



Maritime Laser Demonstration - Technology Incubation and Maturation Program

INTRODUCTION:

This publication constitutes a Broad Agency Announcement (BAA) as contemplated in Federal Acquisition Regulation (FAR) 6.102(d)(2). A formal Request for Proposals (RFP), other solicitation, 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. 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
One Liberty Center
875 North Randolph Street
Arlington, VA 22203-1995

2. Research Opportunity Title

Maritime Laser Demo (MLD) Technology Incubation and Maturation Program

3. Program Name

Maritime Laser Demo (MLD) Technology Incubation and Maturation Program

4. Research Opportunity Number

BAA-09-035

5. Response Date

This announcement will remain open until 31 July 2010. Proposals may be submitted at any time during this period.

6. Research Opportunity Description

A. Solicitation: ONR is soliciting proposals from academia and industry sources capable of providing to the Navy innovative High Energy Laser (HEL) system and subsystem technology (hardware and software), tools, concept designs, engineering and technical studies with the potential for involvement in the demonstrations and testing of a prototype Maritime Laser Demonstrator (MLD) for use as counter-material/lethal effects against small boat threats.

The primary purpose of the MLD Technology Incubation and Maturation BAA is to procure these new analytical tools, enable rapid development of significant enhancements, and/or gain additional critical scientific knowledge related to the demonstration and testing of a prototype “tens of kilowatt” class high-energy laser system in a maritime environment. ONR is interested in receiving white papers and proposals detailing the transition and development of less mature technologies (typically, those seen to be below a Technical Readiness Level or TRL of 6). This Technology Incubation and Maturation Program will not, therefore, fund any activities contained in the existing statements of work for the integration of existing systems into a prototype demonstrator.

For reference, this solicitation is part of the previous discussion contained in the request for information (RFI), Solicitation Number: ONR-08-RFI-0008 released on Aug 04, 2008, which can be found at the uniform resource locator address:

<https://www.fbo.gov/index?s=opportunity&id=4e835c084ceb965e72b97196cf75a4cf>

Vendors who have received a contract under ONR RFP, N00014-09-R-0001 dated December 30, 2008, are ineligible to receive an award under this BAA. The technologies sought under this BAA may be significantly lower in technical maturity and higher in risk than those advertised for in the ONR RFP. For reference, the RFP announcement may be found at the uniform resource locator address:

<https://www.fbo.gov/index?s=opportunity&id=4d36b4e3035003e970afcfa11bcf1b81>

B. BAA support of MLD: The Chief of Naval Research approved the development of a MLD prototype in cooperation with the Naval Sea Systems Command Directed Energy Weapons Program Office (PMS-405) and the Office of the Director for Surface Warfare (OPNAV N86). After the successful demonstration of the prototype, the engineering efforts of the Technology Demonstration (TD) segment will transition to Systems Design and Development (SDD) efforts for additional development, training and testing. Efforts conducted under the MLD Technology Incubation and Maturation Program (in the TD segment) may lead to spiral development upgrades in the SDD effort after the demonstration is completed, or potentially earlier, if the tool set can be incorporated into demonstrator designs.

Offerors must be capable of expressing their relationship, relevance and importance to the testing of a full scale system design. This discussion shall include fabrication, testing, and integration into a Maritime Laser Demonstrator prototype, which is suitable for installation on

major naval combatants. The BAA solicitation from industry will enable the Navy to begin the long term strategy of technology integration and spiral development of a ship-based laser weapon system.

The offeror should demonstrate a basic understanding of the technical difficulties and safety requirements involved in utilizing lasers in a maritime environment, on a naval platform, and in the ship self defense role.

C. Potential Areas of Technology Incubation and Maturation: Within a Navy Maritime Laser Demonstrator, there are potential subsystem adaptations or tool developments that could be made in a variety of areas that would increase/modify a current capability or even reduce the time/cost of prototype testing efforts. Some of the general development areas are:

- a. Advances in laser power and beam quality, including but not limited to:
 - i. Advances in spatial beam combining
 - ii. Advances in spectral beam combining
 - iii. Advances in coherent beam combining
 - iv. Advances in white light laser technology
- b. Protection of optical elements in a marine environment
- c. Advances in predictive tracking (hardware or software)
- d. Autonomous or Semi-Autonomous Predictive Avoidance system
- e. Friendly IFF deconfliction of Blue Air and Ship
- f. Instantaneous power requirements for ships with limited power loading
- g. Automatic irradiance power correction for jamming of Electro-Optics
- h. Advances in imaging systems and adaptive optics
- i. Advances in instantaneous real-time propagation path measurements
- j. Advances in “wall-plug” efficiency
- k. Significant reductions in system complexity, weight, and footprint
- l. Significant contributions to future system acquisition cost
- m. Significant contributions to system reliability and maintainability
- n. Significant contributions to system safety and operability
- o. Other general contributions areas: adaptable laser beam director and stabilizer, laser subsystem, power and cooling subsystem, tracking subsystem, platform stabilization & ship motion compensation, fire control computer interface, integration task, system engineering, system architecture and system integration & testing

The approach offered should maintain the flexibility to investigate the scaling and limitations of concepts, anchor performance codes, and investigate engineering issues that could affect eventual systems development due to technical immaturity. These recommendations, accompanied by corresponding justification, should be included in the full proposals (rather than the white papers). If a technology path is suggested in the BAA response that leads to laser power level greater than 100 kW at modestly increased expense and acceptable risk, then the Navy will require full technical justification as it could pose a significant risk to test personnel safety and projected test costs.

Note: All build or buy decisions in the MLD program are subject to Program Officer and Navy Milestone Acquisition Authority approval.

D. Maritime Laser Demonstration Program Background: The Navy expects to complete the prototype demonstration before the end of Government Fiscal Year (GFY) 2010. The TD segment will consist of several phases: Phase 0 – Prototype Critical Design Review, Phase I – Land Based Prototype Demonstrations, and Phase II – “At Sea” Prototype Demonstrations.

The complete Phase 0 effort is expected to sketch out both a “top level” prototype approach and a “notional” weapons systems/ship system integration approach using only a very small percentage of the available funds. A full proposal submitted in response to this BAA should discuss the proposer’s “best” approach to achieving these objectives.

Phase I continues prototype development, fabrication and integration, with safety and performance testing of a Maritime Laser Demonstration Prototype(s) on land, in a static configuration. The prototype is not intended to be used in an operational manner but will be evaluated on certain performance criteria.

Phase II will take the land-tested Maritime Laser Demonstration Prototype to a maritime environment, and test it against a remotely controlled small boat target in a very controlled set of demonstrations. Specific target information is classified and can be made available on request to those determined to have a need to know and a facility approved to receive and store classified information.

At the successful conclusion of Phase II, the Maritime Laser Demonstration program may transition, at the discretion of NAVSEA PMS-405, from a TD segment to an SDD segment. Note: Technologies which may be matured under this BAA are in no way guaranteed to transition into either the TD or the SDD segment of the effort.

E. MLD Program Approach: ONR has determined that near term benefits to the Navy can accrue from engaging industry in a lead position for MLD prototype development. ONR also recognizes that considerable laser expertise is resident in DoD and National laboratories as well as in universities. Should such expertise be seen by a BAA Offeror as significant, or essential, to the success of the prototype technologies, the Offeror should explain in detail the management approach planned to include the specific talents and skills of the key individual within the proposed technology development. Only US companies and universities are solicited to bid under this BAA that will support MLD and MLD spiral improvements. No foreign teaming shall be allowed under this BAA due to International Traffic in Arms Regulations (ITAR) restrictions. The desired outcomes of this BAA are: to gain insight into industry’s innovations; to assess potential industrial roles external to the integration role that still support the testing and demonstration of a prototype; and to build and test innovative subsystems for MLD Prototype which will allow the Navy to proceed with the long term development of a Maritime Laser Weapons System.

Work funded under a BAA may include basic research, applied research and some advanced technology development (ATD). With regard to any restrictions on the conduct or outcome of

work funded under this BAA, ONR will follow the guidance on and definition of "contracted fundamental research" as provided in the Under Secretary of Defense (Acquisition, Technology and Logistics) Memorandum of 26 June 2008. As defined therein the definition of "contracted fundamental research", in a DoD contractual context, includes [research performed under] grants and contracts that are (a) funded by Research, Development, Test, and Evaluation Budget Activity 1 (Basic Research), whether performed by universities or industry or (b) funded by Budget Activity 2 (Applied Research) and performed on campus at a university or by industry. ATD is funded through Budget Activity 3. In conformance with the USD(AT&L) guidance and National Security Decision Directive 189, ONR will place no restriction on the conduct or reporting of unclassified fundamental research, except as otherwise required by statute, regulation or Executive Order. Normally, fundamental research is awarded under grants with universities and under contracts with industry. ATD is normally awarded under contracts and may require restrictions during the conduct of the research and DoD pre-publication review of research results due to subject matter sensitivity.

As regards to the present BAA, the Research and Development efforts to be funded will consist of applied research and advanced technology development. The funds available to support awards are Budget Activities 2 and 3.

7. Point(s) of Contact

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

Name: Peter A. Morrison
Title: Program Officer for Maritime Laser Demonstrator (MLD) Program
Division Title: Aerospace Sciences and Directed Energy Research Division
Division Code: Code 351
Address: Office of Naval Research
875 N. Randolph St., Suite 1132
Arlington, VA 22203
E-mail Address: peter.a.morrison@navy.mil

Questions of a business nature shall have the Research Opportunity Number (BAA 09-035) in the subject heading and be submitted to:

Casey W. Ross
Contract Specialist
Office of Naval Research BD0253
875 N. Randolph St
Arlington, VA 22203
E-mail: rossc@onr.navy.mil

8. Instrument Types(s)

Awards resulting from this solicitation will be in the form of ID/IQ contracts.

9. Catalog of Federal Domestic Assistance (CFDA) Number -

12.300

10. Catalog of Federal Domestic Assistance (CFDA) Title -

Basic and Applied Scientific Research

11. Other Information -

THIS ANNOUNCEMENT IS NOT FOR THE ACQUISITION OF TECHNICAL, ENGINEERING AND OTHER TYPES OF SUPPORT SERVICES.

II. AWARD INFORMATION

The amount and period of performance of each selected proposal will vary depending on the technical approach to be pursued by the selected offeror that impacts the Maritime Laser Demonstration effort. The BAA contains sufficient programmatic and relevant information to aid potential offerors to decide whether or not to submit a full proposal.

The number of projects awarded and the funding for each shall be made at the discretion of the government. Funds are anticipated to be from Fiscal Year 2009 and 2010 appropriations, but as of the date of this BAA's publication, no certain amount has been allocated to this solicitation.

III. ELIGIBILITY INFORMATION

All responsible sources from academia and industry may submit proposals under this BAA. 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.

Federally Funded Research & Development Centers (FFRDCs), including Department of Energy National Laboratories, are not eligible to receive awards under this BAA. However, teaming arrangements between FFRDCs and eligible principal bidders are allowed so long as they are permitted under the sponsoring agreement between the Government and the specific FFRDC.

Navy laboratories and warfare centers as well as other Department of Defense and civilian agency laboratories are also not eligible to receive awards under this BAA and should not directly submit either white papers or full proposals in response to this BAA. If any such organization is interested in one or more of the programs described herein, the organization should contact an appropriate ONR POC to discuss its area of interest. The various scientific divisions of ONR are identified at <http://www.onr.navy.mil/>. As with FFRDCs, these types of

federal organizations may team with other responsible sources from academia and industry that are submitting proposals under this BAA.

Teams are encouraged to submit proposals in any and all areas. However, offerors must be willing and show a continued willingness to cooperate and exchange software, data and other information in an integrated program teaming relationship with other contractors, as well as with system integrators, as selected by ONR as a result of the **ONR RFP N00014-09-R-0001 dated JAN 09**.

Some topics cover export controlled technologies. Research in these areas is limited to “U.S. persons” as defined in the International Traffic in Arms Regulations (ITAR) - 22 CFR § 120.1 et seq. (See Section VII, Other Information).*

IV. APPLICATION AND SUBMISSION INFORMATION

1. Application and Submission Process

Each full proposal should state that it is submitted in response to this announcement. Detailed technical and cost proposals are encouraged from those offerors whose proposed technologies are believed to have particular value to the Navy. Solicitation submission does not assure a subsequent award. Submission of unsolicited full proposals may provides additional R&D information. Full proposals will not be considered under this BAA unless a white paper was received before the white paper due date specified in Section IV of this BAA.

Full Proposals – Initial selections could be made as early as late summer, 2009. Full proposals received at a later date during the year may be accepted until the date this BAA closes. As soon as the proposal evaluation process is completed, the offeror will be notified via e-mail of its selection or non-selection for an award.

2. Content and Format of Full Proposals

All proposal documentation should address the following program segments: the Technology Demonstration (TD) Segment, which lasts from Quarter (Q) 3 GFY 2008 through to completion of the “At Sea” demonstration (potentially ending in Q4 GFY 2010) and the Systems Design and Development (SDD) Segment which could potentially commence upon successful completion of the TD Phase and continue for an indeterminate period of time. In particular, all documentation should address how the potential SDD program would be enhanced through the specific efforts proposed or how a spiral development upgrade might be planned for and included as a part of the potential follow-on SDD Phase.

Full Proposals submitted under the BAA are expected to be unclassified; however, confidential/classified proposals are permitted. If a classified proposal is submitted, the resultant contract will be unclassified.

Unclassified Proposal Instructions:

Unclassified proposals shall be submitted directly to the Technical Point of Contract (TPOC).

Classified Proposal Instructions:

Classified proposals shall be submitted directly to the attention of ONR's Document Control Unit at the following address and marked in the following manner:

OUTSIDE EVELOPE (no classification marking):

“Office of Naval Research
Attn: Document Control Unit
ONR Code 43
875 North Randolph Street
Arlington, VA 22203-1995”

The inner wrapper of the classified proposal should be addressed to the attention of Peter Morrison, ONR Code 35 and marked in the following manner:

INNER ENVELOPE (stamped with the overall classification of the material)

“Program: Maritime Laser Development/Future Naval Maritime Laser Weapons System Development

Office of Naval Research
Attn: Peter Morrison
ONR Code: 35
875 North Randolph Street
Arlington, VA 22203-1995”

An ‘unclassified’ Statement of Work (SOW) must accompany any classified proposal.

Proposal submissions will be protected from unauthorized disclosure in accordance with FAR Subpart 15.207, applicable law, and DoD/DoN regulations. Offerors are expected to appropriately mark each page of their submission that contains proprietary information. The proposal shall include a separate self-standing Statement of Work, which contains only unclassified information and does not include any proprietary restrictions.

Important Note: Titles given to the full proposals should be descriptive of the work they cover and not be merely a copy of the title of this solicitation. Alternatives to the format and content identified below may be appropriate depending on the scope and nature of the proposed effort. Coordinate any alternative formats and contents relating to technical proposals (Volume 1 of the full proposal) with the cognizant ONR Program Officer (Technical Point of Contact (TPOC)). Alternative formats and content may be directed by the ONR Program Officer or may result from offerors’ suggestions approved by the ONR Program Officer.

Full Proposal Format (Volume 1 – Technical 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
- Number of Pages:

Volume 1 is limited to a maximum of 80 pages. It is the Offeror's responsibility to determine how many of these pages should be used for each section of the Technical Proposal. The cover page, table of contents, photographs/drawings/graphs and resumes are excluded from the page limitations. Technical Proposal pages beyond the page limit shall not be evaluated.

Volume 2 is not page limited.

- Copies – one (1) original, one (1) copy, and one (1) electronic copy on a CD-ROM.

Full Proposal Content:

Volume 1: Technical Proposal:

- *Cover Page:* The cover page shall be labeled "TECHNICAL PROPOSAL" and shall include the following:
 - a) BAA number
 - b) Proposal Title
 - c) Identity of prime offeror and complete list of subcontractors, if applicable
 - d) Technical contact (name, address, phone/fax, e-mail address)
 - e) Administrative/business contact (name, address, phone/fax, e-mail address)
 - f) Duration of effort (differentiate basic effort and any proposed options)
- *Table of Contents:* An alphabetical/numerical listing of the sections within the proposal, including corresponding page numbers.
- *Executive Summary:* A nominal two page description in narrative form describing the proposed effort.
- *Statement of Work:* A Statement of Work (SOW) clearly detailing the scope, objectives and program task areas 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. Include a detailed listing of the technical tasks/subtasks organized by year.
Note: The proposal shall include a separate self-standing Statement of Work, which contains only unclassified information and does not include any proprietary restrictions. Submission of the SOW without restrictive markings is your company's affirmation that the SOW is non-proprietary and releasable in response to Freedom of Information Act (FOIA) requests.
- *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 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/VFDFARA.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. Further,

offerors will be evaluated on their ability and desire to enter into government licensing agreements for smooth transition of the developed technologies into the SDD. Offerors who fail to provide government licensing options that are cost effective will be rated significantly lower than ones that clearly provide a procurement path for these options.

- *Deliverables:* A detailed description of the offeror's results to be delivered, inclusive of the timeframe in which they will be delivered. The deliverables should include a final technical report. Interim reports and briefings will be required on a monthly, quarterly and annual basis. Additionally, and as deemed appropriate, hardware deliverables will include design drawing packages and electronic engineering models suitable for integration into a Maritime Laser Demonstrator Prototype, as well as required safety and operational manuals required for safe operation of hardware delivered.

- *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. Cite Key Personnel and professionals out of any government laboratories (see VII paragraph 1). Designate one individual as the Primary Investigator (PI) for the award to serve as the primary point of contact. It is required that the proposal include a description of the facilities that are required for the proposed effort with a description of any GFE/Hardware/Software/Information required, by version and/or configuration. Since such GFE or Government owned facilities may constitute a significant programmatic risk, the proposer is strongly encouraged to enter into a formal Cooperative Research and Development Agreement (CRADA) or MOA, which clearly identifies the government requirement for funding of a government facility, or the use of any GFE. Submission of a CRADA or MOA without the signatures of both a cognizant Senior Executive Manager (SES, CTO, etc) or Government Asset Owner (Technical Director, CTO, CTTO) and a senior company officer (President, Vice President, Technical Director, or CTO) may be evaluated as having potentially significant management risk that could result in uncontrolled cost growth.

- *Technical Approach:* The offeror shall provide a detailed plan that coherently describes the technical approach, risks, and risk mitigation proposed for contract performance and which demonstrates a technical understanding of the proposed SOW. The technical approach should address each of the numbered task areas delineated in the SOW, describing in detail 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 that 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 schedule integrity, timely delivery, successful completion of the tasks outlined by the SOW submission, and how the resulting efforts or hardware would be integrated into the TD or SDD Phases.

- *Personnel:* The offeror shall demonstrate the ability to adhere to the Program Security Classification Guidelines (to be provided prior to contract award). The offeror shall provide resumes of proposed key personnel to be utilized by the contractor/ subcontractor in the performance of any resulting contract. The percentage of time to be devoted to the effort by key personnel should be stated clearly. Upon review of the resumes, if the

Government questions the qualifications or competence of any person proposed to perform under a resulting contract, the burden to establish that person's qualifications rests on the offeror.

- *Past Performance:* Past performance information will consist of a description of the offeror's Government contracts (both prime and major subcontracts (those involving 25% or more of the effort) received during the past two (2) or more years), which are similar in complexity and maturity to the effort being proposed. The offeror may describe any quality awards or certificates that indicate the offeror possesses a high quality process for providing desired research and development outcomes.
- *Other Agencies:* Include the name(s) of any other agencies to which the proposal or a similar topic has been submitted or funded, and the cognizant Program Officer.

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, broken down and summed by each month of the calendar year or Government fiscal year. Part 2 will provide a cost breakdown by task/sub-task corresponding to the task numbers in the Statement of Work. Although not required, and provided here 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 use of the SF 1411 is optional. The words "COST PROPOSAL" shall appear on the cover page in addition to the following information:
 - a) BAA number
 - b) Proposal Title
 - c) Identity of prime offeror and complete list of subcontractors, if applicable
 - d) Technical contact (name, address, phone/fax, e-mail address)
 - e) Administrative/business contact (name, address, phone/fax, e-mail address)
 - f) Duration of effort (separately identify basic effort and any proposed options)
- *Part 1:* Detailed breakdown of all costs by cost category by calendar month, and summed by Quarter and by GFY:
 - a) Direct Labor - Individual labor category or person, with associated labor hours and unburdened direct labor rates;
 - b) Indirect Costs - Fringe Benefits, Overhead, G&A, COM, etc. (Must show base amount and rate.);
 - c) Travel - Number of trips, destination, duration, etc.;
 - d) 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 contract award;*
 - e) Consultant - Provide consultant agreement or other document which verifies the proposed loaded daily/hourly rate;

- f) 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.);
- g) Other Direct Costs, particularly any proposed items of equipment or facilities. Equipment and facilities generally must be furnished by the contractor. (Justification 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.);
- h) Proposed Fee/Profit

- *Part 2:* Cost breakdown by task/sub-task corresponding to the same task numbers in the Statement of Work.

** Note: DoD Federal Acquisition Regulation provision 252.215-7003 (48 CFR § 252.215-7003) is incorporated into this solicitation by reference. The offeror is to exclude excessive pass-through charges from subcontractors. The offeror must identify in its proposal the percentage of effort it intends to perform and the percentage to be performed by each of its proposed subcontractors. If more than 70 percent of the total effort will be performed through subcontracts, the offeror must include the additional information required by the above-cited clause.*

3. Significant Dates and Times

This announcement will remain open until 31 July 2010. Proposals may be submitted at any time during this period.

4. Submission of Late Proposals –

Not applicable (N/A)

5. Address for the Submission of Full Proposals

Office of Naval Research
One Liberty Center
875 North Randolph Street
Attn: Peter Morrison ONR Code 35
Arlington, VA 22203-1995

NOTE: Proposals sent by fax or e-mail will not be considered.

V. EVALUATION INFORMATION

1. Evaluation Criteria

Award decisions will be based on a competitive selection of proposals resulting from both a technical and cost review, specifically taking into account the relevance or significant impact

in meeting and/or exceeding the requirements and goals for the Maritime Laser Demonstrator/Maritime Laser Weapons System.

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 the availability of funds.

Overall, the technical factors (1 – 4 above) are more important than the cost factor, with the technical factors all being of equal value. The degree of importance of cost 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 proposal's technical superiority to the Government.

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, small disadvantaged businesses, woman-owned small businesses, HUB Zone small businesses, veteran-owned small businesses, service disabled veteran-owned small businesses, historically black colleges and universities, and minority institutions. The Government will evaluate options for award purposes by adding the total cost for all options to the total cost for the basic requirement. Evaluation of options will not obligate the Government to exercise the options during contract performance.

2. Evaluation Panel

Technical and cost proposals submitted under this BAA will be protected from unauthorized disclosure in accordance with FAR 3.104-4 and 15.207. The cognizant Program Officer and other Government experts will perform the evaluation of technical proposals. Cost proposals will be evaluated by Government business professionals. 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 “541712” with a small business size standard of “500 employees”.
- Central Contractor Registry (CCR) - Successful Offerors not already registered in the 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>.
- Subcontracting Plans - Successful contract proposals that exceed \$550,000, submitted by all but small business concerns, will be required to submit prior to award a Small Business Subcontracting Plan in accordance with FAR 52.219-9.
- Certifications – Proposals for contracts should be accompanied by a completed certification package.

For contracts, in accordance with FAR 4.1201, prospective contractors shall complete and submit electronic annual representations and certifications at <http://orca.bpn.gov>. In addition to completing the Online Representations and Certifications Application (ORCA), proposals must be accompanied with a completed DFARS and contract specific representations and certifications. These "DFARS and Contract Specific Representations and Certifications", i.e., Section K, may be accessed under the Contracts and Grants Section of the ONR Home Page at http://www.onr.navy.mil/02/rep_cert.asp.

2. Reporting

The following are samples of data deliverables that could be required under a typical research effort.

- Technical and Financial Progress Reports
- Presentation Materials
- Other Documentation or Reports
- Final Report

However, please note that specific data deliverables (that may include software and hardware deliverables) may be proposed by each offeror and finalized during negotiations. Research performed under contracts may also include the delivery of software, prototypes, installation, training, and include other hardware deliverables.

VII. OTHER INFORMATION

1. Government Property/GFE and Facilities

Each offeror must provide a very specific description of any equipment/hardware that it needs to acquire to perform the work, and the cost for the use expected to be borne by the

government. 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. 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 permissibility 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 may be available and should be considered. These facilities and resources are of high value and some are in constant demand by multiple programs. The use of these facilities and resources should be negotiated as the BAA proposals are being composed, and the development of a CRADA or a MOA may be considered as a pre-requisite prior to award, due to potential safety and environmental liabilities involved with certain types of testing procedures or equipment used. Offerors should explain as part of their proposals which of these facilities they recommend are critical for the project's success.

2. Security Classification

In order to facilitate intra-program collaboration and technology transfer, the Government will attempt to enable technology developers to work at the unclassified level (FOUO) to the maximum extent possible. If access to classified material will be required at any point during performance, the Offeror must clearly identify such need prominently in its proposal.

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 AALAC accreditation and/or NIH assurance, IACUC approval, research literature database searches, and the two most recent USDA inspection reports) prior to award. For assistance with submission of animal research related documentation, contact the ONR Animal/Human Use Administrator at (703) 696-4046.

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 research protocol; IRB-approved informed consent form; proof of completed human research training (e.g., training certificate or institutional verification of training); an application for a DoD Navy Addendum to the Offeror's DHHS-issued Federalwide Assurance (FWA) or the Offeror's DoD Navy Addendum number. In the event that an exemption criterion under 32 CFR.219.101(b) is claimed, provide documentation of the determination by the Institutional Review Board (IRB) Chair, IRB Vice Chair, designated IRB administrator, or official of the human research protection program. Information about assurance applications and forms can be obtained by contacting ONR_343_contact@navy.mil. 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. Additional supporting documentation may be requested. For additional information on this topic, email ONR_343_contact@navy.mil. For assistance with submission of human subject research related documentation, contact the ONR Animal/Human Use Administrator at (703) 696-4046.

4. 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's 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/>.

5. Protection of Proprietary and Sensitive Information

The parties acknowledge that, during performance of the contract agreement resulting from this BAA, the recipient may require access to certain proprietary and confidential information (whether in its original or derived form) submitted to or produced by the Government. Such information includes, but is not limited to, business practices, proposals, designs, mission or operation concepts, sketches, management policies, cost and operating expense, technical data and trade secrets, proposed Navy budgetary information, and acquisition planning or acquisition actions, obtained either directly or indirectly as a result of the effort performed on behalf of ONR. The recipient shall take appropriate steps not only to safeguard such information, but also to prevent disclosure of such information to any party other than the government. The recipient agrees to indoctrinate company personnel who will have access to or custody of the information concerning the nature of the confidential terms under which the government received such information and shall stress that the information shall not be disclosed to any other party or to recipient personnel who do not need to know the contents thereof for the performance of the contract/agreement. Recipient personnel shall also be informed that they shall not engage in any other action, venture, or employment wherein this information will be used for any purpose by any other party.

6. Project Meetings and Reviews

In-Progress Reviews (IPRs) 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 70% of these meetings will be at or near ONR, Arlington VA and 30% 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.

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. All questions shall be submitted in writing by electronic mail, and should contain "BAA 09-035" in the subject heading.