

**BAA FA8650-17-S-2002**  
**Enabling Technologies for High-Speed Operable Systems (ETHOS)**  
**CALL 003, Amendment 01**

**Expendable Hypersonic Multi-mission ISR and Strike (Mayhem)**

**Overview Information**

**NAICS Code:** The NAICS Code for this acquisition is: *541715 (Research and Technology in the Physical, Engineering, and Life Sciences (except Nanotechnology and Biotechnology) with the Aircraft, Aircraft Engine and Engine Parts exception), and the small business size standard is 1,500 employees.*

**Federal Agency Name:** Air Force Research Laboratory, Air Force Research Laboratory, Aerospace Systems Directorate (AFRL/RQ)

**Broad Agency Announcement Type:** This is Call 003 against the initial Hybrid BAA FA8650-17-S-2002 Enabling Technologies for High-Speed Operable Systems (ETHOS)

**Broad Agency Announcement Number:** FA8650-17-S-2002

**Moratorium on White Papers:** Beginning from the date of publication of this call and continuing until six months after the due date for proposals, no white papers submitted covering Technical Objective Area 5 (Ref. ETHOS BAA) will be reviewed.

**Request for Mayhem Proposal Requirements Package:** Offerors that anticipate submitting a proposal must submit an e-mail to Megan Rosenbeck at [megan.rosenbeck@us.af.mil](mailto:megan.rosenbeck@us.af.mil) and Joseph Cook at [joseph.cook.39@us.af.mil](mailto:joseph.cook.39@us.af.mil) containing the name of the contractor, Points of Contact (POC), cage code, and request for Mayhem Proposal Requirements Package. Distribution of the Statement of Objectives (SOO) will be disseminated by request only due to the sensitive/classified nature of the information in the SOO and associated attachments. Once validated, the prospective offeror will provide a DD 254 to the Contracting Officer identified on page 2 to enable transmission of classified information. If you intend to propose, please request the Mayhem Proposal Requirements Package by 15 March 2022, 3:00 p.m. Wright-Patterson AFB, OH local time. Due to the sensitive nature of the information, the cut-off date to request the Mayhem Proposal Requirements Package is 22 March 2022, 3:00 p.m. Wright-Patterson AFB, OH local time.

**Proposal Due Date and Time:** 24 May 2022, 3:00 p.m. Wright-Patterson AFB, OH local time. *NOTE: Proposal receipt after the due date and time shall be governed by the provisions of FAR 52.215-1(c)(3).*

*It should be noted that this installation observes strict security procedures to enter the facility. These security procedures are NOT considered an interruption of normal Government processes, and proposals received after the above stated date and time as a result of security delays will be considered "late." Furthermore, note that if offerors utilize commercial carriers in the delivery of proposals, they may not honor time-of-day delivery guarantees on military installations. Be advised, if the U.S. Postal Service (USPS) is used, building 45 only receives U.S. Postal Mail twice a week and delivery by that means may not meet the proposal due date and time. Early proposal submission is encouraged.*

### **Delivery Instructions:**

#### **Unclassified Proposals**

Unclassified proposals shall be submitted on a CD. Due to COVID 19, the AF highly encourages the use of USPS or commercial carrier for the delivery of proposals. The expectation is that the cost/business volumes will be unclassified. Proposals sent via facsimile will not be accepted. Proposals shall be submitted to the Point of Contacts identified below at the following address.

AFRL/RQHP  
Building 45, RM 90  
2130 8th Street  
Wright-Patterson AFB OH 45433  
Attn: Joseph Cook or Megan Rosenbeck

#### **Classified Proposals**

Classified proposals shall be submitted on a CD. The expectation is that the technical/management volumes will be classified. Classified proposal submission instructions will be provided in conjunction with the completion of the DD Form 254, DoD Contract Security Classification Specification.

**Solicitation Request:** Air Force Research Laboratory, Aerospace Systems Directorate (AFRL/RQ), Wright-Patterson Air Force Base is soliciting technical and cost proposals on the research effort described below.

**Type of Contract/Instrument:** The Air Force reserves the right to award the instrument best suited to the nature of research proposed. Accordingly, the Government may award any appropriate contract type under the FAR or Other Transaction (OT) for Prototype, Grant, Cooperative Agreement, or OT for Research. The Air Force may also consider award of an appropriate technology transfer mechanism if applicable. It is anticipated that awards under this Call will generally be Indefinite Delivery/Indefinite Quantity (IDIQ) contracts with cost plus fixed fee

(CPFF) completion task orders (TO). The Call may result in Multiple Single Award IDIQs. Cost reimbursement contracts require successful offerors to have an approved accounting system considered adequate for tracking costs applicable to the contract.

**Estimated Program Cost:** \$334,000,000.00

**Anticipated Number of Awards:** The Air Force anticipates awarding one IDIQ, and one initial task order (TO) for this announcement. However, the Air Force reserves the right to award zero, one, or more contracts for all, some or none of the solicited effort based on the offeror's ability to perform desired work and funding fluctuations.

**Brief Program Summary:** The Mayhem Program is focused on delivering a larger class air-breathing hypersonic system capable of executing multiple missions with a standardized payload interface, providing a significant technological advancement and future capability. The standardized payload interface would create multiple opportunities for various payload integration within the same hypersonic system.

**Communication Between Prospective Offerors and Government**

**Representatives:** Dialogue between prospective offerors and the Government is encouraged until submission of proposals. If not proprietary, questions and responses may be published via an amendment to this Call as deemed appropriate by the Contracting Officer. Discussions with any of the points of contact shall not constitute a commitment by the Government to subsequently fund or award any proposed effort. Only Contracting Officers are legally authorized to commit the Government.

**Contracting POCs:**

Megan Rosenbeck, Contract Negotiator  
AFRL/RQKPA  
2130 8<sup>th</sup> Street, Bldg 45  
Wright-Patterson AFB OH 45433  
E-mail address: AFRL.RQHV.ETHOS\_BAACall003@us.af.mil

Joseph "Jac" Cook, Contracting Officer  
AFRL/RQKPA  
2130 8<sup>th</sup> Street, Bldg 45  
Wright-Patterson AFB OH 45433  
E-mail address: AFRL.RQHV.ETHOS\_BAACall003@us.af.mil

## Full Text Announcement

**I. Program Description:** : Air Force Research Laboratory, Aerospace Systems Directorate, High Speed Systems Division, AFRL/RQH is soliciting proposals for research and development (R&D) expertise for the Mayhem program:

**1. Statement of Objective/Description of Technical Area(s):** See Attachment 5 for the Statement of Objectives (SOO). Please note that the SOOs will not be attached to the Call and must be requested (Ref Pg. 1, Request for Mayhem Proposal Requirements Package). This effort falls within the SOO on the ETHOS BAA (FA8650-17-S-2002), Technical Objective Area 5 – Vehicle Design, Integration and Testing

**2. Within Scope Modifications:** Potential offerors are advised that due to the inherent uncertainty of research and development efforts, awards resulting from this announcement may be modified during performance to make within scope changes, to include but not limited to, modifications which increase overall contract ceiling amount.

### **3. Deliverable Items:**

a. The following will apply to TO 0001

b. Data Items:

A001- Scientific and Technical Reports (Final Report) – One Report Required (One/R)

A002- Contract Funds Status Report (CFSR) – Quarterly (QRTLY)

A003- Integrated Program Management Data and Analysis Report – Monthly

A004- Cost Data Summary Report (DD Form 1921) – Three Times (3TIME)

A005- Contractor Work breakdown Structure – As Generated (ASGEN)

A006- Presentation Material Engineering Drawings – As Required (ASREQ)

A007- Technical Data Package –3TIME

A008- Program Protection Implementation Plan (PPIP) – ASGEN

A009- Report, Record of Meeting Minutes – ASREQ

A010- Data Accession List (DAL) – QRTLY

A011- System Engineering Management Plan (SEMP) – One/R

A012- Risk Management Status Report – QRTLY

A013- Open System Mgmt. Plan – ASGEN

A014- Data Model Management Plan for DEG – ASGEN

A015- System/Subsystem Specification –3TIME

A016- Systems Architecture Deliverable – ASGEN

- A017- Software Development Plan – ASGEN
- A018- Scientific and Technical Reports – ASGEN
- A019- Software Design Description – One/R
- A020- Software Requirements Specification – One/R
- A021- Computer Software Product – One/R
- A022- MBSE System Model for DEG – One/R

- c. Software: None anticipated for TO 0001
- d. Hardware: None anticipated for TO 0001

#### **4. Schedule:**

- a. Overall effort:
  - IDIQ Contract: The contract period of performance (PoP) will be 51 months. The ordering period will be 45 months
  - TO 0001: The PoP for TO 0001 is 15 months, 12 months for technical effort and three (3) months for completing the final reports.
- b. Data Items: Specified on individual CDRL(s)
- c. Software: TBD on individual TO, if applicable
- d. Hardware: TBD on individual TO, if applicable

#### **5. Other Requirements:**

- a. This announcement incorporates FAR and supplement provisions and clauses by reference. The full text of provisions and clauses can be found at Acquisition.gov.
- b. Program security classification: The overall security classification for this effort is Secret, with future potential aspects of the program being classified TOP SECRET (TS). As needed, a revised DD254 will be issued for those elements requiring a TS classification. Schedule and cost information shall be treated as CUI. Offerors must verify their Cognizant Security Office information is current with Defense Counterintelligence and Security Agency (DCSA) at [www.dcsa.mil](http://www.dcsa.mil).
- c. OPSEC: See SOO for OPSEC guidance.
- d. Export Control: Information involved in this research effort is subject to Export Control (International Traffic in Arms Regulation (ITAR) 22 CFR 120-131, or Export Administration Regulations (EAR) 15 CFR 710-774). A Certified DD Form 2345, Militarily Critical Technical Data Agreement, will be required to be submitted with proposal.
- e. Export-Controlled Items: As prescribed by DFARS 225.7901-4, DFARS 252.225-7048, "Export-Controlled Item (JUN 2013)" is contained in this solicitation. This clause shall be contained in ALL resulting contracts.
- f. Contractor Performance Assessment Reporting System (CPARS) will apply to contract awards, specifically at the task order level, resulting from this

BAA Call. Interim and final evaluations of contractor performance for contract awards will be prepared in accordance with AFFARS 5342.1503. The final performance evaluation will be prepared at the time of completion of work. In addition to the final evaluation, interim evaluation(s) will be prepared annually. Awardees will be requested to provide a POC to receive notifications of the opportunity to provide feedback. The contractor will be permitted 14 days to review the document and to submit additional information or a rebutting statement. If agreement cannot be reached between the parties, the matter will be referred to an individual one level above the Contracting Officer, whose decision will be final. Copies of the assessments, contractor responses, and review comments, if any, will be retained as part of the contract file, and may be used to support future award decisions for other procurements.

## **6. Other Information:**

- a. Government Furnished Property (GFP) availability: None anticipated for TO 0001, Yes for future task orders. As a result, appropriate clauses are included in the model contract. In accordance with FAR 45.201(b), the contractor is responsible for all costs related to making the property available for use, such as payment of all transportation, installation or rehabilitation costs.
- b. Base Support / Network Access: None anticipated for TO 0001, Base Support is anticipated for future task orders
  - (1) Available Base Facilities: -Arnold AFB (AFRL & AEDC), TN  
-Eglin AFB, FL  
-NASA Langley, VA  
-Wright-Patterson AFB, OH
- c. Potential Organizational Conflict of Interest: As prescribed in AFFARS 5309.507-2(b), 5352.209-9001, "Potential Organizational Conflict Of Interest (OCT 2019)" is contained in this solicitation.
- d. Multiple awards subject to Fair Opportunity are not anticipated.
- e. Data Rights Desired:
  - (1) Noncommercial Technical Data: Unlimited Rights
  - (2) Noncommercial Computer Software (NCS): Unlimited Rights
  - (3) NCS Documentation: Unlimited Rights
  - (4) Commercial Computer Software Rights: Customary Commercial License consistent with Federal statutes and regulations

Note: Contractor claims to Independent Research and Development (IRAD) data must be substantiated within the proposal for ETHOS BAA Call 003.

The Air Force Research Laboratory is engaged in the discovery, development, and integration of warfighting technologies for our air, space, and cyberspace forces. As such, rights in noncommercial technical data and NCS developed or delivered under this contract are of significant concern to the Government. The Government will therefore evaluate any restrictions on the use of noncommercial technical data, NCS, and NCS documentation which could result in transition difficulty or less-than full and open competition for subsequent development of this technology.

In accordance with DFARS 252.227-7013(b)(1) and 252.227-7014(b)(1), the Government shall receive unlimited rights in all noncommercial technical data and computer software developed exclusively with Government funds.

In accordance with DFARS 252.227-7013(b)(2) and DFARS 252.227-7014(b)(2), the Government shall receive Government Purpose Rights in all noncommercial technical data and computer software developed with mixed funding. "Developed with mixed funding" means, "development was accomplished partially with costs charged to indirect cost pools and/or costs not allocated to a government contract, and partially with costs charged directly to a government contract. Offerors that propose delivery of noncommercial technical data, NCS, or NCS documentation subject to Government Purpose Rights should fully explain how a portion of the data was developed at private expense. Specifically, offerors must explain what noncommercial technical data, NCS, or NCS documentation developed with costs charged to indirect cost pools and/or costs not allocated to a Government contract will be incorporated, how the incorporation will benefit the program, and address whether those portions or processes are segregable.

Offerors that propose delivery of noncommercial technical data with Limited Rights, NCS with Restricted Rights, or NCS documentation with Limited Rights will be considered. Proposals should fully explain what noncommercial technical data, NCS, or NCS documentation developed with costs charged to indirect cost pools and/or costs not allocated to a Government contract will be incorporated and how the incorporation will benefit the program and whether those portions or processes are segregable.

Offerors shall include the data rights assertions as required by DFARS 252.227-7017, Identification and Assertion of Restrictions on the Government's Use, Release, or Disclosure of Technical Data or Computer Software. The assertions list is included in Section K and due at time of proposals. Assertions must be completed with specificity. Each assertion must identify the technical data or computer software to be delivered and the associated item, component, or process developed exclusively or

partially at private expense to which it pertains. Nonconforming data rights assertion lists will not be accepted until submitted in accordance with DFARS 252.227-7017.

Terms used in this section are defined in the clauses at 252.227-7013, Rights in Technical Data-Noncommercial Items, and 252.227-7014, Rights in Noncommercial Computer Software and Noncommercial Computer Software Documentation.

### **THIRD PARTY SOFTWARE (COMMERCIAL AND NONCOMMERCIAL):**

If any such software, noncommercial or commercial, is not reasonably identifiable at proposal submission, it must still be approved by the Contracting Officer prior to incorporation. This obligation to obtain pre-approval by the Contracting Officer, as described above, continues throughout contract administration.

Noncommercial Computer Software:

DFARS 252.227-7014(d) describes requirements for incorporation of third party noncommercial copyrighted computer software and computer software documentation and is incorporated as follows:

The Contractor shall not, without the written approval of the Contracting Officer, incorporate any copyrighted computer software or computer software documentation in the software or documentation to be delivered under this contract unless the Contractor is the copyright owner or has obtained for the Government the license rights necessary to perfect a license or licenses in the deliverable software or documentation of the appropriate scope set forth in DFARS 252.227-7014(b), and prior to delivery of such—

- (1) Computer software, has provided a statement of the license rights obtained in a form acceptable to the Contracting Officer;  
or
- (2) Computer software documentation, has affixed to the transmittal document a statement of the license rights obtained.

In addition, all noncommercial computer software will receive the appropriate level rights set forth in DFARS 252-7014(b), which could include: Unlimited rights, GPR, Restricted Rights, or specifically negotiated license.

## II. Award Information

1. **Anticipated Award Date:** 5 December 2022
2. **Anticipated funding** for the program:
  - a. The Mayhem program estimate is \$334,000,000. In addition, AFRL has estimated \$37,000,000 of Other Government Costs (OGCs), to be awarded under separate contracts, for the Mayhem effort that are associated with wind tunnel tests and other related testing.
  - b. TO 0001 is anticipated to be Cost Plus Fixed Fee and anticipated to be funded at \$24,000,000.

*This funding profile is an estimate only and not a contractual obligation for funding. All funding is subject to change due to Government discretion and availability. Potential offerors should be aware that due to unanticipated budget fluctuations funding in any or all areas may change with little or no notice.*

*Notice to Offeror(s)/Supplier(s): Funds are not presently available for this effort. No award will be made under this solicitation until funds are available. The Government reserves the right to cancel this solicitation, either before or after the closing date. In the event the Government cancels this solicitation, the Government has no obligation to reimburse an offeror for any costs.*

3. **Eligibility Information:** Refer to ETHOS BAA.

## III. Proposal and Submission Information

1. **Overview:** Proposals submitted shall be in accordance with the ETHOS BAA and this Call. *There will be no other solicitation issued in regard to this requirement.* The Government intends to review proposals and award some, all, or none of the proposals received without negotiation/discussion; however, the Government reserves the right to negotiate with those offeror(s) whose proposal is selected for funding.

The Mayhem Proposal Requirements Package will be provided to those contractors that have submitted a request in accordance with the directions outlined on page one of this Call and have the requisite clearance to receive classified information.

Offerors should be alert for any BAA Call amendments that may change proposal requirements or permit extensions to the proposal submission date.

2. **Content and Form of Proposal Submission:** The paragraphs below identify proposal format and content.

a. **General Instructions:**

- i. Offerors should apply the restrictive notice prescribed in FAR 52.215-1(e) Instructions to Offerors—Competitive Acquisition. Offerors should consider proposal instructions contained in the Broad Agency Announcement (BAA) Guide for Industry, which can be accessed at [BAA Guide For Industry \(af.mil\)](http://af.mil).
- ii. Technical/management and cost/business volumes should be submitted and must be valid for 180 days.
- iii. Proposals must reference the announcement number FA8650-17-S-2002, Call 003.
- iv. For classified technical proposals, offerors must include ten (10) CDs in Microsoft Office or Adobe format containing all electronic versions of required submittals.
  - a) The CDs should be labeled with the company name and proposal title.
- v. For unclassified cost/business proposals, the cost file(s) spreadsheets must be in Microsoft Excel and include the formulas for calculating cost element bases (i.e., G&A, O/H, etc.)
- vi. Offerors are advised that only Contracting Officers are legally authorized to contractually bind or otherwise commit the Government.
- vii. The cost of preparing proposals in response to this BAA is not considered an allowable direct charge to any resulting or any other contract; however, it may be an allowable expense to the normal bid and proposal indirect cost as specified in FAR 31.205-18.
- viii. Use the following table to determine the classification level for each section of the Contractor's proposal.

	Tech/Mgmt Volume	Cost/Business Volume
IDIQ Proposal	SECRET	CUI
TO 1 Proposal	SECRET	CUI
TO 2 ROM	SECRET	CUI
TO3 ROM	SECRET	CUI

NOTE: Proposal submissions should follow delivery instructions outlined on page 2 of this document

b. **Offerors must propose each of the following to be considered for an IDIQ and T.O. 0001 award:**

- i. Basic IDIQ
  - a) Basic IDIQ proposal-Technical and Management.
  - b) Basic IDIQ Statement of Work (SOW) in response to SOO

- c) Basic IDIQ proposal-Business Proposal. (Including Subcontracting Plan, if applicable, in accordance with FAR 19.7)
- ii. Task Order (TO) 0001
  - a) TO 0001 Proposal-Technical and Management
  - b) TO 0001 SOW in response to applicable SOO
  - c) TO 0001 Cost (TO Only) and Business Proposal
- iii. Notional Task Order 0002 & 0003 (For each provide the following)
  - a) Technical Effort Rough Orders of Magnitude (ROM)
  - b) Cost ROM

Note: Estimate for the technical effort required to meet objectives and the associated cost for that effort (reference section III.2.c.iii and III.2.d.iv for additional information regarding ROM content)

**c. Technical/Management Volume:**

- i. Page Limitations: The chart below outlines volume page limitations:

Proposal Page Count		
	Tech/Management Volume	Contractor SOW Volume
IDIQ	25	10
TO 0001	25	10
TO 0002	5	N/A
TO 0003	5	N/A

- a) Technical/Management proposals and Statements of Work must be provided in Microsoft Word. Signed pages may be submitted in Adobe.
- b) The Technical/Management Proposal shall be limited to twenty-five (25) pages for the Basic IDIQ and TO 0001; and the Technical/Management Proposal shall be limited to five (5) pages each for Notional TO 0002 and TO 0002 with the pages, prepared and submitted in Microsoft Word format.
- c) Font shall be standard 10-point business font Arial.
- d) Character spacing must be "normal," not condensed in any manner.
- e) Pages shall be single-spaced, single sided (each side counts as one page), 8.5 by 11 inches, with at least one-inch margins on both sides, top and bottom.
- f) All text, including text in tables and charts, must adhere to all font size and line spacing requirements listed herein. Font and line spacing requirements do not have to be followed for illustrations, flowcharts, drawings, and diagrams. These exceptions shall not be used to circumvent formatting requirements and page count limitations by including lengthy narratives in such items.
- g) Pages shall be numbered starting with the cover page being Page 1, and the last page being no greater than Page twenty-five (25).

For Notional TOs 0002 & 0003, pages shall be numbered starting with the cover page being Page 1, and the last page being no greater than Page five (5). The page limitation covers all information including indices, photographs, foldouts (counted as 1 page for each 8.5 by 11 portion) tables, charts, appendices, attachments, resumes, etc.

- h) The proposal page limit does not include the offeror's proposed Statements of Work (SOWs); however, the same formatting rules apply to the SOW, which is limited to ten (10) pages for the basic IDIQ and ten (10) pages for TO 0001.
- i) **Please Note: The Government will check the proposal and SOW for conformance to the stated requirements. Any pages in excess of the stated page limitation after the format check will not be considered for review purposes.**
- ii. The Technical/Management volume(s) for the Basic IDIQ and T.O. 0001 shall include a discussion of the nature and scope of the research and the technical approach the contractor would employ to meet the programmatic requirements. Additional information on prior work in this area, descriptions of available equipment, use of base support (if desired), data and facilities, etc. shall be included. The contractor shall also outline the qualifications of key of personnel who will be participating in this effort.
- iii. TO 0002 and 0003 ROM estimates shall include (but not be limited to) a schedule for the activities to be accomplished, the risk associated with those activities, and any critical assumptions used in developing the estimate.
- iv. The SOWs for the Basic IDIQ and TO 0001 shall detail the technical tasks proposed to be accomplished in meeting the requirements of the SOO. There will be no SOW for TO 0002 and TO 0003 required at this time. ***Do not include any proprietary information in the SOW.*** Refer to the BAA Guide for Industry referenced above to assist in SOW preparation. In addition to the contractor proposed SOW, a Government generated SOW attachment containing additional contracting requirements will be included in any resulting contracts. Any questions concerning the technical proposal or SOW preparation shall be referred to the Contracting POC.

**d. Cost/Business Volume:**

- i. Page Limitations: The chart below outlines volume page limitations

Proposal Page Count	
	Cost/Business Volume
IDIQ*	Unlimited
TO 0001	Unlimited

\*Note: Cost volume is not required for the Basic IDIQ

- ii. The Cost/Business volumes must conform to the following:
- a) See Attachment 1 for the Model Contract. Note that the document awarded may include contract line items (CLINs)/clauses/articles in addition to those in the model(s), and/or some of the CLIN/clauses/articles in the model may be deleted, depending on the specific circumstances of the individual award. Any additions or deletions will be negotiated with the offeror prior to award.
  - b) The Cost/Business volume should contain all business aspects to the proposed contract, such as type of contract, any exceptions to terms and conditions of the announcement including the model contract, any information not technically related, etc. Provide rationale for exceptions.
  - c) Identify any technical data that will be delivered with less than unlimited rights.
  - d) Subcontracting Plans: For efforts to exceed \$750,000, Subcontracting Plans shall be submitted in the cost/business proposal. Reference FAR 19.704 and DFARS 219.704 for subcontracting plan requirements. Small business concerns are exempt from this requirement. If an IDIQ contract arrangement is anticipated, the basis for the subcontracting plan should reflect the entire IDIQ ceiling amount.
  - e) Limitations on Pass-Through Charges: As prescribed in FAR 15.408(n)(1) & 15.408(n)(2), provisions 52.215-22, "Limitations on Pass Through Charges- Identification of Subcontract Effort (Oct 2009)," apply.
  - f) Completed Representations, certifications, and other statements of offerors or respondents (Section K) are due with the proposal. The Section K can be found at Atch 2. Offerors may also be required to submit updated or supplemental Certifications and Representations based on the specifics of their proposal.
  - g) If an offeror proposes the use of Government Furnished Property (GFP), other than GFP identified in the BAA, the offer must specifically identify each piece of GFP in the Cost/Business Proposal and propose and substantiate a rental cost for evaluation purposes in accordance with FAR 45.202. Include the following information in the proposal:
    - (i) A list describing all Government property that the offeror or its subcontractors propose to use on a rent-free basis. The list shall identify the accountable contract under which the property is held and the authorization for its use (from the Contracting Officer having cognizance of the property);
    - (ii) The dates during which the property will be used and, for any property that will be used concurrently in performing two or more contracts, the amounts of the respective uses in sufficient detail to support prorating the rent;

- (iii) The amount of rent that would otherwise be charged in accordance with FAR 52.245-9, Use and Charges; and
- (iv) The voluntary consensus standard or industry leading practices and standards to be used in the management of Government property, or existing property management plans, methods, practices, or procedures for accounting for property.

iii. **Cost Element Breakdown (TO 0001):** Clear, concise, and accurate cost volume reflects the offeror's financial plan for accomplishing the effort contained in the technical volume. As a part of its cost volume, the offeror shall submit the information outlined below, together with supporting breakdowns. All direct costs (labor, material, travel, computer, etc.) as well as labor and overhead rates should be provided by Government Fiscal Year. The supporting schedules may include summary level estimating rationale used to generate the proposed costs. The cost element breakdown should include the following if applicable.

- a) **Direct Labor:** Direct labor should be detailed by number of labor hours by category of labor.
- b) **Labor and Overhead Rates:** Direct labor hours, with their applicable rates, must be broken out and the bases used clearly identified. The source of labor and overhead rates and all pricing factors should be identified. For instance, if a Forward Pricing Rate Agreement (FPRA) is in existence, that should be noted, along with the Administrative Contracting Officer's (ACO's) name and telephone number. If the rates are based on current experience in your organization, provide the historical base used and clearly identify all escalation, by year, applied to derive the proposed rates. If computer usage is determined by a rate, identify the basis used and rationale used to derive the rate.
- c) **Material/Equipment:** List all material/equipment items by type and kind with associated costs and advise if the costs are based on vendor quotes, data and/or engineering estimates; provide copies of vendor quotes, catalog pricing data, Basis of Estimates (BOE's) supporting estimated labor and material costs.
- d) **Subcontractor Costs:** Submit all subcontractor proposals and analyses with your cost proposal (See FAR 15.404-3(b)). If the subcontractor will not submit cost and pricing information to the offeror, this information must be submitted directly to the Government for analysis. On all subcontracts and interdivisional transfers, provide the method of selection used to determine the subcontractor and the proposed contract type of each subcontract. An explanation shall be provided if the offeror proposes a different amount than that quoted by the subcontractor. The offeror's proposal must:

- (i) Identify principal items/services to be subcontracted.
  - (ii) Identify prospective subcontractors and the basis on which they were selected. If non-competitive, provide selected source justification
  - (iii) Identify the type of contractual business arrangement contemplated for the subcontract and provide rationale
  - (iv) Identify the basis for the subcontract costs (e.g., firm quote or engineering estimate, etc.) and contract type.
  - (v) Identify the cost or pricing data submitted by the subcontractor.
  - (vi) Provide an analysis of the proposed subcontract in accordance with FAR 15.404-3(b). Provide an analysis concerning the reasonableness, realism and completeness of each subcontractor's proposal. If the analysis is based on comparison with prior prices, identify the basis on which the prior prices were determined to be reasonable. The analysis should include, but not be limited to, an analysis of: materials, labor, travel, other direct costs and proposed profit or fee rates.
- e) **Special Tooling or Test Equipment:** When special tooling, and/or test equipment is proposed, attach a brief description of items and indicate if they are solely for the performance of this particular contract or project and if they are or are not already available in the offeror's existing facilities. Indicate quantities, unit prices, whether items are to be purchased or fabricated, whether items are of a severable nature and the basis of the price. These items may be included under Direct Material in the summary format.
- f) **Consultants:** When consultants are proposed to be used in the performance of the contract, indicate the specific project or area in which such services are to be used. Identify each consultant, number of hours or days to be used and the consultant's rate per hour or day. State the basis of said rate and give your analysis of the acceptability of the consultant's rate.
- g) **Travel:** Travel costs must be justified and related to the needs of the project. Identify the number of trips, the destination and purpose. Travel costs should be broken out by trip with number of travelers, airfare, per diem, lodging, etc.
- h) **Computer Use:** Detail the amount and kind of computer usage, the cost, and how the costs were derived.
- i) **Facilities Capital Cost of Money:** If Facilities Capital Cost of Money is proposed, a properly executed DD Form 1861 is required.
- j) **Project Funding Profile:** Offerors should include a project funding profile by Government Fiscal Year (GFY) (1 Oct through 30 Sept)

for budgetary purposes. This will enable the Government to easily identify program funding needs by GFY.

- k) If an offeror takes exceptions to the requirements called out in the announcement (e.g., base support, Government-furnished property (GFP), CDRs), the exceptions should be clearly stated in the cost proposal.
  - l) **Forward Pricing Rate Agreements:** Offerors who have forward pricing rate agreements (FPRA's) and forward pricing rate recommendations (FPRR's) should submit them with their proposal.
  - m) Cost/Business proposals have no page limitations.
- iv. **Cost Element Breakdown (TO 0002 & TO 0003):** The contractor shall provide a Rough Order of Magnitude (ROM) cost estimate for the effort outlined in Notional TOs 0002 and 0003 as part of the initial proposal. The ROM should be inclusive of a cost summary page with all applicable cost elements and notional assumptions used to develop the ROM.

Proposal Page Count	
	Cost ROM
TO 0002	5
TO 0003	5

- e. **Proposal Content Summary:** You may be ineligible for award if all requirements of this solicitation are not met on the proposal due date.

## V. Proposal Review Information

1. **Technical Peer or Scientific Review Criteria:** Proposals will be reviewed using the criteria listed below. The technical aspect, which is ranked as the first order of priority, shall be reviewed based on the following criteria that are of descending order of importance

### a. Technical

- i. Technical (IDIQ and Task Order relationship):
  - a) Basic IDIQ Peer or Scientific Review is of equal importance to TO 0001
  - b) Basic IDIQ and TO 0001 Peer or Scientific Review is of greater importance to Notional TO 0002 & 0003
  - c) Notional TO 0002 and 0003 are of equal importance to each other
  - d) Offerors must have a selected Basic IDIQ and TO 0001 to be selected for award
- ii. Technical (IDIQ & TO 0001):

- a) Unique and innovative approach proposed to accomplish the technical objectives. New and creative solutions and/or advances in knowledge, understanding, technology, and the state of the art.
  - b) The offeror's understanding of the scope of the technical effort.
  - c) Soundness of the offeror's technical approach including the Statement of Work, whether the proposal identifies major technical risks, clearly defines feasible mitigation efforts, and demonstrates related experience and qualifications of technical personnel.
  - d) The potential to transition the research and development deliverables to future Government needs. Any proposed restriction on technical data or computer software will be considered.
- iii. Technical (Notional TO 0002 & TO 0003)
- a) Unique and innovative approach proposed to accomplish the technical objectives.
  - b) The offeror's understanding of the scope of the technical effort.
  - c) Soundness of the offeror's technical approach identifying major technical risks and demonstrates related experience and qualifications of technical personnel.

**b. Cost/Price Review Criteria:** The cost/price criterion includes the realism of the proposed cost. Cost/Price is a substantial factor, but ranked as the second order of priority. (If an offeror proposes the use of GFP other than any GFP identified in this BAA, and that proposed GFP provides the offeror an unfair competitive advantage, then FAR 45.202 requires rental equivalent be applied to the Cost Factor for evaluation purposes only). Cost/Price review criteria are only applicable to TO 0001.

## 2. Review and Selection Process

- a. **Categories:** Based on the Peer or Scientific Review, per the ETHOS BAA, FA8650-17-S-2002, proposals will be categorized as Highly Recommended, Selectable, or Not Selectable (see definitions below). The selection of one or more sources for award will be based on the Peer or Scientific Review, as well as importance to agency programs and funding availability.
  - i. **Highly Recommended:** Proposals are recommended for acceptance if sufficient funding is available, and normally are displaced only by other Highly Recommended proposals.
  - ii. **Selectable:** Proposals are recommended for acceptance if sufficient funding is available, but at a lower priority than Highly Recommended Proposals. May require additional development. To ensure a diversity of approaches, a Selectable proposal may be prioritized over a Highly

Recommended proposal if the Selectable proposal presents a unique approach unlike any of the Highly Recommended proposals.

- iii. **Not Selectable:** Even if sufficient funding existed, the proposal should not be funded.

Note: The Government reserves the right to award some, all, or none of proposals. When the Government elects to award only a part of a proposal, the selected part may be categorized as Selectable, though the proposal as a whole may not merit such a categorization.

- b. No other criteria will be used.
- c. Prior to award of a potentially successful offer, the Contracting Officer will make a determination regarding price reasonableness.

## **VI. Award Administration Information**

1. **Award Notices:** Offerors will be notified whether their proposal is recommended for award on or about 120 days after the proposal due date. The notification is not to be construed to mean that any contract award is assured, as availability of funds and successful negotiations are prerequisites to any award.
2. **Administrative and National Policy Requirements:** See Section II.5.
3. **Reporting:** See paragraph II.3., CDRLs.

## **VII. Other Information**

1. **Acquisition of Commercial Items:** Based upon market research, the Government is not using the policies contained in Part 12, Acquisition of Commercial Items, in this solicitation. However, interested offerors may identify to the Contracting Officer their interest and capability to satisfy the Government's requirement with a commercial item within 15 days of this notice.
2. **Support Contractors:** Only Government employees will participate in Peer or Scientific Reviews. Offerors are advised that employees of commercial firms under contract to the Government may be used to administratively process proposals, monitor contract performance, or perform other administrative duties requiring access to other contractors' proprietary information. These support contracts include nondisclosure agreements prohibiting their contractor employees from disclosing any information

submitted by other contractors or using such information for any purpose other than that for which it was furnished.

### 3. **Debriefings:**

**Debriefings:** If a debriefing is requested in accordance with the time guidelines set out in FAR 15.505 and 15.506, a debriefing will be provided, but the debriefing content may vary to be consistent with the procedures that govern BAAs (FAR 35.016).

### 4. **Item Unique Identification and Valuation.** It is DoD policy that contractors shall be required to identify the Government's unit acquisition cost for all deliverable end items for which Item Unique Identification applies. Therefore, proposals must clearly break out the unit acquisition cost for any deliverable items. See DFARS 211.274-3, Policy for Valuation, for more information. (Per DoD, "fully burdened unit costs" to the Government would include all direct, indirect, G&A costs, and an appropriate portion of fee). For more information, see the following website:

<http://www.acq.osd.mil/dpap/pdi/uid/index.html>.

### 5. **Pre-Award Clearance:** Pursuant to FAR 22.805, a pre-award clearance must be obtained from the U.S. Department Of Labor, Employment Standards Administration, Office Of Federal Contract Compliance Program's (OFCCP) prior to award of a contract (or subcontract) of \$10,000,000 or more unless the contractor is listed in OFCCP's National Pre-award Registry [https://ofccp.dol-esa.gov/preaward/pa\\_reg.html](https://ofccp.dol-esa.gov/preaward/pa_reg.html). Award may be delayed if you and proposed subcontractors meeting the dollar threshold above are not currently listed in the registry and the Contracting Officer must request a pre-award clearance from the OFCCP.

### 6. **Updates of Publicly Available Information Regarding Responsibility Matters:** Any contract or assistance award that exceeds \$600,000; and when offeror checked "has" in paragraph (b) of the provision FAR 52.209-7, shall contain the clause/article, FAR 52.209-9 "Updates of Publicly Available Information Regarding Responsibility Matters."

### 7. **Proposal Reminders:** You may be ineligible for award if all requirements of this solicitation are not met on the proposal due date.

a. Unclassified proposals are due to the Contracting POC according to the delivery instructions on page 2 of this Call. Classified proposals are to be submitted to the POCs via mail according to the delivery instructions on page 2 of this Call.

b. Proposals are due no later than the due date and time specified in this announcement.

c. Proposal page limits are strictly enforced.

- d. The Cost/Business Proposal must contain all information described in the Content and Form of Proposal Submission Section.
- e. Offerors other than small businesses must include a subcontracting plan.
- f. Proposals must be submitted in the format specified.
- g. Offerors who have Forward Pricing Rate Agreements (FPRA's) or Forward Pricing Rate Recommendations (FPRR's) should submit them with their proposal.
- h. If a DD254 is applicable, offerors must verify their Cognizant Security Office information is current with Defense Counterintelligence and Security Agency (DCSA) at [www.dcsa.mil](http://www.dcsa.mil).
- i. This effort is subject to export control, offerors must submit a Certified DD Form 2345, Militarily Critical Technical Data Agreement, with proposal.

## **ATTACHMENTS**

List of Attachments:

1. Model Contract with Section K
2. DD 254 (See Model Contract)
3. CDRLs (See Model Contract)
4. Supplemental SOW (See Model Contract)
5. Statement of Objective(s)(Disseminated by request only)