

BAA FOR ENGINEERING STUDY CONCEPTS FOR ACP PROGRAM

SPAWAR Business Opportunity

Headquarters – BAA

N00039-06-X-0002 – Advanced Communication Package (ACP)

Description

The Space & Naval Warfare Systems Command (SPAWAR) is exploring innovative concepts and ideas relating to the Advanced Communication Package (ACP) addressing the following topics (also see Attachment 2).

1. **Ku-Band Propagation**
2. **ACP Schedule Feasibility & ACP Project Schedule**
3. **ACP COTS/GOTS Solutions & Market Analysis**
4. **EMI Between the Avionics & Payload Systems**
5. **Common Architecture of Unmanned Vehicles**
6. **NESI Compliance**
7. **ACP Link Queue Architecture**
8. **ISR-Relay Payload Consolidation**
9. **System Controller-Layer 2 Functionality**
10. **Electronically vs. Mechanically Steered Antenna**
11. **Application of Commercial Technologies Feasibility**
12. **Miscellaneous/Open Category**

A Notional Characteristics Description is provided as Attachment 1 to this BAA setting forth the technical requirements of ACP. Respondents should refer to Attachment 1 when developing innovative engineering study concept(s) being submitted in response to this BAA. This information is provided “as is” for informational purposes only.

This publication constitutes a Broad Agency Announcement (BAA) as contemplated in FAR 6.102(d)(2). No request for proposal (RFP), solicitation, or other announcement of this opportunity will be made. This announcement will remain open for approximately one year from the date of publication. **Please note: Although this BAA will remain open for one year, the initial round for which responses are sought will close on September 22, 2006 at 1300 (PST), and thus, those interested in being considered for the study topics listed in Attachments 2 to this BAA SHALL submit white papers no later than September 22, 2006 at 1300 (PST).** It is anticipated that award(s) will take the form of Firm Fixed Price (FFP) contract(s) for engineering studies that will further define the technical concept(s). The duration of the study contract(s) will not exceed **two** months. All interested responsible sources may submit a white

paper. Historically Black Colleges and Universities, Minority Institutions (including Hispanic Serving Institutions and Tribal Colleges and Universities), as well as Small Businesses, HUBZone Small Businesses, Small Disadvantaged Businesses, Veteran-Owned Small Businesses (including Service-Disabled Veteran-Owned Small Businesses), and Women-Owned Small Businesses are encouraged to participate.

WHITE PAPER PREPARATION

White papers submitted in response to this solicitation shall cite the BAA number and the study topic name and number on the white paper cover page. The white paper shall contain, as part of the six (6) page limit threshold, the information discussed below. **The Contractor will be required to comply with DFARS 252.227-7013. The white paper shall state the type of rights the Government will be acquiring to the study.** The white papers shall also clearly and expressly state the timeframe within which the offeror intends to complete the specific engineering study (not to exceed two months).

The contractor shall develop a white paper addressing how the technical concept(s) would achieve all objectives within the relevant topic discussed in the Statement of Objectives (SOO), Attachment 2 hereto. (One six (6) page white paper per engineering topic, if the offeror chooses to address more than one topic.) The offeror shall ensure that the proposed technical concept(s) will address the following:

- For all conclusions supported by laboratory analysis, the contractor shall provide the Government with a complete list of all test equipment including asset tags or serial numbers (where available), test cases, a lab procedure which details all of the steps of the experiment in order of performance, test results, and all analysis leading to any conclusion cited along with supporting rationale.
- The contractor shall also transmit all raw data of the laboratory analysis to the Government.
- A proposed risk mitigation plan if the proposed technical concept fails to meet its stated objective.

The proposed technical concept(s) shall also ensure that all conclusions be supported by theoretical analysis. The technical concept shall address how the resultant study will provide the Government with:

- A written list of all assumptions made for the purposes of analysis including justification or reasoning for each assumption.
- References to research source documentation to include page number and location on page.

- Written description of solution methodology to include known, derived, and empirically developed formulas, as well as example calculations.

Additionally, all white papers submitted shall be accompanied by a proposed not-to-exceed price estimate for each proposed study topic concept. Successful offerors not already registered in the Central Contractor Registry (CCR) shall be required to register in CCR prior to award of any contract. Information on CCR registration is available at <https://www.ccr.dlsc.dla.mil/>.

SUBMISSION OF ELECTRONIC PROPOSALS

(a) Offerors shall submit their proposals electronically to SPAWAR under the instructions contained in this provision. Offerors shall submit their signed proposals as either scanned (“TIFF”) or “PDF” documents. Electronic copies shall be submitted via the SPAWAR E-Commerce Central (SPAWAR E-CC). Offerors submitting electronic proposals (e-Proposals) shall register in the SPAWAR E-CC and select their own password in order to submit a proposal. Offerors are required to read the “Submitting a Proposal?” web page found in the SPAWAR E-CC. For information about “e-Proposal” submission, please visit the SPAWAR E-CC. The URL for the SPAWAR E-Commerce Central is <https://e-commerce.spawar.navy.mil>.

(b) Each electronic file shall also be clearly marked to show the proposal volume number, solicitation number and offeror’s name. E-Proposal files shall not contain classified data. The offeror’s e-Proposal shall be submitted in a “PDF” file created in Adobe Acrobat version 4.01 or greater.

(c) Bids and proposals submitted electronically shall be considered “late” unless the bidder or offeror completes the entire transmission of the bid or proposal prior to the due date and time for receipt of bids or proposals. This paragraph (c) supplements the submission, modification and withdrawal of proposals coverage in FAR 52.215-1, “Instructions to Offerors – Competitive Acquisition” contained in this BAA.

(d) The white paper shall provide administrative information, and shall include the following as a minimum:

(1) Name, mailing address, overnight delivery address (if different from mailing address), phone number, fax number, and e-mail of designated point of contact.

(2) Identify business type (large business, small business, small disadvantaged business, 8(a)-certified small disadvantaged business, HUBZone

small business, woman-owned small business, very small business, veteran-owned small business, service-disabled veteran-owned small business). 'Small business concern' means a concern, qualified as a small business under the criteria and size standards in 13 CFR part 121. Please refer to Federal Acquisition Regulation FAR Part 19 for additional detailed information on Small Business Size Standards. The FAR is available at <http://www.arnet.gov>.

(3) The facility security clearance of the offeror.

(4) White papers shall be no longer than six (6) pages in length per proposed topic (exclusive of resumes and the cost proposal), double-spaced with one-inch margins on all sides, 12 pitch New Times Roman font, on 8 ½ x 11 sized paper and single sided. White papers submitted which do not meet these requirements will not be considered responsive. The white paper page limit is associated with each topic. The offeror may choose to respond to one or more of the topics.

EVALUATION OF WHITE PAPERS

Award decisions will be based on a competitive selection of white papers resulting from a scientific/technical review. Evaluations will be conducted using the following evaluation criteria, all of which are of equal importance:

(1) the overall scientific and technical merits of the white paper as it relates the Statement of Objectives set forth in Attachment 2;

(2) potential naval relevance and contributions of the effort to the agency's specific mission;

(3) the extent of the offeror's capabilities, related experience in the area of ACP or related topics, facilities, techniques, or unique combinations of these which are integral factors for achieving the white paper objectives;

(4) schedule feasibility of the proposed technical concept;

(6) the extent in which the proposed technical concept is short and to the point, precisely worded and explicit, detailed enough to give confidence of knowledge required to complete the work; and

(7) the acceptability of the proposed risk mitigation plan if the proposed technical concept fails to meet its stated objective.

(8) the type of data rights the Government will receive for the deliverables under the contract. The Government desires, at a minimum, Government Purpose Rights in order to achieve the "Industry Day" objectives.

Only those white papers that offer best innovative solution(s) to the required Government need will receive the opportunity to submit a cost proposal and proposed Statement of Work (SOW) based on their technical concept(s), the information contained in this BAA, and the attached SOO. Contractors shall submit their cost proposals and proposed SOWs, seven (7) days after notification that their white paper was selected by the Government. The Government reserves the right to make multiple awards under this BAA.

White papers submitted under this BAA will be protected from unauthorized disclosure in accordance with FAR Parts 3.104-5 and 15.207. Government personnel will perform the evaluation of technical and cost white papers. Restrictive notices notwithstanding, one or more support contractors (primarily Booz Allen Hamilton) may be utilized as technical/contracting advisors and administrative support. However, white paper selection and award decisions are solely the responsibility of Government personnel. Each support contractor's employee having access to white papers submitted in response to this BAA will be required to sign a non-disclosure statement prior to receipt of any white paper submissions. If a company has any objection to Booz Allen Hamilton having access to its white paper and assisting the Government during the evaluation process, it must notify the Contracting Officer of the objection and provide reason for the objection prior to September 22, 2006. If there is no objection, the cover page of the white paper shall contain the words: "(Insert company name) consents to Booz Allen Hamilton viewing, for evaluation purposes, the information contained in this white paper."

SPAWAR reserves the right to fund all, some, or none of the white papers received under this BAA. SPAWAR provides no funding for direct reimbursement of white paper development costs. White papers, and any resultant cost proposals submitted in response to this BAA shall not be returned.

Offerors who are awarded contracts for the engineering studies under this BAA will be provided a maximum of two (2) months to complete the studies and prepare the presentation of results. The Government intends to hold an "Industry Day" on or about January 17, 2007 (with the possibility of it being extended to a second day dependent upon the number of studies awarded and length of presentations), open to all of industry, wherein each contractor who has conducted a study under this BAA will present its study results in a power point presentation. The purpose of the Industry Day is to provide an open forum to

discuss the engineering studies that were completed as a result of this BAA. These studies may or may not result in a future competition for advance communications. Furthermore, the Industry Day will assist in crafting the Navy strategy for potential future programs. The Industry Day power point presentation shall be detailed enough to provide specific information as to the process of the engineering study itself, and the data arising out of the studies. A preliminary hard and soft copy of these power point presentations will be due to the Government five (5) working days prior to the scheduled date for the Industry Day. Thereafter, any questions, and resulting answers, arising out of the presentation of the study results (questions from both the Government and industry) shall be incorporated into the contractors' final reports which shall be due two weeks from the day of the Industry Day presentation (i.e. final reports will be due on or about January 31, 2007). (Note: This requirement shall be factored into the proposed SOW.)

Resulting contracts shall be subject to Contractor Performance Assessment Reporting System (CPARs).

Questions regarding this announcement shall be submitted in writing by e-mail only to karen.rainville@navy.mil. Verbal questions will not be accepted. Questions will be answered via posting answers to the SPAWAR E-Commerce Central Website; accordingly, questions shall not contain proprietary or classified information.

Attachments: (found at SPAWAR E-Commerce Central Website under BAA N00039-06-X-0002)

- 1. Notional Characteristic Description and Appendix of Acronyms**
- 2. Engineering Study Topics Statement of Objectives (SOO)**