

BROAD AGENCY ANNOUNCEMENT
SUBMARINE AND SURFACE COMBAT SYSTEM
SIGNAL PROCESSING TECHNOLOGIES

General Information:

Broad Agency Announcement (BAA) Number: 13-IWS5A-01

Posted Date: 22 March 2013

White Paper Response Due Date: No later than 21 March 2014

Full Proposal Submittal Due Date (if applicable): TBD

Classification Code: A – Research and Development

Contracting Office Address:

1333 Isaac Hull Avenue SE, Washington Navy Yard, D.C. 20376

This synopsis is being posted to both the Federal Business Opportunities (FBO) site located at <http://www.fbo.gov> and the Navy Electronic Commerce Online (NECO) site located at <http://www.neco.navy.mil>. While it is understood that FBO is the single point of entry for the posting of synopses and solicitations to the internet, NECO is the alternative in case FBO is unavailable. Please feel free to use either site to access information posted by the Naval Sea Systems Command.

*Note: The terms “Navy” and “Government” in this BAA are one and the same.

1.0 Purpose

1.1 The Naval Sea Systems Command Advanced Development Office for Undersea Systems within the Program Executive Office for Integrated Warfare Systems (PEO IWS) is intending to solicit proposals through the use of a Broad Agency Announcement (BAA) (see FAR 35.016) for research interests in advanced undersea technologies in the areas of submarine and surface ship acoustic, imaging, and combat system signal processing.

1.2 The Navy’s primary objective for this BAA will be the acquisition of applied research for the development of capabilities in the below stated areas. Innovative concepts, methods or approaches are solicited rather than focusing on a specific system or hardware/software solution. These concepts, methods or approaches will be tested in a prototype system to ensure compatibility with existing solutions/systems before being rapidly transitioned to Fleet introduction via appropriate acquisition programs.

For Signal Processing Technologies in support of submarine and surface ship acoustic, imaging and combat systems, the Navy's suggested areas of interest include, but are not limited to the following:

- Imaging
- Passive Signal Processing
- Active Signal Processing
- Automation, Contact Management, Contact Followers, and Target Motion Analysis
- Information Management
- Embedded Training
- Mission Planning
- Sonar Tactical Decision Aide
- Intuitive Operator Interface/Operator Machine Interface (OMI)
- Onboard Real-Time Reconstruction Tool
- Torpedo Detection, Classification and Localization
- Anti-Torpedo Defense
- Electronic Warfare
- Navigation

Note: Technologies developed for a particular application may be reused in a different effort (e.g., submarine signal processing capability reused for surveillance or surface combatant ships).

1.3 The Navy may either conduct an Industry Day(s) or provide technical information by some other means during the one year open period of this BAA in order to elaborate on the areas of research interest in subparagraph 1.2. The Navy may also hold a 'last call' event towards the end of the BAA one year open period, which will be separately synopsized with instructions and points of contact to register and/or receive copies of briefs. Offerors are encouraged to submit White Papers soon after each event due to limited Navy funding for contract awards.

1.4 Industry Day will be held on 16 April 2013 at the facilities of Lockheed Martin, Manassas VA. Attachment #1 (2013 Industry Day Registration Form) to this BAA contains pertinent information for this event including forms that must be completed and submitted for attendance and/or receipt of briefings.

2.0 Proposal Selection Process and Contract Information

2.1 A two-phased (Phase I and Phase II) proposal selection process will be utilized under this BAA. This approach will save the Navy and offerors considerable expense by not requiring development of full scale proposals unless necessary and desired by the Navy.

2.2 Phase I of the proposal selection process consists of an invitation to submit White Papers describing technical approach, experience, capabilities and past performance with a cost estimate in the technology improvement areas listed in Section 1.0 above. White Papers are initially sought to preclude unwarranted effort on the part of the offeror in also preparing full technical and cost proposals without an initial assessment of the technical and operational feasibility of the

concept by the Navy. Offerors submitting White Papers may be invited to submit a full technical and/or cost proposal on all or part of their White Paper submission. However, any such invitation is in no way an obligation on the part of the Government to award a contract. Decisions regarding the invitation to submit a full proposal will be based on the Navy's evaluation under Section 7 below. Furthermore, White Papers may be summarily rejected for the following reasons: 1) Proposal is not germane to research interests identified in Section 1.2 above; 2) Proposal was tried in the past or is in an existing capability; and/or 3) Proposal has unmanageable high risk or is unaffordable.

2.3 Phase II of the proposal selection process will consist of a request from the Government to the offeror(s) for full technical and/or cost proposals for a maximum of a five (5) year period of performance to support the Navy in the technology improvement areas listed in Section 1.0 above. This effort will include maturing the technology leading to laboratory and at-sea testing, and participating in technical/program reviews. An offeror can be considered for contract award only upon preparation and submittal of a fully compliant Phase II proposal based on the Government's Request for Proposal. The Government may choose to include coverage for extending a selected capability for reuse in other applications (e.g. submarine technologies may be extended for reuse on surface or surveillance applications).

2.4 It is anticipated that Cost-Plus-Fixed-Fee (CPFF), Level of Effort contracts will be awarded under Phase II of this selection process. It is also anticipated that Technical Instructions (TIs) will be issued to guide specific efforts as required. Travel, Material, and Other Direct Costs will not be subject to Fixed Fee. Contract periods of performance will include a base year with up to four (4), one year options for a total performance period of up to five (5) years. Since NAVSEA and its affiliated PEOs have funded related technology development under numerous programs, submittals that build on current or previous Department of Defense (DoD) work are encouraged. However, if offerors are enhancing work performed under other DoD projects, they must clearly identify the point of departure, what existing work will be brought forward, and what new work will be performed under this BAA. Industry, academia, Small Businesses, Small Disadvantaged Businesses, educational institutions, Historically Black Colleges and Universities, and Minority Institutions are all encouraged to participate.

3.0 General Source Selection Information (See FAR 2.101 and 3.104)

3.1 Any contract(s) awarded based on responses to this BAA are considered to be the result of full and open competition (see FAR 6.102(d)(2)(i)) and are in full compliance with the provisions of Public Law (PL) 98-369, "The Competition in Contracting Act of 1984."

3.2 The planned schedule for this BAA is as follows: This BAA will be open for a one (1) year period for Phase I, during which time White Papers may be submitted. Offerors are encouraged to submit White Papers approximately one (1) month after an Industry Day (or other means chosen by Navy to provide additional technical information) for each applicable technology area. Deadlines for White Papers submitted in response to an Industry Day will be promulgated at that Industry Day. The Navy intends to complete its review of White Papers approximately two (2) months thereafter for each applicable technology area. Any offerors invited to submit full technical and/or cost proposals shall do so within one (1) month of Navy notification of

invitation to submit. The evaluation of proposals, including discussions/negotiations, if needed, will be approximately two (2) months after proposals have been received. Therefore, the Navy anticipates that the earliest potential contract award(s) made as a result of this BAA will be in the 1st Qtr CY2014.

3.3 Offerors are advised that only the Contracting Officer is legally authorized to bind the Government. All contractual and technical questions regarding this BAA must be directed to the Contracting Officer, LCDR Christopher Wilson at (202) 781-0527 or email christopher.t.wilson@navy.mil or Tracey Carothers at (202) 781-0480 or email tracey.carothers@navy.mil. Questions submitted no later than 10 working days after release of this announcement and 10 working days after an Industry Day will be answered by the Government. Questions submitted later than 10 working days may not provide sufficient time for a Government response that provides offerors sufficient time to react to such a response.

3.4 Phase I White Papers submitted in response to this BAA shall be sent to the Contracting Officer, LCDR Christopher Wilson and mailed to the Cognizant Contracting Activity: Commander, Naval Sea Systems Command, ATTN: Code 02524, 1333 Isaac Hull Avenue, SE, Washington Navy Yard, Washington, D.C. 20376. (E-mail or faxed submittals will not be accepted). This announcement will remain open until 21 March 2014. White Papers may be submitted anytime during this period.

3.5 Those offerors selected to proceed to Phase II of the selection process will be notified by the Contracting Officer. The invitation to submit a Phase II proposal will include a date and time for submittal.

4.0 White Paper and Full Proposal Preparation Costs

Offerors are hereby advised that the Government will not pay for any White Paper or full proposal preparation costs resultant from this BAA. The cost of preparing White Papers and full proposals is NOT an allowable direct charge to any resulting contract that may be awarded as a result of this announcement, or any other contract with the Government.

5.0 Data Rights & Proprietary Data

5.1 The Government desires a minimum of Government Purpose Rights in technical data delivered under any contract resulting from the two phased selection process described herein.

5.2 The Government will treat White Papers the same as bid and proposal information (see DFARS 252.227-7016). White Papers or full proposals containing data that is not to be disclosed to the public for any purpose or used by the Government except for evaluation purposes shall include the following statement on the cover page:

“This document includes data that shall not be disclosed outside the Government and shall not be duplicated, used, or disclosed, in whole or in part, for any purposes other than evaluation. If, however, a contract is awarded to this offeror as a result of, or in connection with, the submission of this data, the Government shall have the right to duplicate, use, and disclose this data to the

extent provided in the resulting award document. This restriction does not limit the Government's right to use information contained in this data if it is obtained from another source without restriction. The data subject to this restriction are contained in sheets marked "Proprietary" or that contain the legend prescribed by FAR 52.215-1."

6.0 Submission Information

6.1 The Government reserves the right to select all, some, or none of the White Papers or full proposals received in response to this BAA. Offerors must be able to certify that they have an appropriate facility clearance to meet the security requirements of work proposed, and key personnel must be certified as holding an appropriate clearance. The security clearance level required for these efforts is up to the SECRET level.

6.2 White Papers (Phase I): White Papers shall be UNCLASSIFIED and no more than fifteen (15) pages, excluding resumes and draft Statements of Work. No supplemental information should be submitted such as supporting videos; but screenshots or photos may be submitted provided it is within the page limit. A separate White Paper shall be submitted for each research interest proposed; no grouping of White Papers. White Papers shall include the following information:

1. Cover page, including company name and address, proposal title, area of BAA being addressed, technical and administrative points of contact, along with email address, telephone and facsimile numbers;

2. Executive Overview of the proposed technology improvement area as well as a summary of any innovative claims, and the offeror's experience, capabilities and past performance in this area;

3. Technical Description, which should be sufficiently accurate and complete to assist the Government to write a Statement of Work, and consist of discussions of the technology improvement(s) being proposed and the ingenuity associated with the concept. Provide a summary of the deliverables including data associated with the proposed technology improvement(s). If any portion of the proposed effort is predicated upon the use of Government-owned resources of any type, the contractor shall clearly identify: the resources required, the date the resource is required, the duration of the requirement, the source from which the resource may be acquired, if known, and the impact on the effort if the resource is not provided. This section should specifically address any intellectual property claims associated with the outcome of this effort. Specifically, the offeror shall justify the use of proprietary, vendor-unique, or closed components including but not limited to hardware, software and interfaces in current or future designs. Since the Government supports Open Architecture principles, asserted rights other than Unlimited or Government Purpose Rights may result in not receiving an invitation to submit Full Technical and Cost Proposals;

4. Offeror's capabilities and experience;

5. Resumes of key personnel (excluded from page limit), (It is preferred that file name be formatted as: CompanyName_FirstNameLastName_Resume.pdf);

6. Discussion of past performance detailing previous accomplishments and work in this or closely related areas as well as previous cost and schedule performance. Include contract numbers and their points of contact;

7. A high level schedule for the proposed effort;

8. A brief discussion of the overall approach to management of this effort. This should include the organization, project/function/subcontractor relationships, government interfaces, and how performance, cost and schedule will be assessed and controlled;

9. Draft Statements of Work (SOW) including deliverables and key milestones, by fiscal year, to accomplish the effort proposed in the White Paper (excluded from page limit);

10. Cost Estimate on a fiscal year basis (October 201X– September 201X+1) for up to five (5) years;

11. Indicate if an existing contract can be utilized for this effort, and provide the contract number and point-of-contact information; and

12. Submit to the Contracting Officer (see subparagraph 3.4 above) one (1) paper copy and one (1) electronic copy using Adobe. Pages are to be 8.5 x 11 inch, single-sided. Minimum font is 10 point. Electronic submittals should be clearly readable as a 'pdf' version (an additional Word (.doc) document is unnecessary), and avoid sending an electronic copy of a scanned version. It is preferred that file name is: CompanyName_Title_WhitePaper.pdf.

6.3 Full Technical and Cost Proposals (Phase II): If solicited by the Contracting Officer, offerors shall submit their technical proposals, one (1) paper copy and one (1) electronic copy using Adobe and/or cost proposals, one (1) paper copy and one (1) electronic copy by the time and date requested in the solicitation. Proposals shall be UNCLASSIFIED and consist of two (2) separately bound volumes. Volume I* shall provide the technical proposal and Volume II shall address cost. Volume I length is limited to twenty (20) pages (which allows for elaboration over similar information provided in White Papers) exclusive of resumes of key personnel, which has no page limit. Pages are to be 8.5 x 11 inch, single-sided. Minimum font is 10 point. Electronic submittals should be clearly readable as a 'pdf' version (an additional Word (.doc) document is unnecessary), and avoid sending an electronic copy of a scanned version. Volume II has no page limit. Succinct proposals are desired.

*Note: The requirement for Volume I may be waived by the NAVSEA Contracting Officer if the offeror's overall qualifications are judged adequate based on the content and completeness of the technical description, experience, capabilities and past performance in the White Paper.

Volume I shall include the following sections:

1. Cover page, including company name and address, proposal title, area of BAA being addressed, technical and administrative points of contact along with email address, telephone and facsimile numbers; followed by a letter signed by the authorized officer specifying the proposal validity period (at least 270 days);

2. Executive Overview of the proposed technology improvement area as well as a summary of any innovative claims, and the offeror's experience, capabilities and past performance in this area;

3. Technical Description to consist of discussions of the technology improvement(s) being proposed and the ingenuity associated with the concept. Provide a summary of the deliverables including data associated with the proposed technology improvement(s). If any portion of the proposed effort is predicated upon the use of Government-owned resources of any type, the contractor shall clearly identify: the resources required, the date the resource is required, the duration of the requirement, the source from which the resource may be acquired, if known, and the impact on the effort if the resource is not provided. This section should specifically address any intellectual property claims associated with the outcome of this effort. Specifically, the offeror shall justify the use of proprietary, vendor-unique, or closed components including but not limited to hardware, software and interfaces in current or future designs. Since the Government supports Open Architecture principles, asserted rights other than Unlimited or Government Purpose Rights may result in not receiving an award;

4. Offeror's capabilities and experience;

5. Resumes of key personnel (no page limit), (It is preferred that file name be formatted as: CompanyName_FirstNameLastName_Resume.pdf);

6. Discussion of past performance detailing previous accomplishments and work in this or closely related areas as well as previous cost and schedule performance. Include contract numbers and their points of contact;

7. A high level schedule for the proposed effort; and

8. A very brief discussion of the overall approach to management of this effort. This should including the organization, project/function/subcontractor relationships, government interfaces, and performance/cost/schedule control practices.

9. Draft Statements of Work (SOW) including deliverables and key milestones, by fiscal year, to accomplish the effort proposed (excluded from page limit).

Volume II shall estimate and justify costs to support the Volume I technical proposal and/or White Paper reflecting Navy comments, if any, and shall be in the form of Engineering Services for Direct Labor, and separate costs for Travel, Material and any Other Direct Costs. It will include the one-page work breakdown structure, a cost summary and a breakdown of cost by fiscal year (October 201X– September 201X+1) for the base year and up to four (4) one year options, and identify:

1. Direct Labor - Individual labor category or person, with associated labor hours and unburdened direct labor rates; along with justification of the Basis of Estimate (BOE)

2. Indirect Costs and Rates (Fringe Benefits, Overhead, General & Administrative, Facilities Capital Cost of Money (FCCOM)), etc;

3. Travel - Number of trips, number of days per trip, departure and arrival destinations, and number of people. (Note: travel costs will not be entitled to Fixed Fee);

4. Subcontract – Separately identify subcontractor or consultant costs;

5. Material - Itemized 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. (Note: Material costs will not be entitled to Fixed Fee);

6. Other Directs Costs - Itemized or estimated costs. (Note: ODCs will not be entitled to Fixed Fee);

7. Fixed Fee and Fixed Fee percentage. (Note: Fixed Fee is not applicable to Travel, Material or ODCs); and

8. License Option Price for providing data rights that are at least Government Purpose Rights (if applicable).

7.0 Evaluation

7.1 The selection of White Papers submitted in response to this BAA will be based on a scientific and peer review process. The major purpose of the evaluation will be to determine the relative merit of the technical approach of each White Paper. Business and contractual aspects, including proposed cost estimates and budgetary constraints, will also be considered as part of the evaluation. The selection of White Papers to continue through to Phase II of this process will be based on the potential benefits to the Government weighed against the cost estimates provided in the White Papers, in view of the availability of funds.

7.2 If White Papers are not summarily rejected for the reasons cited in subparagraph 2.2 above, then evaluation will be based on the following criteria in descending order of importance:

1. Technical merit and approach;

2. Experience and capabilities of the offeror, and experience of the key personnel who are critical to program success;

3. Past performance; and

4. Cost estimates for budgetary feasibility.

Note. Each proposal will be evaluated against the above criteria and not against each other since proposals are not submitted in accordance with a common work statement.

IMPORTANT NOTE - The Government intends to use Government personnel for the evaluation of White Papers and proposals from activities other than the Naval Sea Systems Command or Program Executive Office for Integrated Warfare Systems. They will likely be from the Office of Naval Research, the Naval Undersea Warfare Center (NUWC) Divisions Newport and Keyport, and Naval Surface Warfare Center (NSWC) Divisions Carderock and Dahlgren. The Government also reserves the right to use contractor support personnel to assist in providing technical advisory support regarding any White Papers and Full Technical and Cost Proposals ensuing from this announcement. In addition, the Government reserves the right to use selected scientific and engineering expert personnel from Johns Hopkins University Applied Physics Laboratory (JHU/APL), Advanced Research Laboratory at the University of Texas (ARL/UT), Massachusetts Institute of Technology Lincoln Laboratory (MIT/LL), and Pennsylvania State University Applied Research Laboratory (PSU/APL), as well as United Kingdom or Australian Government personnel who are under International Agreements with the United States for sonar, imaging and combat system technologies. They will assist in providing technical expertise in the evaluation of any White Paper and Full Technical Proposal ensuing from this BAA. The evaluators and support personnel will be bound by appropriate Non-disclosure Agreements to protect proprietary and source selection information. Additionally, the support organizations described above are prohibited from submitting White Papers in response to this BAA.

Should the offeror have any objections to personnel from these organizations participating in the evaluation of White Papers and proposals, written notification shall be provided to the Contracting Officer, at a minimum of, ten (10) calendar days prior to your submission of White Paper(s). If there is an objection, the specific reason(s) for the objection(s) shall be stated in the written notification, and the specific Non-Government Laboratory, support contractor, or United Kingdom or Australian Government of concern shall be identified.

7.3 One (1) or more awards may be made under this BAA based on the evaluation criteria above and the availability of funds. Accordingly, proposals receiving the highest rating may not result in an award.

8.0 Points of Contact

Contracting Officer: LCDR Christopher Wilson at 202-781-0527 or e-mail christopher.t.wilson@navy.mil or Tracey Carothers at 202-781-0480 or email tracey.carothers@navy.mil

Technical: Mr. Peter Scala at 202-781-3360 or e-mail peter.scala@navy.mil.