation of Contract Options – The Government will evaluate options for award purposes by adding the total cost for all options to the total cost for the base requirement. The evaluation of options will not obligate the Government to exercise the options at anytime during contract performance.

2. Evaluation Panel –

Technical and cost proposals submitted under this BAA will be protected from unauthorized disclosure in accordance with FAR 3.104-5 and 15.207. The cognizant program officer and other Government scientific experts will perform the evaluation of technical proposals. Restrictive notices notwithstanding, one or more support contractors may be utilized as subject-matter-expert technical consultants. Similarly, support contractors may be utilized to evaluate cost proposals. However, proposal selection and award decisions are solely the responsibility of Government personnel. Each support contractor's employee having access to technical and cost proposals submitted in response to this BAA will be required to sign a non-disclosure statement prior to receipt of any proposal submissions.

VI. AWARD ADMINISTRATION INFORMATION

1. Administrative Requirements -

- The North American Industry Classification System (NAICS) code - The North American Industry Classification System (NAICS) code for this announcement is 541710 with a small business size standard of 500 employees.
- CCR - Successful offerors not already registered in the Central Contractor Registry (CCR) will be required to register in CCR prior to award of any grant, contract, cooperative agreement, or other transaction agreement. Information on CCR registration is available at <http://www.onr.navy.mil/02/ccr.htm>.
- Certifications - Proposals should be accompanied by completing two separate certification packages: one certification package for Federal Acquisition Regulation (FAR) clauses in accordance with FAR 4.1201, and one certification package for Defense Federal Acquisition Regulation Supplement (DFARS) clauses. FAR certification packages should be completed online

with ORCA at <https://orca.bpn.gov/login.aspx>. Supplemental DFARS and contract specific certification packages should be completed via the ONR website at http://www.onr.navy.mil/02/rep_cert.asp. For contract proposals, the certification package is entitled, "Representations and Certifications for Contracts."

- Subcontracting Plans - Successful contract proposals that exceed \$550,000, submitted by all but small business concerns, must be supported by a Small Business Subcontracting Plan in accordance with FAR 52.219-9, prior to award.
- Models - Model contract documents may be found on the ONR website at http://www.onr.navy.mil/02/model_awards.asp.

2. Reporting -

The following is a sample of deliverables that could be required under a typical research effort:

- Monthly Technical and Financial Progress Reports
- Presentation Material
- Computer model or Spreadsheet source code used for calculations
- Other Documents or Reports
- Final Report

Specific software and hardware deliverables may be proposed by each offeror and finalized during negotiations.

VII. OTHER INFORMATION

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

Each offeror must provide a specific description of any equipment/hardware that it needs to acquire to perform the work. This description should indicate whether or not each particular piece of equipment/hardware will be included as part of a deliverable item under the resulting award. Also, this description should identify the component, nomenclature, and configuration of the equipment/hardware that it proposes to purchase for this effort. It is the Government's 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 this topic. The use of these facilities and resources will be negotiated as the program unfolds. Offerors should explain which of these facilities they recommend using.

2. BAA Questions and Answers

During the solicitation period, potential responders may ask questions pertaining to this BAA. They should be forwarded to the following email addressee:

Ms. Brenda Pickett
Contract and Grant Awards Management Division
875 N. Randolph Street
Arlington, VA 22203-1995
Telephone Number: (703) 696-2607
Email Address: picketb@onr.navy.mil or Brenda.Pickett@onr.navy.mil

Questions concerning the BAA must be received before **July 5th, 2007, 2:00 p.m. Eastern time** in order to receive a response. Questions received after this time will not be answered. All questions received and their respective answers will be posted via an amendment to the BAA so that all potential bidders can benefit from the information posted.

3. Project Meeting and Reviews

Individual program reviews between the ONR sponsor and the performer may be held as necessary.

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; however offerors should assume that a preponderance of the meetings will be at or near ONR, Arlington, VA and the remainder at other contractor or government facilities. Interim meetings are likely, but these will be accomplished via video teleconferences, telephone conferences, or via web-based collaboration tools.

4. Disclosure of Information

Due to the potential sensitivity of the release of unclassified information, regardless of the medium used, all information/data must be approved by the Program Officer before public release of any and all information generated resulting contracts and/or related to this program. DFARS Clause 252.204-7000 entitled "Disclosure of Information" will be incorporated into all contract award documents.