

BROAD AGENCY ANNOUNCEMENT (BAA)

Electronics Technology

INTRODUCTION

This publication constitutes a Broad Agency Announcement (BAA) as contemplated in Federal Acquisition Regulation (FAR) 6.102(d)(2) and Department of Defense Grant and Agreement Regulations (DODGARS) 22.315. A formal Request for Proposals (RFP), solicitation, and/or additional information regarding this announcement will not be issued. Request for same will be disregarded.

The Office of Naval Research (ONR) will not issue paper copies of this announcement. ONR reserves the right to select for award all, some or none of the proposals in response to this announcement. 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.

Awards may take the form of contracts or grants. Therefore, proposals submitted as a result of this announcement may fall under the purview of either the Federal Acquisition Regulations (FAR) or the Department of Defense Grant and Agreement Regulations (DODGARS).

Potential offerors may obtain information on ONR programs and opportunities by checking the ONR website at <http://www.onr.navy.mil>. Specific information about BAAs and amendments and updates to this BAA will be found at that site under the heading "BAAs".

I. GENERAL INFORMATION

1. Agency Name -

Office of Naval Research

2. Research Opportunity Title

Electronics Technology

3. Program Name

Electronics Science and Technology

4. Research Opportunity Number

BAA 07-011

5. Response Date

White Papers: 2 March 2007

Full Proposals: 27 July 2007

6. Research Opportunity Description

Synopsis:

The goal of the electronics program is to develop and transition affordable, high performance Radio Frequency (RF) electronics that will provide a decisive edge to the warfighter. The program encompasses RF research, design, modeling, fabrication, and testing of devices, integrated circuits, and multi-chip assemblies that span digital, analog, microwave and millimeter wave technologies. Toward that end the Electronics Science and Technology Program invests in science and technology initiatives that will provide the present Navy, the Next Navy, and Navy After Next with electronics technology to meet these needs.

The ONR Electronics Science and Technology Program is divided into two parts - Discovery and Invention (D&I) and Exploitation and Deployment (E&D). The goals of the D&I program are to develop technologies that are applicable to the more far-term needs of the operational forces. Efforts within the E&D Program focus primarily on the Future Naval Capabilities (FNCs) that have been selected by the Navy and Marine Corps leadership. The focus of the E&D Program is technology development to satisfy the more near-to-midterm needs of the operational forces.

The applications areas that provide the strongest pull for the Electronics Program are Electronic Warfare, Surveillance, and Communications Technologies. Within Surveillance the primary thrusts are Apertures and Architectures, Information Extraction and Exploitation, and Asymmetric Threat Detection. Within Electronic Warfare the primary thrusts are Situational Awareness, Threat Detection, and Threat ID, Counter Targeting, Self Protection, and Support Jamming, and Network Centric EW/Mission Support. Within Communications the primary thrusts are Spectral and Energy Efficient Communications, Tactical Communications, and Dynamic Ad-hoc Wireless Networks and Internetworking. The electronics needs of these programs are included in the information provided below.

The Office of Naval Research (ONR 312) seeks white papers for efforts that aim to develop and demonstrate S&T (science and technologies) for the next generation (2008 – 2011) electronic device areas under the following focus areas:

- a. 94 GHz Amplifiers

Within this focus area proposals are sought for the development of 94 GHz power amplifiers that have power-added efficiencies greater than 25%. The primary goal is a 94 GHz unit cell, although MMIC work will be considered. The devices (unit cells) should be capable of operating at >15 Volts and exhibit >3 Watts per mm with a PAE of >25%. The offeror is to specify the range of conditions such as frequencies, waveform types and duty cycles for which the efficiency claims are made.

b. GaN Receive Chain Components.

Within this focus area proposals are sought for the development of GaN components (both analog and digital) that would enable an all GaN RF receive chain. Work on Low Noise Amplifiers (LNAs) is not solicited except to the extent required to demonstrate the impact of the primary development. The goal of this focus area is the development of robust downstream GaN components in order to optimize the return from a robust GaN LNA front end.

ONR is also receptive to *highly innovative* ideas in electronics technology areas (including use of nanoelectronics) that are outside the designated focus areas above but nevertheless relevant and important to the Navy and Marine Corps, such as (but not limited to) the following:

RF Solid State Power Amplifiers

Provides for the development of solid state power amplifier technology for Navy all-weather radar, surveillance, reconnaissance, electronic attack, communications, and asymmetric warfare systems. The technology developed cannot, for the most part, be obtained through Commercial-Off-the-Shelf (COTS) as a result of the simultaneous requirements placed on power, frequency, linearity, bandwidth, weight, and size. Topics of interest include but are not restricted to the development of solid state devices and circuits using Group III-V material technologies to realize high power added efficiency, high-power amplifiers.

RF Supporting Technologies:

Provides for the radiation, reception, signal control and processing of microwave (MW) and millimeter wave (MMW) power for Navy all-weather radar, surveillance, reconnaissance, EA, communications, and asymmetric warfare systems. The technology developed cannot be obtained through COTS as a result of the requirements placed on power, frequency, linearity, bandwidth, weight, and size. Innovative solutions are sought in the areas of robust, linear, high-dynamic-range, low-noise amplifiers; band pass and extreme spur-free dynamic range ADCs; ultra high efficiency power digital-to-analog converters (Power-DACs) where distributed and /or noise shaping techniques may be considered; extremely high speed logic devices; compact isolators; frequency synthesizers; channelizers; circulators; electrically small antennas; and high power filters.

ONR has funded related technology development under numerous programs. Proposals that build on current or previous DoD work are encouraged. If offerors are enhancing work performed under other ONR or DoD projects, they must clearly identify the point of departure

and what existing work will be brought forward and what new work will be performed under this BAA.

This BAA will only address funding opportunities for the FY 08 Electronics D&I Programs.

7. Points of Contact

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

Primary:

Dr. Ingham A. Mack
Program Manager
Electronics, Sensors, and Networks Research Division
Code 312
Office of Naval Research
875 North Randolph Street – Suite 1181
Arlington, VA 22203-1995
Telephone Number: (703) 696-4961
Facsimile Number: (703) 696-2611
E-mail Address: MackI@onr.navy.mil

Secondary:

Dr. Dan Purdy
Program Officer
Electronics, Sensors, and Networks Research Division
Code 312
Office of Naval Research
875 North Randolph Street – Suite 1181
Arlington, VA 22203-1995
E-Mail: purdyd@onr.navy.mil
Telephone: (703) 588-1920
Fax: (703) 696-2611

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

Ms. Carol Brown
Contract Specialist
Contracts, Code BD 0251
Office of Naval Research
One Liberty Place

875 North Randolph Street, Suite W1274
Arlington, VA 22203-1995
E-Mail: brownc@onr.navy.mil
Telephone: (703) 696-0436

8. Instrument Type

It is anticipated that primarily contracts will result from this solicitation. However, ONR will consider awarding grants.

9. Catalog of Federal Domestic Assistance (CFDA) Number

CFDA No.: 12.300

10. Catalog of Federal Domestic Assistance (CFDA) Title

CFDA Title: DoD Basic and Applied Scientific Research

II. AWARD INFORMATION

The Office of Naval Research (ONR) plans to award multiple technology development contracts that represent the best value to the Government in accordance with the evaluation criteria. The Office of Naval Research is seeking participants for this program that are capable of supporting the goals described in this announcement. Offerors have the opportunity to be creative in the selection of the technical and management processes and approaches to address the areas of interest described above.

The period of performance of the awards typically ranges from one to three years (base year and two option years). ONR anticipates a budget of approximately \$1,100,000 for the D&I Program. ONR plans to fund individual awards of \$200,000 to \$500,000 per year using Applied Research (Budget Category 6.2). However, lower and higher cost proposals will be considered. The average funding level of past awards was approximately \$200,000- \$500,000 per year. The period of performance for projects may be from one to three years, with an estimated start date of 1 NOV 2007, subject to date of final award and availability of new fiscal year funds.

ONR may consider proposals from Government Entities, outside of this BAA, that may draw from this budget.

ONR has funded related technology development under numerous programs. Proposals that build on current or previous DoD work are encouraged. If offerors are enhancing work performed under other ONR or DoD projects, they must clearly identify the point of departure and what existing work will be brought forward and what new work will be performed under this BAA.

III. ELIGIBILITY INFORMATION

All responsible sources may submit a white paper, which shall be considered by the Government. Historically Black Colleges and Universities (HBCUs) 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 HBCU and MI participation due to the impracticality of reserving discrete or severable areas of Electronics Technology for exclusive competition among these entities.

Federal Funded Research and Development Centers (FFRDCs) may submit proposals under this BAA, unless otherwise restricted under their agreements with sponsoring agencies.

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

The Application and Submission Process consists of white papers, oral presentations, and full proposals. If an Offeror does not submit a white paper before the due date and time, it is not eligible to participate in the remaining Oral Presentation and Full Proposal submission process. White papers sent by fax or E-Mail will not be considered.

2. Address for the Submission of White Papers and Full Proposals

Ms. Sheila Richardson
Communications and Networking Science and Technology Submission Coordinator
Surveillance, Communications and Electronic Division, Code ONR 312
Office of Naval Research
One Liberty Place
875 North Randolph Street, Suite 1425
Arlington, VA 22203-1995

Telephone: (703) 696-0113
E-Mail: Sheila_Richardson@onr.navy.mil

a. White Papers

Each white paper should state that it is submitted in response to this BAA.

Due Date: The due date for White Papers is no later than 4 P.M. (Eastern Time) on 2 March 2007.

Evaluation/Notification: White papers will be evaluated and will be used to determine if an offeror is to be invited to make an oral presentation to a panel of government evaluators. The process for oral presentations is described below. Oral presentations will be scheduled for those offerors who have been notified by e-mail that their proposed technologies appear to be of “particular value” to the Navy. Selection of white papers considered as being of “particular value” will be announced on or about Friday, 23 March 2007. However, any such encouragement does not assure a subsequent award. Those white papers not selected for oral presentations will not be considered further under this announcement.

b. Oral Presentations

Process: Offerors whose white papers are selected for oral presentations will be invited by e-mail not less than five (5) working days prior to the commencement of the unclassified oral presentation event. This event is planned for the week of 24 April 2007. A detailed format for the presentation will be provided in the e-mail invitation. Each presentation will be no longer than twenty-five (25) minutes in duration. An additional five (5) minutes will be allowed for questions (if any) from the panel of government reviewers.

Notification/Evaluation: Following the oral presentation, offerors will be notified by e-mail regarding the Navy’s response to the oral presentation. Those offerors whose technology is still considered as having “particular value” to the Navy will be requested to submit detailed technical and cost proposals. However, such encouragement after oral presentations does not assure a subsequent award. Full proposals will not be considered under this BAA unless both a white paper was received by the due date specified above and a presentation was made during the Oral Presentation event and under both the proposal appeared to be of “particular value” to the Navy. Evaluation of oral presentations and the subsequent request to submit full proposals will be completed on or about Friday, 27 July 2007.

c. Full Proposals

The due date for receipt of full proposals is 4 p.m. (Eastern Time) on Friday, 27 July 2007. It is anticipated that final selections will be made on or about Friday, 10 August 2007. As soon as the final proposal evaluation process is completed, the offeror will be notified via email of its selection or nonselection for an award. Full proposals exceeding the page limit may not be evaluated.

3. Content and Format of White Papers/Full Proposals

The white papers and full proposals submitted in response to this BAA must 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.

Important Note: Titles given to the white papers/full proposals should be descriptive of the work they cover and not be merely a copy of the title of this solicitation.

a. White Papers

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 14 pages (12 pages for the technical section and 2 pages for the cost section), single-sided pages (excluding cover page and resumes). White papers exceeding the page limit may not be evaluated.
- ♦ Copies – one (1) original, three (3) hard copies, and one electronic copy on CD-ROM (in Microsoft ® Word or Excel 97 compatible or .pdf format)

White Paper Content

The cover page shall be labeled “PROPOSAL WHITE PAPER”, and shall include the BAA number (BAA 07-011), proposed title, offeror’s administrative and technical points of contact, with telephone numbers, facsimile numbers, and internet addresses, and shall be signed by an authorized officer.

The white paper submission should contain two sections, Technical and Cost. The technical section of the white paper should include those items required in the full proposals below, but should not exceed twelve (12) pages and should focus on the proposed technical concept and approach within the areas of interest described above. The cost section shall be no more than two (2) pages. The first page should be a summary of costs segregated by each task. A statement should also be made under each task in which the use of government facilities is proposed. The second page should be a summary of costs segregated by cost category and shall include a table with all costs summarized in thousands (by government fiscal year) of dollars as shown in the following example:

FY08	FY09	FY010	FY11	Total
\$xxxK	\$xxxK	\$xxxK	\$xxxK	\$yyyK

White papers exceeding any of these page restrictions may not be reviewed.

b. Full Proposals

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

- ♦ Paper Size – 8.5 x 11 inch paper

- ♦ Margins – 1 inch
- ♦ Spacing – single or double spaced
- ♦ Font – Times New Roman, 12 point
- ♦ Copies – one (1) original, five (5) hard copies, and one electronic copy on CD-ROM (in Microsoft ® Word or Excel 97 compatible or .pdf format)
- ♦ Number of pages – Volume 1 is limited to no more than 20 pages. Volume 2 has no page limit. The cover page, table of contents, and resumes are excluded from the page limitations.

Full Proposal Content

VOLUME 1: Technical Proposal

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

- ♦ **Cover Page:** (Not included in page limitations). This page must include the words “Technical Proposal” and the following:
 - 1) BAA Number (BAA-07-011)
 - 2) Title of Proposal
 - 3) Identity of Prime Contractor and Complete List of Subcontractors, if applicable.
 - 4) Principal Investigator (PI) Contact (name, address, phone/fax, & e-mail address)
 - 5) Business Point of Contact (name, address, phone/fax, & e-mail address)
 - 6) Duration of Effort (differentiate basic effort and any options)
- ♦ **Table of Contents:** (Not included in page limitations)
- ♦ **Executive Summary:** One (1) page that summarizes the proposed technology and the expected improvements to the Navy.
- ♦ **Concept of Operation for the Navy:** Two (2) pages that provide a summary of the way in which the proposal’s product(s) would support the Navy in an operational context. Include quantifiable metrics to the extent possible of how the results of the proposed work will improve operational performance.
- ♦ **Statement of Work:** A Statement of Work (SOW) clearly detailing 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 made an attachment to the resultant award. Include a detailed listing of the technical tasks/subtasks organized by year. When options are contemplated, the SOW must clearly identify separate optional tasks areas. The SOW should be no more than three (3) pages.
- ♦ **Project Schedule and Milestones:** One (1) page summary of the schedule of events and milestones.

- ♦ **Assertion of Data Rights:** (Not included in page limitations) Include a summary of any proprietary right to pre-existing results, prototypes, or systems supporting and/or necessary for the use of the research, results and/or prototype. Any rights made in other parts of the proposal that would impact the rights in this section must be cross-referenced. If there are proprietary rights, the Offeror must explain how these affect its ability to deliver subsystems and toolkits for integration. Additionally offerors must explain how the program goals are achievable in light of these proprietary and/or restrictive limitations. If there are no claims of proprietary rights in pre-existing data, this section shall consist of a statement to that effect.
- ♦ **Technical Approach and Deliverables:** A detailed description of the approach planned, results targeted, and products to be delivered. The technical approach and deliverables should not exceed seven (7) pages.
- ♦ **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 towards the page limitations. The qualifications should not exceed two (2) pages.
- ♦ **Management Approach:** A 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. Submit resumes/curriculum vitae for the key personnel identified. Include a description of the facilities that are required for the proposed effort with a description of any requested Government Furnished Items (Equipment, Hardware, Software, Information required by version and/or configuration. The management approach should not exceed four (4) pages.
- ♦ **Other Agencies:** Include the name(s) of any other agencies to which the proposal has also been submitted. This information will not be included in the page limitation.

VOLUME 2: Cost Proposal

The cost proposal shall consist of a cover page and two parts described below.

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

- ♦ BAA Number (ONR BAA 07-011)
- ♦ Title of Proposal
- ♦ Identity of Prime Offeror and Complete List of Subcontractors/Sub-Recipients (if applicable)

- Technical Point of Contact (name, address, phone/fax, E-mail address) and Business Point of Contact (name, address, phone/fax, E-Mail address)
- Duration of Effort (differentiate basic and options)
- Summary Statement of Proposed Costs

Part 1: Detailed breakdown of costs by cost category by offeror’s calendar/fiscal year (when options are contemplated, options must be separately identified and priced by calendar/fiscal year)

- Direct Labor – Individual labor categories 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 cost 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, number of people. destinations, durations, etc
- Subcontracts – 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 envelop with the Offeror’s cost proposal or will be requested from the subcontractor at a later date;
- Consultant – Provide consultant agreement or other documentation which verifies the proposed loaded daily/hourly rate;
- Materials – Specifically itemized by cost. 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 Direct Costs; should be itemized with costs or estimated costs. Backup documentation should be submitted to support proposed costs;
- Fee/Profit, including fee percentage, for proposals seeking award of contracts and not grants.

Part 2: Cost breakdown by task/sub-task corresponding to the same task breakdown in the proposed 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.

4. Significant Dates and Times

ANTICIPATED SCHEDULE OF EVENTS		
Event	Date	Time
White Paper Due Date	2 March 2007	1600

Notification of Selection: White Papers *	23 March 2007	COB
Oral Presentations *	25 Apr 2007	TBD
Notification of Oral Presentation Evaluations	25 May 2007	COB
Full Proposal Due Date	27 Jul 2007	1600
Notification of Selection: Full Proposals *	10 Aug 2007	N/A
Contract Awards *	1 Nov 2007	N/A

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

5. Submission of Late White Papers/Proposals

Any submission that is received at the designated Government office after the exact time specified for receipt of white papers or proposals is “late” and will not be considered unless it is received before award is made, the contracting officer determines that accepting the late submission 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 5:00 P.M. one working day prior to the date specified for receipt of white papers or proposals or
- (b) There is acceptable evidence to establish that it was received at the Government installation designed for receipt of white papers or proposals and was under the Government’s control prior to the time set for receipt of white papers or proposals; or
- (c) It was the only white paper or proposal received.

However, a late modification of an otherwise timely and successful white paper or proposal that makes its terms more favorable to the Government will be considered at any time it is received 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 extend 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.

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

6. 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 Department Code 312.**

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 must be submitted in hard copy directly to Department Code 312 at the address identified in Section IV, above.

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

7. Address for the Submission of Hard Copy White Papers and Full Proposals for Contracts and Grants

Hard copies of white papers and of full proposals for contracts and grants (other than those sent electronically through Grants.gov) should be sent to the Office of Naval Research at the following address:

Dr. Ingham A. Mack
Program Manager
Electronics, Sensors, and Networks Research Division
Code 312
Office of Naval Research
875 North Randolph Street – Suite 1181
Arlington, VA 22203-1995
Telephone Number: (703) 696-4961
Facsimile Number: (703) 696-2611
E-mail Address: MackI@onr.navy.mil

V. EVALUATION INFORMATION

1. Evaluation Criteria

The Office of Naval Research plans to make 2-5 awards depending on their value to the Government in accordance with the evaluation criteria listed below. The following evaluation criteria apply to white papers and full proposals:

These submissions will be selected through a technical/scientific/cost decision process with technical and scientific considerations being more important than cost. Even though cost is of less importance than all the technical factors combined, it will not be ignored. The degree of its importance will increase with the degree of equality of the proposals in relation to the other factors on which selection is to be based, or when the cost is so significantly high as to diminish the value of the technical superiority to the Government. Criteria A-D are listed in descending order of priority. Any sub-criteria listed under a particular criterion are of equal importance to each other.

- A. Overall scientific and technical merits of the proposal
 - 1. The degree of innovation
 - 2. The soundness of technical concept
 - 3. The offeror's awareness of the state of the art and understanding of the scope of the problem, technical risk, and the technical effort needed to address the problem.

- B. Naval relevance, transition potential and anticipated contributions of the proposed technology

- C. Offeror's capabilities, related experience, and past performance, including the qualifications, capabilities and experience of the proposed principal personnel
 - 1. The quality of technical personnel proposed
 - 2. The offeror's experience in relevant efforts with similar resources
 - 3. The ability to manage the proposed effort

- D. Management Plan. The Management Plan is required in the white paper but not for the oral presentations. The Full Proposal Management Plan will be evaluated in accordance with the following criteria:
 - 1. Plan is in milestone format with succinct factual description of how achievement of milestones will be managed.
 - 2. Relationship between cost and milestone achievement is defined.
 - 3. Estimate of technical, schedule and cost risk is stated with risk management plan provided.

- E. The realism of the proposed cost
 - 1. Total cost relative to benefit
 - 2. Realism of cost levels for facilities and staffing

Socio-Economic Merits: For proposed awards to be made as contracts to large businesses, the socio-economic merits of each proposal will be evaluated based on the extend of the Offeror's commitment in providing meaningful subcontracting opportunities (to the maximum extent practicable) for small businesses, HubZone 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 between 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 result in enhancements of novel S&T, will be given favorable consideration.

2. Evaluation Panel

Potential Offerors should understand that government technical experts drawn from the Office of Naval Research and other naval and defense activities/agencies will participate in the evaluation of the Full Proposals. The Government may use selected support contractor personnel to assist in providing both technical expertise and administrative support regarding any ensuing proposals from this announcement. However, proposal selection and award decisions are solely the responsibility of Government personnel. Each support contractor's employees 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. These support contractors will be bound by appropriate non-disclosure agreements to protect proprietary and source-selection information.

VI. AWARD ADMINISTRATION INFORMATION

1. Additional Requirements

- ◆ *North American Industry Classification System (NAICS) Code* – The North American Industry Classification System (NAICS) Code for this solicitation 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. Information on CCR registration is available at <http://www.ccr.gov> or by calling 1-888-227-2423.
- ◆ *Certifications* – Proposals should be accompanied by a complete certification package which can be accessed on the ONR Home Page at Contract & Grants. For grants, the certification package is entitled “Certifications for Grants and Agreements.” For contracts, the certification package is entitled “Representations and Certifications for Contracts.” For contracts, in addition to the certification on the ONR Home Page, prospective contractors shall complete the Online Representations and Certifications Application (ORCA), at <http://orca.bpn.gov>.
- ◆ *Subcontracting Plans* – Successful contract proposals that exceed \$500,000, submitted by all but small business concerns, will be required to submit a Small Business Subcontracting Plan in accordance with FAR 52.219-9.

2. Reporting -

The following is a sample of deliverables that could be required under a typical research effort. The following deliverables, primarily in contractor format, are anticipated as necessary.

- ◆ Technical and Financial Reports
- ◆ Presentation Material
- ◆ Other Documentation or Reports
- ◆ Final Report

However note that specific deliverables (that may include 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 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 proposed to be purchased 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 the facilities would be used for any one specific program. The use of facilities and resources will be negotiated as the program unfolds. Offerors should explain which of these facilities they recommend.

2. 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.

3. 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/>.

4. Project Meetings 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. 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.

5. Disclosure of Information

Resulting contracts will include the following provision:

DFARS 252.204-7000 Disclosure of Information

DFARS Clause 252.204-7000 entitled "Disclosure of Information" will be incorporated into all resulting contracts under this BAA. 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 the public release of any and all information generated under resulting contracts and/or related to this program.