

**BAA-DLASM- 2018-01**  
**NATIONAL DEFENSE STOCKPILE RESEARCH**



**Broad Agency Announcement**  
**National Defense Stockpile Research**  
**DLA STRATEGIC MATERIALS**  
**BAA-DLASM-2018-01**  
**AMENDMENT 001- May 9, 2018**

**BAA-DLASM- 2018-01**  
**NATIONAL DEFENSE STOCKPILE RESEARCH**

*Table of Contents*

1. BACKGROUND.....	3
2. AREAS OF INTEREST.....	4
3. CORRESPONDENCE.....	6
4. DUE DATES.....	6
5. GENERAL QUAD CHART AND SUBMISSION INFORMATION.....	7
6. GENERAL WHITE PAPER INSTRUCTIONS.....	8
7. EVALUATION AND DISPOSITION OF WHITE PAPERS.....	9
8. SMALL BUSINESS / SMALL DISADVANTAGED BUSINESS SUBCONTRACTING PLAN.....	9
9. TECHNICAL AND PRICE PROPOSALS.....	9
10. PROPOSAL FORMAT (FOR FULL TECHNICAL AND PRICE PROPOSALS).....	10
11. EVALUATION FACTORS.....	13
12. EVALUATION RATINGS.....	14
13. OTHER PERTINENT INFORMATION.....	16
EXHIBIT A: SAMPLE FORMAT OF STATEMENT OF WORK.....	17
EXHIBIT B: SAMPLE STATEMENT OF WORK.....	18
EXHIBIT C: PAST PERFORMANCE REFERENCES.....	20

**BAA-DLASM- 2018-01**  
**NATIONAL DEFENSE STOCKPILE RESEARCH**

**BROAD AGENCY ANNOUNCEMENT (BAA) FOR  
DEFENSE LOGISTICS AGENCY (DLA)  
STRATEGIC MATERIALS NDS RESEARCH**

**POINT OF CONTACT (POC):** Mark Andrews, Contract Specialist  
DLA-Strategic Materials  
Andrew T. McNamara Building  
8725 John J. Kingman Road  
Fort Belvoir, VA 22060-6221 571-767-3665  
SMContracting@dla.mil

**BAA-DLASM-2018-01**

**Notice Type:** Broad Agency Announcement (BAA) Fiscal Year (FY) 2018 Research Requirements. This notice constitutes a solicitation for a Broad Agency Announcement (BAA) to acquire research expertise in accordance with Federal Acquisition Regulation 35.016 *Broad Agency Announcement*, as supplemented with additional information included in this notice. No formal solicitation will be issued. Only the information provided in this notice is available. Requests for solicitations shall be disregarded. It is intended that this BAA be open from December 20, 2017 to September 30, 2018.

**1. BACKGROUND**

DLA Strategic Materials is charged with acquiring and retaining stocks of strategic and critical materials, as well as encouraging the conservation and development of domestic sources of such materials, to decrease and preclude a dangerous and costly dependence by the United States upon unreliable foreign sources or a single point of failure for supplies of such materials during a National Emergency.

As part of our efforts to encourage conservation and development of domestic sources of strategic and critical materials, DLA Strategic Materials sponsors materials research and development, pursuant to section 98g of title 50, United States Code (U.S.C.). DLA Strategic Materials intends to expand this work, pursuant to 50 U.S.C. 98h-6(a)(3), to qualify existing domestic facilities and domestically-produced strategic and critical materials to meet defense and essential civilian requirements when existing domestic sources of supply are insufficient or vulnerable to a single point of failure.

The purpose of this BAA is to identify domestically-produced materials from possible reliable sources to substitute for materials produced by foreign sources or sole source producers. Interested firms are encouraged to determine if they have products or production processes pertaining to the materials listed in the "Areas of Interest" of this BAA. Submission of responses for other strategic and critical materials or classes thereof is encouraged if the respondent considers it of interest to Department of Defense (DoD) programs of record.

DLA Strategic Materials strongly encourages respondents to identify the U.S. Government customer organizations (e.g., Program Executive Officer, acquisition program office) cognizant of the issues or challenges associated with a given strategic and critical material or its production

**BAA-DLASM- 2018-01**  
**NATIONAL DEFENSE STOCKPILE RESEARCH**

process. This should be an organization / agency that has the technical or programmatic expertise for assessing the value of the strategic and critical material and its production process to potential DoD customers. DLA Strategic Materials further encourages respondents to provide information related to contracts (e.g., contract number, current / pending DoD or other contracts) and Programs of Record (including points of contact) related to a respondent's proposal.

DLA Strategic Materials' need for this BAA stems from the rapidly expanding requirement to stabilize and restore strategic and critical materials supply chains compromised by diminishing manufacturing sources and material shortages (DMSMS). In many cases, DMSMS constraints are self-imposed by the defense acquisition process; specifically, drop-in replacement, substitute, or qualitatively better strategic and critical materials are available, but DoD cannot accept these materials because DoD has not qualified such materials for use in defense systems. Qualification of substitute strategic and critical materials represents a substantial cost-avoidance to DLA Strategic Materials, reduces dependence upon unreliable foreign sources, and improves the overall health and competitiveness of the defense industrial base.

This BAA is issued under the provisions of Parts 35.016 and 6.102(d) (2) (i) and (ii) of the Federal Acquisition Regulation (FAR), which provides for the competitive selection of proposals submitted in response to this announcement. Accordingly, proposals selected for award are considered to be the result of full and open competition and fully compliant with Public Law 98-369, entitled "The Competition in Contracting Act of 1984."

This BAA is an expression of interest only and does not commit the Government to make an award or pay proposal preparation prices generated in response to this announcement. The price of proposal preparation for response to a BAA is not considered an allowable direct charge to any resultant contract or any other contract.

No contract award will be made unless funds are available. If the Government issues a contract award, the Government will issue a contract on a firm-fixed price basis. Prospective Offerors are reminded that only a duly warranted Contracting Officer may obligate the Government to an agreement involving expenditure of Government funds. Only the information provided in this notice is available. No formal solicitation will be issued. The entire budget for contract awards resulting from the BAA shall not exceed \$3,000,000. After initial review of submitted white papers, DLA anticipates requesting proposals from multiple offerors. While a single award of approximately \$3,000,000 is possible, multiple awards for much smaller amounts are more likely. Most awards will be one to two years in duration; however, awards may be proposed for not more than three (3) years.

## **2. AREAS OF INTEREST**

Strategic and critical materials classes of interest for qualification research under this BAA are the following:

(1) Energetic Materials:

- (a) Materials and production processes that increase the range, lethality, or safety of

**BAA-DLASM- 2018-01**  
**NATIONAL DEFENSE STOCKPILE RESEARCH**

propellants, pyrotechnics, explosives, and initiating compositions used in ammunition<sup>1</sup>

- (b) Materials and production processes that decrease the weight of ammunition
  - (c) Materials and production processes that eliminate or decrease the use of hazardous materials in ammunition
  - (d) Material and production process substitutes and / or drop-in replacements to relieve a single point of failure in a supply chain, dependence upon unreliable foreign sources of supply, or replacement of a legacy / obsolete material
- (2) Energy and Power Materials:
- (a) Materials that increase the energy density or safety of batteries in weapon systems, National Security Space systems, or commercial items incorporated into components utilized by a DoD program of record
  - (b) Material and production process substitutes and / or drop-in replacements to relieve a single point of failure in a supply chain, dependence upon unreliable foreign sources of supply, or replacement of a legacy / obsolete material
- (3) Aeronautical and Astronautical Materials:
- (a) Metals, alloys, fibers, composites, or processes (e.g., heat treat) for such materials that would allow for new material systems to be used in existing aerospace applications
  - (b) Materials and production processes (e.g., additive manufacturing) that achieve current design requirements with a reduction in production steps or lead time
  - (c) Materials with that combine thermal or solar conductivity with improved impact protection, transparency, or ultra-violet protection
  - (d) Material and production process substitutes and / or drop-in replacements to relieve a single point of failure in a supply chain, dependence upon unreliable foreign sources of supply, or replacement of a legacy / obsolete material
- (4) Armor Materials:
- (a) Materials, including textiles, that decrease the weight of armor systems with like or

---

<sup>1</sup> For the purpose of this BAA, “ammunition” is defined as (1) small arms, mortar, automatic cannon, artillery, and ship gun ammunition; (2) bombs; (3) unguided rockets, projectiles, and submunitions; (4) chemical ammunition as permitted by the Organization for the Prohibition of Chemical Weapons Convention; (5) land mines; (6) demolition material; (7) grenades; (8) flares and pyrotechnics; (9) guided projectiles, rockets, missiles, and submunitions; (10) naval mines, torpedoes, and depth charges; (11) cartridge and propellant-actuated devices; (12) chaff and chaff dispensers; (13) guidance kits for bombs and other ammunition; (14) swimmer weapons; (15) explosive ordnance disposal tools; and (16) related ammunition containers and packaging materials.

**BAA-DLASM- 2018-01**  
**NATIONAL DEFENSE STOCKPILE RESEARCH**

improved ballistic performance

- (b) Materials, including textiles, that combine ballistic protection with other forms of defense (e.g., chemical, biological, radiological, nuclear)
  - (c) Material and production process substitutes and / or drop-in replacements to relieve a single point of failure in a supply chain, dependence upon unreliable foreign sources of supply, or replacement of a legacy / obsolete material
- (5) Stable Isotopes:
- (a) Materials and production processes that increase the safety or efficiency of nuclear reactor coolant and waste storage systems
  - (b) Material and production process substitutes and / or drop-in replacements to relieve a single point of failure in a supply chain, dependence upon unreliable foreign sources of supply, or replacement of a legacy / obsolete material
- (6) Paints, Coatings, and Surface Treatments
- (a) Materials that improve corrosion resistance or provide like corrosion resistance with a decrease in weight, coating thickness, surface treatments, or use of hazardous materials
  - (b) Materials with combined protection capabilities (e.g., ultra-violet, chemical, electromagnetic) to reduce the weight or thickness of coatings or reduce the number of required coatings
  - (c) Material and production process substitutes and / or drop-in replacements to relieve a single point of failure in a supply chain, dependence upon unreliable foreign sources of supply, or replacement of a legacy / obsolete material

### **3. CORRESPONDENCE**

All correspondence and questions on this BAA, including requests for information on how to submit a quad chart, white paper or proposal as well as submission of the same should be directed to [SMContracting@dla.mil](mailto:SMContracting@dla.mil). Please reference BAA number BAA-DLASM-2018-01 in all correspondence and communications.

### **4. DUE DATES**

This BAA remains from December 18, 2017 to September 30, 2018. White papers may be submitted from 1<sup>st</sup> January 2018 and will be reviewed and evaluated as received. White papers submitted after expiration of the BAA are “late” and will not be considered. Parties may be requested by DLA Strategic Materials to submit proposals after the review of white papers. Each

**BAA-DLASM- 2018-01**  
**NATIONAL DEFENSE STOCKPILE RESEARCH**

request will provide a date when the proposal will be due.

## **5. QUAD CHART SUBMISSION INFORMATION**

Offerors shall submit an unclassified Quad Chart, in Microsoft PowerPoint format and landscape orientation, to DLA Strategic Materials electronically to [SMContracting@dla.mil](mailto:SMContracting@dla.mil) with the white paper. **A Quad Chart template can be found at the Federal Business Opportunity website, FY2017 DLA Broad Agency Announcement, on the right hand side column, titled "Appendix 1 - Quad Chart Format"**. The Quad Chart should be formatted as stated and include the following information:

- **Heading** (Times New Roman 24pt Bold)
  - Title of Project
  - Company
  - BAA Requirement Number
  
- **Upper Left Quadrant:**
  - Picture or graphic illustrating proposed technology development
  
- **Lower Left Quadrant** (Times New Roman 12pt Normal):
  - Project objectives and scope
  - Key personnel, facilities/equipment
  - Related prior or current work
  
- **Upper Right Quadrant** (Times New Roman 12pt Normal):
  - How the proposal contributes and addresses the requirement
  - How the proposal will transition to existing military systems or programs
  - Technology / Manufacturing Readiness Level (current level and anticipated level at project completion)
  
- **Lower Right Quadrant:** (Times New Roman 12pt Normal):
  - Estimated costs
  - Major activities/milestones to include transition and/or deployment events
  - Deliverables and metrics/measures of success
  - Potential risks

DLA Strategic Materials intends to utilize the Quad Chart for the purposes of efficiently describing the scope of an Offeror's proposal. The Quad Chart shall not be used for the purposes of evaluating a proposal; however, Offerors that do not submit a Quad Chart will not be eligible for award.

**Virus Check:** Perform a virus check before uploading the Quad Chart. If a virus is detected, DLA Strategic Materials will reject the file, and the Offeror's proposal will be ineligible for award.

**Security:** Do not lock or encrypt Quad Chart files.

**BAA-DLASM- 2018-01**  
**NATIONAL DEFENSE STOCKPILE RESEARCH**

**6. GENERAL WHITE PAPER INSTRUCTIONS**

DLA Strategic Materials requests interested parties to submit a synopsis of their proposal, commonly referred to as “white paper”. DLA Strategic Materials is seeking unclassified, white papers and proposals that do not contain proprietary information. Offerors are requested to submit white papers prior to the submission of a complete, more detailed proposal. The purpose of white papers is to minimize the labor and price associated with the production of detailed proposals that have very little chance of being selected for funding. An interested party must submit a white paper in order to be eligible for further consideration. After review of white papers, DLA Strategic Materials may request certain parties to submit a full technical and price proposal; such a request does not guarantee contract award. Proposals submitted without the prior submission of a white paper will not be evaluated for award. All proposals submitted in response to this BAA will be considered based upon the evaluation criteria in this BAA. The Government reserves the right to make one, more than one, or no awards under this BAA.

Any responsible source capable of satisfying the Government’s needs may submit a white paper, which shall be considered by DLA Strategic Materials. Historically Black Colleges and Universities (HBCU) and Minority Institutions (MI) are encouraged to submit white papers and join others in submitting white papers; however, no portion of this BAA shall be set aside for HBCU and MI participation due to the impracticality of reserving discrete or severable areas of research in this science. Foreign-owned firms’ participation is subject to foreign disclosure review procedures. Foreign-owned firms should immediately contact the contracting focal point for information if they contemplate responding.

PROSPECTIVE AWARDEE(S) SHALL BE REGISTERED IN THE SYSTEM FOR AWARD MANAGEMENT (SAM) PRIOR TO AWARD, DURING CONTRACT PERFORMANCE, AND THROUGH FINAL PAYMENT OF ANY AWARD RESULTING FROM THIS ANNOUNCEMENT. INFORMATION ON SAM REGISTRATION IS AVAILABLE AT <https://www.sam.gov/>.

**WHITE PAPER PREPARATION AND SUBMISSION INSTRUCTIONS**

- (1) Offerors should submit white papers via email directly to the following email address ([SMContracting@dla.mil](mailto:SMContracting@dla.mil)) and call 571-767-6500 to advise of submission. Please note that if no call is received, your submission may not be reviewed.

Point of Contact: [SMContracting@dla.mil](mailto:SMContracting@dla.mil)

- (d) White papers must be in the following format but do not require any special forms:
  - Single PDF formatted file as an email attachment
  - Page Size: 8 ½ x 11 Inches
  - Margins – 1 Inch
  - Spacing– Single
  - Font– Times New Roman, 12 point

- (2) The white paper shall not exceed five pages plus a cover page and a one page addendum as



**BAA-DLASM- 2018-01**  
**NATIONAL DEFENSE STOCKPILE RESEARCH**

discussed below. The white paper shall include a title, BAA number, Offeror contact information (primary investigator's name, phone number, email address, and company address), areas of interest number, technical description of the effort, identification of risks, project duration, preliminary schedule, and not-to-exceed price. A brief abstract with information explicitly pertinent to the proposed work must be provided in the white paper. No Government furnished information, equipment, property or data will be provided.

- (3) As an addendum to the white paper, include biographical sketches (one page) of the key personnel who will perform the research, highlighting their qualifications and experience.
- (4) The price portion of the white paper shall contain a "not-to-exceed" price amount of the proposed project to be completed.

**7. EVALUATION AND DISPOSITION OF WHITE PAPERS**

- (1) Evaluation Process: Offerors are advised that invitations for complete proposals will be made on the initial white paper submission and the availability of funding. As stated above, the white paper will be evaluated for the areas of interest, technical description of the effort, identification of risks, project duration, preliminary schedule, and not-to-exceed price. White papers evaluated to have significant merit may be invited to submit a complete detailed proposal.
- (2) Disposition Process: After completion of evaluation, the Offeror will be notified in writing of the results (via email). The Government may select white papers that are most promising for further consideration.

**8. SMALL BUSINESS / SMALL DISADVANTAGED BUSINESS SUBCONTRACTING PLAN**

Pursuant to FAR 35.009, large business concerns whose proposal exceeds the simplified acquisition threshold will be required to submit a Small Business / Small Disadvantaged Business Subcontracting Plan if their white paper is selected for further consideration.

**9. TECHNICAL AND PRICE PROPOSALS**

The Government reserves the right to request full technical and price proposals from all, some, or none of the Offerors submitting white papers. Any such request for full technical and priced proposals does not guarantee award. Decisions to select certain proposals for funding will be based on funds availability and the merits of the proposals. Additionally, to be eligible for a potential award of a contract, all prospective Offerors must meet certain minimum standards pertaining to financial resources, ability to comply with performance schedules, prior record of past performance, integrity, organizational structure, experience, operational controls, technical skills, facilities and equipment in accordance with FAR Part 9. Every effort will be made to protect the confidentiality of the proposal and any evaluations. The Offeror must mark the proposal with a protective legend in accordance with FAR 52.215-1(e), Instructions to Offerors – Competitive Acquisition (Jan

**BAA-DLASM- 2018-01**  
**NATIONAL DEFENSE STOCKPILE RESEARCH**

2017). NOTE: DLA Strategic Materials intends to award a firm-fixed price contract as a result of any proposal(s) selected for award.

**10. PROPOSAL FORMAT (FOR FULL TECHNICAL AND PRICE PROPOSALS)**

**PROPOSALS THAT DO NOT COMPLY WITH ALL FORMATTING AND PAGE LENGTH REQUIREMENTS OUTLINED BELOW WILL BE RATED AS UNACCEPTABLE AND REJECTED.**

Technical proposals are limited to thirty (30) single-sided pages. There is no page limit for the price proposal. Submission of proposals shall be in the following format and provide the content requested within the “Areas of Interest” section of this BAA. Offerors’ proposals MUST be submitted in accordance with the instructions listed below.

Offerors shall submit one (1) electronic version (via e-mail) of the proposal in the following format: (a) Microsoft Word format; (b) 8.5" x 11" paper; (c) headers on each page to identify page content; (d) single-spaced, and (e) 12 point Times New Roman font with 1 inch margins around the page. Any project Gantt charts may be submitted on larger (e.g. legal paper), as required to be readable. There is no penalty for submitting shorter proposals, as long as the Offeror covers all required material. Proposals longer than 30 pages will be rated as unacceptable and rejected.

The proposal should be clear and concise and shall include sufficient detail for effective evaluation and substantiating the validity of stated claims in the proposal. Offerors shall propose, recognizing that the Government has no prior knowledge of Offeror’s facilities and experience and will base its evaluation exclusively on the merits and content of the information presented in the proposal. The only exception is that the Government reserves the right to evaluate relevant past performance not included in the technical proposal.

The proposal must be submitted in two volumes: Technical (Volume I) and Price (Volume II). The volumes shall be separate and complete so that evaluation of each may be accomplished independently. The volumes shall be written on a stand-alone basis so that its contents may be evaluated without cross-referencing. A separate technical and price proposal is required for any separate option proposed by Offerors.

- **Two separate volumes consisting of:**
  - Volume I – Technical Proposal
  - Volume II – Price Proposal
- **Volume I, Technical Proposal (30 page limit)**
  - Shall consist of the Proposed Project and address the Evaluation Factors as contained within this BAA.
  - Shall contain a business case analysis (BCA) for the project and discuss how work conducted under the BAA will transition to support of DoD programs of record.
- **Volume II, Price Proposal (no page limit)**
  - Shall contain price and pricing information in support of Volume I technical

**BAA-DLASM- 2018-01**  
**NATIONAL DEFENSE STOCKPILE RESEARCH**

- project.
- The price proposal shall include all of the price information cited in Volume II Section 5 related to the Project Task.

**VOLUME I – TECHNICAL PROPOSAL**

Technical proposals are limited to thirty (30) single-sided pages. No pricing information other than the summary of project price required in Section I of the Technical Proposal shall be contained within the technical proposal. Technical proposals shall contain the following sections:

**Table of Contents:** The table of contents shall specify, by page number, the location of information requested in these instructions. **The Table of Contents does not count toward the 30 page limit.**

- (1) **Section I – Cover Page:** The Cover Page shall provide the following information: (1) BAA number; (2) Area of Interest; (3) Proposal Title; (4) Target Implementation; (5) Point of Contact, including name, telephone number, e-mail address, and mailing address (no post office box); (6) Cage Code and/or Data Universal Number System (DUNS) Number; (7) Contractor’s business type selected among the following categories: Large Business, Small Disadvantaged Business (SDB), Other Small Business, HBCU, MI, Other Educational, or Other Nonprofit; and (8) Summary of the Prices. The information contained in Section I shall be limited to one page. **The Cover Page counts towards the 30 page limit and shall be labeled as Page One.**
- (2) **Section II – Executive Summary:** An Executive Summary of the Offeror’s proposed project is required. This summary shall be used to gain an understanding of the overall proposal contents. It should identify and highlight significant features, summarize innovative claims and unique contribution(s) of the proposal, and include the salient points of the proposed project, including target system applications and the expected outcome improvement associated with the project. **The Executive Summary page(s) count towards the 30 page limit and shall be labeled as Page Two** (and Page Three if appropriate).
- (3) **Section III – Statement of Work (SOW):** The Offeror is required to submit a proposed SOW which accurately describes the work to be performed, is enforceable, and void of inconsistencies. If, in the Government’s opinion, the Offeror’s SOW does not reflect these requirements, the Government will prepare a SOW using information available in the Offeror’s proposal; this process may delay the award. The SOW must be a separate and distinct part of the proposal. The proposed SOW must contain a summary description of the technical methodology as well as the task description, but not in so much detail as to make the SOW inflexible. **The SOW page(s) do not count towards the 30 page limit.** The SOW should include the following sections: 1.0 Objective, 2.0 Scope, 3.0 Background and 4.0 Task/Technical Requirements. See exhibit A for sample formatting of SOW and exhibit B for a sample SOW.
- (4) **Section IV – Detailed Proposal Information:** Offerors shall submit a comprehensive and

**BAA-DLASM- 2018-01**  
**NATIONAL DEFENSE STOCKPILE RESEARCH**

complete technical proposal that demonstrates its ability to perform the area of interest. The technical proposal is expected to contain written and visual material. It must be succinct, well written and presented in a clear straightforward manner. Proposals that merely restate or rephrase the white paper may be considered technically unacceptable and may not be considered further. The technical proposal shall specifically address the six evaluation areas: (1) transition from qualification research to DoD programs of record, (2) relevance and contributions to the area of interest, (3) overall scientific and technical merits of the proposed effort; (4) capabilities, related experience, facilities, or techniques, (5) qualifications, capabilities and experience. **The Detailed Proposal Information page(s) count towards the 30 page limit.**

- (5) **Section V – Business Case Analysis:** The offeror is required to submit a BCA that will discuss how the Offeror plans to transition materials or production processes from the qualification work undertaken by the BAA to the supply chains of DoD programs of record. This will include discussing the benefits to specific government program offices. Additionally any information that may assist the government in understanding how this will affect the market should be included. **The Business Case Analysis page(s) count towards the 30 page limit.**
- (6) **Section VI – Deliverables and Schedule:** Offerors shall submit a list of deliverables that will be provided to the Government and a schedule for project performance and submittal of deliverables. Note that payment will be commensurate with receipt and approval of deliverable(s). **The Deliverables and Schedule page(s) count towards the 30 page limit.**
- (7) **Section VII – Past Performance References:** Offerors shall submit a list of past performance references that will be provided to the Government with the proposal. See exhibit C for sample information. **Past Performance References page(s) do not count towards the 30 page limit.**
- (8) **Section VIII – Resumes:** Offerors shall include resumes of key personnel. **Resumes page(s) do not count towards the 30 page limit.**

**VOLUME II – PRICE PROPOSAL**

Price proposals have no page limitation. Offerors shall submit at a minimum the information listed below relating to price.

**Table of Contents:** The table of contents shall specify, by page number, the location of information requested in these instructions.

- (1) **Section 1 – Proposal Type and Value:** The following information must be provided: type of proposal, brief work effort description, performance period, and total value.
- (2) **Section 2 – Work Breakdown:** The prices proposal shall include a work breakdown structure and price data in sufficient detail to support evaluation of reasonableness (e.g. direct

**BAA-DLASM- 2018-01**  
**NATIONAL DEFENSE STOCKPILE RESEARCH**

labor by categories, indirect labor, indirect prices, travel, subcontract, services, materials, equipment, etc.).

- (3) **Section 3 – Project Task:** The price proposal shall include at a minimum all of the price information listed below.
- (a) Direct Labor: Individual labor categories or assigned persons with associated labor hours and unburdened direct labor rates.
  - (b) Indirect Prices: Fringe Benefit, Overhead, G&A, Price of Money, etc. (base amount and rate).
  - (c) Travel: Number of trips, destinations, durations, etc.
  - (d) Material: Equipment, facilities, etc.
  - (e) Profit dollars and percentage rate.
- (4) **Section 4 – Other Direct Prices:** All other prices associated with the project should be itemized.
- (5) **Section 5 – Payment Plan Schedule:** Provide a proposed monthly invoice payment plan in accordance with the items listed in Section VI – Deliverables and Schedule, in the Technical Proposal.

The Contracting Officer plans to award without discussions. Unsuccessful Offerors may submit a written request to the Contracting point of contact for a debriefing in accordance with FAR 15.506

## **11. EVALUATION FACTORS**

Proposals received as a result of the BAA will be evaluated in accordance with evaluation criteria specified herein through a peer or scientific review process. Written evaluation reports on individual proposals will not be evaluated against each other since they are not submitted in accordance with a common work statement and each proposal stands on its own merit. These criteria are listed in descending order of importance, and the non-price factors, when taken together, are significantly more important than price.

**Proposal Factor 1: Transition from Qualification Research to DoD Programs of Record:**

Will be evaluated based on the thoroughness of the Offeror's BCA and the extent to which DoD programs of record — inclusive of the prime contractor or major subcontractors to such programs — and other DoD Components plan to integrate technical solutions from proposed qualification research into existing or planned DoD programs.

**Proposal Factor 2: Relevance and Contributions to the Area of Interest:** Will be evaluated based on the degree to which proposed studies and processes meet requirements of DoD programs of record and essential civilian industrial base need.

**BAA-DLASM- 2018-01**  
**NATIONAL DEFENSE STOCKPILE RESEARCH**

**Proposal Factor 3: Overall Scientific and Technical Merits of the Proposed Effort:** Will be evaluated for the degree to which the proposed effort relies upon sound engineering and scientific practices to achieve proposed work objectives.

**Proposal Factor 4: Capabilities, Related Experience, Facilities, or Techniques:** Will be evaluated based on the degree to which the capabilities, related experience, techniques, or unique combinations thereof are likely to achieve proposed work objectives successfully.

**Proposal Factor 5: Qualifications, Capabilities and Experience:** Will be evaluated based on the degree the proposed principal researcher/scientist/engineer, team leader or other key personnel, who are critical in achieving the proposed objectives, are likely to accomplish proposed work objectives successfully.

**Proposal Factor 6: Past Performance:** This assessment is based on the Offeror's performance on active and physically completed contracts supplying the same or similar subscriptions either commercially or with the Government. Evaluations of past performance will consider the Offeror's ability to meet contract requirements and to provide timely delivery. In addition, the Government may review any other sources of information for evaluating past performance. Other sources may include, but are not limited to, past performance information retrieved through Past Performance Information Retrieval System (PPIRS). While the Government may elect to consider data from other sources, the burden of providing detailed, current, accurate and complete past performance information rests with the Offeror. In the case of an Offeror without a record of relevant past performance or for whom information on past performance is not available or so sparse that no meaningful past performance rating can be reasonably assigned, the Offeror may not be evaluated favorably or unfavorably on past performance. Therefore, the Offeror shall be determined to have unknown past performance. In the context of acceptability/unacceptability, "unknown" shall be considered "acceptable."

**Proposal Factor 7: Price:** Will be evaluated based on the overall realism and reasonableness of the proposal and availability of funds.

NOTE: Proposals submitted in response to this BAA shall be evaluated through a peer or scientific review process, as they are received. The Contracting Officer has discretion to request proposals after the closing date if the white paper was received prior to the closing date. Proposals lacking technical merit or relevance to DLA Strategic Materials' needs, or those proposals that may fall in areas wherein funds are not expected to be available, may be rejected without further action. Proposals stand on their own merit and will not be evaluated against other proposals.

## **12. EVALUATION RATINGS**

The evaluation team will classify proposals into one of the following categories:

**Category I:** Proposal is well conceived, scientifically and technically sound, pertinent to the program goals and objectives, and offered by a responsible contractor with the competent

**BAA-DLASM- 2018-01**  
**NATIONAL DEFENSE STOCKPILE RESEARCH**

scientific and technical staff and supporting resources needed to ensure satisfactory program results. The proposal's BCA presents a clear timeline for delivery of the proposed material or technology solution to a DoD program of record. The DoD program of record *and* the prime contractor or the relevant major subcontractor to such a program certify their intent to integrate the proposed material or technology solution into the program.

A proposal may satisfy the aforementioned certification with official correspondence from a representative of a DoD program of record and the prime contractor or relevant major subcontractor, with this letter stating the intent to integrate the proposed material or technology solution into the program. This certification of intent may be conditional upon the success of the proposal's work (i.e., whether the technology solution meets performance requirements of the program of record).

Proposals in Category I are recommended for acceptance (subject to availability of funds) and normally are displaced only by other Category I proposals.

**Category II:** Proposal is scientifically or technically sound but is of sufficiently low technology or manufacturing readiness that it cannot be readily integrated into a DoD program of record. The proposal's BCA may present a clear timeline for delivery of the proposed material or technology solution to a DoD program of record. The DoD program of record *or* the prime contractor or the relevant major subcontractor to such a program certify their intent to integrate the proposed material or technology solution.

A proposal may satisfy the aforementioned certification with official correspondence from a representative of a DoD program of record and the prime contractor or relevant major subcontractor, with this letter stating the intent to integrate the proposed material or technology solution into the program. This certification of intent may be conditional upon the success of the proposal's work (i.e., whether the technology solution meets performance requirements of the program of record).

Category II proposals are recommended for acceptance but at a lower priority than Category I proposals.

**Category III:** Proposal is scientifically or technically sound but is of sufficiently low technology or manufacturing readiness that it cannot be readily integrated into a DoD program of record. The proposal's BCA may present a clear timeline for delivery of the proposed material or technology solution to a DoD program of record. *Neither* the DoD program of record *nor* the prime contractor or the relevant major subcontractor to such a program certify their intent to integrate the proposed material or technology solution.

Category III proposals are recommended for acceptance but at a lower priority than Category II proposals.

**Category IV:** Proposal is not technically sound and does not meet the requirements of a DoD program of record, inclusive of the program contractor or major subcontractors to such

**BAA-DLASM- 2018-01**  
**NATIONAL DEFENSE STOCKPILE RESEARCH**

programs.

Category IV proposals are not recommended for acceptance.

**13. OTHER PERTINENT INFORMATION**

- (1) **Responsibility Determination:** To be eligible for award of a contract, all prospective Offerors must meet certain minimum standards pertaining to financial resources, ability to comply with performance schedules, have a satisfactory performance record, integrity, organizational structure, experience, accounting and operational controls, technical skills, facilities and equipment and be otherwise qualified. For additional information concerning standards of responsibility for prospective contractors, please refer to FAR Subpart 9.1.
- (2) **System for Award Management (SAM):** Successful Offerors not already registered in SAM will be required to register prior to award of any contract. Information on SAM registration is available at <https://www.sam.gov/portal/public/SAM>.
- (3) **Representations and Certifications:** The Offeror shall complete and submit Representations and Certifications via SAM at <https://www.sam.gov/portal/public/SAM>.



**BAA-DLASM- 2018-01**  
**NATIONAL DEFENSE STOCKPILE RESEARCH**

**EXHIBIT A: SAMPLE FORMAT OF STATEMENT OF WORK**

The following is offered as the format for the SOW.

(1) 1.0 - Objective: This section is intended to give a brief overview of the specialty area and should describe why it is being pursued, and what you are trying to accomplish.

(2) 2.0 - Scope: This section includes a statement of what the SOW covers. This should include the technology area to be investigated, objectives/goals, and major milestones for the effort.

(3) 3.0 - Background: The offeror shall identify appropriate documents that are applicable to the effort to be performed. This section includes any information, explanations, or constraints that are necessary in order to understand the requirements. It may include relationship to previous, current and future operations. It may also include techniques previously tried and found ineffective.

(4) 4.0 - Technical Requirements:

(a) This section contains the detailed description of tasks which represent the work to be performed which are contractually binding. Thus, this portion of SOW should be developed in an orderly progression and in enough detail to establish the feasibility of accomplishing the overall program goals. The work effort should be segregated into major tasks and identified in separately numbered paragraphs according to the decimal system above. Each numbered major task should delineate, by subtask, the work to be performed. The SOW must contain every task to be accomplished.

(b) The tasks must be definite, realistic, and clearly stated. Use “shall” whenever the work statement expresses a provision that is binding. Use “should” or “may” whenever it is necessary to express a declaration of purpose. Use “will” in cases where no Offeror requirement is involved; e.g., power will be supplied by the Government. Use active voice in describing work to be performed.

(c) Do not use acronyms or abbreviations without spelling-out acronyms and abbreviations at the first use; place the abbreviation in parenthesis immediately following a spelled-out phrase. This provides the definition for each subsequent reuse. As an option, a glossary may contain definitions of acronyms and abbreviations.

(d) If presentations/meetings are identified in your schedule, include the following paragraph in your SOW:

“Conduct presentations/meetings at times and places specified in the contract schedule.”

**BAA-DLASM- 2018-01**  
**NATIONAL DEFENSE STOCKPILE RESEARCH**  
**EXHIBIT B: SAMPLE STATEMENT OF WORK**

**1.0 OBJECTIVE:**

1.1 The objective of this effort is to investigate: (a) techniques for generating code for High Performance Computers (HPCs); (b) technology that connects transformed variants of programs, crucial to debugging and performance analysis; and (c) exploitation of HPCs by software environments.

**2.0 SCOPE:**

2.1 The scope of this effort is to develop technology for building integrated computational environments for high performance systems and distributing a set of advanced computational software tools based on this technology that demonstrates the ability to achieve improved performance on current HPC computers.

**3.0 BACKGROUND:**

3.1 High performance computing and computer communications networks are increasingly important to scientific advancement, economic computation, and national security. The technology is reaching the point of having a transforming effect on our society, industries, national defense, and educational institutions. The goal of the High Performance Computer and Communication (HPCC) program is to accelerate significantly the commercial availability and utilization of the next generation of high performance computers and software.

3.2 The key is by aggressively pursuing research in parallel compilers, object parallel computing, and intelligent performance optimization to deliver revolutionary advances in computational software tools. An ideal computational software environment will ultimately depend on a pervasive understanding of the relationship between parallel programming methodology, parallel compiler transformations, parallel object implementation, and system performance characteristics.

**4.0 TASKS/TECHNICAL REQUIREMENTS:**

4.1 The contractor shall accomplish the following:

4.1.1 Design and implement a Code Generator (CG) for a high performance computer. The CG shall include the design of initial data structures.

4.1.2 Develop an execution analysis infrastructure to debug and study the performance of compiled programs without having to understand the transformations caused upon the program by the compiler, which includes:

4.1.2.1 Implementation of connections between existing front-ends and intermediate representation.

**BAA-DLASM- 2018-01**  
**NATIONAL DEFENSE STOCKPILE RESEARCH**

4.1.2.2 Implementation of connections from serial profile data to intermediate representation.

4.1.3 Develop technology to utilize the power of HPC on the computational tasks to develop a general HPC design environment which includes:

4.1.3.1 Tools for serial machines to be automatically scheduled on nodes of an HPC;

4.1.3.2 Interfaces for automatic scheduling of tools that are specifically designed to be executed on HPCs; and

4.1.3.3 Integrating the CG from paragraph 4.1.1.

4.1.4 Identify HPC community members with relevant applications to experiment with the ALPHA version of the CG from paragraph 4.1.1 and the general HPC design environment from paragraph 4.1.3.

4.1.5 Reporting.

4.1.5.1 Continually determine the status of the effort and report progress toward accomplishment of contract requirements. (See CDRL, A001)\*

4.1.5.2 Continually determine the status of funding required for contract performance. (See CDRL, A002)\*\*

4.1.5.3 Document all technical work accomplished and information gained during the performance of this acquisition. This shall include all pertinent observations, nature of problems, positive as well as negative results, and design criteria established, where applicable; also, procedures followed, processes developed, "Lesson Learned", etc. The details of all technical work shall be documented to permit full understanding of the techniques and procedures used in evolving technology or processes developed. Separate design, engineering, or process specifications delivered during this acquisition shall be cross-referenced to permit a full understanding of the total acquisition. (See CDRL, A003)\*

**BAA-DLASM- 2018-01**  
**NATIONAL DEFENSE STOCKPILE RESEARCH**

**EXHIBIT C: PAST PERFORMANCE REFERENCES**

Please identify three companies/Government agencies that you have worked with in the prior three years. DLA Strategic Materials will contact these companies/agencies to obtain a reference for your company.

1. PROJECT 1: \_\_\_\_\_

a. Work Performed: \_\_\_\_\_

b. Name of Company/Agency: \_\_\_\_\_

c. Dollar Value: \_\_\_\_\_

d. Point of Contact: \_\_\_\_\_

e. Telephone Number: \_\_\_\_\_

f. E-Mail Address: \_\_\_\_\_

2. PROJECT 2: \_\_\_\_\_

a. Work Performed: \_\_\_\_\_

b. Name of Company/Agency: \_\_\_\_\_

c. Dollar Value: \_\_\_\_\_

d. Point of Contact: \_\_\_\_\_

e. Telephone Number: \_\_\_\_\_

f. E-Mail Address: \_\_\_\_\_

3. PROJECT 3: \_\_\_\_\_

a. Work Performed: \_\_\_\_\_

b. Name of Company/Agency: \_\_\_\_\_

c. Dollar Value: \_\_\_\_\_

d. Point of Contact: \_\_\_\_\_

e. Telephone Number: \_\_\_\_\_

f. E-Mail Address: \_\_\_\_\_

**END OF BAA**