

DRAFT 1-Step Broad Agency Announcement

Overview Information

Purpose: THIS IS NOT A REQUEST FOR COMPETITIVE PROPOSALS. This is a Draft Broad Agency Announcement (BAA) IAW FAR 5.205(c). The Air Force anticipates issuing a BAA for research and development on the subject of Advanced Turbine Technologies for Affordable Mission-capability (ATTAM) Phase I on FedBizOpps.gov (<https://www.fbo.gov/>) approximately January 2018. The following details of the anticipated solicitation are provided for your review/comments/questions, are subject to change, and are for planning purposes/comments/questions only.

Please pay close attention to the individual Task Order(s) Statement of Objectives (SOOs) as options are the basis of the requirement(s).

NAICS Code: The NAICS Code for this acquisition is 541715 (Research and Development in the Physical, Engineering, and Life Sciences (except 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, Aerospace Systems Directorate (AFRL/RQ)

Broad Agency Announcement Title: Advanced Turbine Technologies for Affordable Mission-capability (ATTAM) Phase I

Broad Agency Announcement Type: DRAFT Announcement.

Broad Agency Announcement Number: FA8650-18-S-2002.

Proposal Due Date and Time: NO PROPOSALS REQUESTED AT THIS TIME.

Submission: Upon issuance of the BAA, proposals must be submitted to the Contracting POC: Ms. Connie Grounds, AFRL/RQKPB, Bldg 45, 2130 Eighth St., Wright-Patterson AFB, OH 45433-7541.

Solicitation Request: Upon issuance of the BAA, Air Force Research Laboratory, Aerospace Systems Directorate, Turbine Engine Division (AFRL/RQT), Wright Patterson Air Force Base will be 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 BAA will generally be single award Indefinite Delivery Indefinite Quantity (ID/IQ) contracts with initial

orders with the following contract types included in the ID/IQ: Cost-Plus Fixed Fee, Cost Share and Cost Reimbursement. In accordance with FAR 16.301-3(a)(3) Cost type contracts require successful offerors to have an accounting system considered adequate for tracking costs applicable to the contract.

Estimated Program Cost: The ID/IQ contracts will have a shared ceiling value of \$725,000,000. Individual ID/IQ ceilings will vary by contract. Total anticipated funding for initial awards is \$214,130,000 to cover all awarded initial task orders.

Anticipated Number of Awards: The Air Force anticipates awarding approximately 10 ID/IQ single award contracts 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 the desired work and funding fluctuations.

Brief Program Summary: Air Force Research Laboratory, Aerospace Systems Directorate, Turbine Engine Division (AFRL/RQT) is announcing to industry its intent to solicit proposals under this Broad Agency Announcement (BAA). The over-arching strategy of this BAA involves the use of a closed BAA which spans the critical technology needs of the six (6) Office of the Secretary of Defense (OSD) Capability Areas in which technologies are distributed among four Grand Challenge research areas listed below.

- 1. Propulsion, Power and Thermal Technologies**
- 2. Small and Medium Propulsion Technologies**
- 3. Sustainment and Affordable Technologies**
- 4. Innovation Architectures and Technologies**

Communication Between Prospective Offerors and Government

Representatives: Dialogue between prospective offerors and Government representatives is encouraged until submission of proposals. If not proprietary, questions and responses may be published via an amendment to this announcement or addressed in the anticipated BAA 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.

AFRL/RQT will be providing an opportunity for Industry Q&A in response to the Draft BAA. This will be held 17 November 2017 (8:00 am to 12:00 PM) and 20 November 2017 (1:00 pm to 5:00 pm). The format will be a teleconference and there will be 30 minute time slots. Those potential offerors interested should email AFRL.RQT.ATTAM@US.AF.MIL to arrange their time slot.

Address technical and contracting questions to the Contracting POC: Mr Randall Wallace, AFRL/RQKPB, Bldg 45, 2130 Eighth Street, WPAFB, OH, 45433-7801, (937) 713-9820, Randall.Wallace.2@us.af.mil or Ms Constance Grounds, AFRL/RQKPB, Bldg 45, 2310 Eighth Street, WPAFB, OH, 45433-7801, (937) 713-9958, Constance.Grounds@us.af.mil.

Full Text Announcement

I. Program Description: Air Force Research Laboratory, Aerospace Systems Directorate, Turbine Engine Division (AFRL/RQT) is soliciting technical and cost proposals on the following research effort: The Advanced Turbine Technologies for Affordable Mission-Capability (ATTAM) Phase I program is a capability based planning and execution development construct for turbine technology for the Air Force. The mission of the ATTAM Phase I program is to develop, demonstrate and transition advanced turbine propulsion, power and thermal technologies that provides improvement in affordable mission capability. This approach extends to a range of legacy, emerging, and future military propulsion, power and thermal technology needs in multiple applications. To achieve these goals, the Air Force Research Laboratory's (AFRL) Aerospace Systems Directorate (RQ) has committed resources to the development of an advanced technology base for aero-thermodynamics and innovative structures, the development of advanced components, and the assessment and verification of these components in Technology Readiness Level (TRL) 6/Manufacturing Readiness Level (MRL) 6 demonstrator core engines and rig tests. Major U.S. turbine engine and weapon system contractors have planned their future turbo-propulsion research and development consistent with the goals of the ATTAM Phase I Program in the DoD-coordinated Versatile Affordable Advanced Turbine Engines (VAATE)/ATTAM Advanced Turbo Propulsion Plan (ATPP).

See attachment 3 for IDIQ Statement of Work (SOW).

- 1. Statement of Objective/Description of Technical Areas:** Efforts sought under this announcement should address turbine engine technologies necessary to meet the ATTAM Phase I goals for the 2025 timeframe. Technologies proposed may apply to more than one of the research areas. **SOOs associated with initial task orders for this program must be requested from the Government contracting POC. Upon initial request, please submit a copy of your approved DD Form 2345, Militarily Critical Technical Data Agreement. You shall have a DoD-coordinated ATPP or have a documented relationship with a company with a DoD-coordinated ATPP (for information regarding attaining an approved ATPP contact daniel.thomson@us.af.mil). The Government will then send the requested SOO via secure channels to the potential offeror(s).**

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 the overall contract ceiling amount.

3. **Deliverable Items:**

- a. Data Items: See Attachment 2 for the DD Forms 1423-1, Contract Data Requirements List (CDRL). CDRLs will be an attachment to each ID/IQ Contract and will be determined based on the ceiling value; appropriate CDRLs will then be applied to individual task orders based on the dollar value and technical content of the task order. Offerors shall include the appropriate CDRLs in each task order proposal.
- b. Software: To be determined (TBD) on individual task orders. If software is required, a format will be determined on individual task orders. All software developed or acquired for the task orders shall be delivered by the end of the technical effort.
- c. Hardware: TBD on individual task orders. All hardware developed or acquired for the task orders, and not consumed or expended, shall be delivered by the end of the technical effort. All hardware deliverables and contractor acquired property will be subject to the requirements of DFARS 252.211-7003, Item Unique Identification and Valuation.

4. **Schedule:**

- a. ID/IQ Contract: The contract period of performance will be 96 months. The ordering period will be 60 months.
- b. Task Orders: The period of performance is based upon available funding and technical effort. Note: The period of performance and available funding for the initial task orders are identified in the SOOs.
- c. Data Items: Specified on individual CDRLs and SOOs.
- d. Software: If software is required, the final version will be delivered no later than the end of the technical effort.
- e. Hardware: If hardware is required, delivery will be no later than the end of the technical effort.

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 <http://farsite.hill.af.mil/>.
- b. Program Security Classification: This effort may include access and storage of classified material. See Attachment 5, DD Form 254, Contract Security Classification Specification, classified at the SECRET level, for additional information. As a result, a SECRET facility and storage clearance will be required and the proposal should discuss appropriate personnel and

security clearance. The contractor may require access to classified data up to and including SECRET in support of this work effort. Any extracts or use of such data will require the contractor to apply derivative classification and markings consistent with the source from which the extracts were made. Offerors planning to propose classified efforts are required to possess the necessary personnel and facilities to support the applicable level of security classification. **Do not include any classified information in the proposal.** The security classification guidance for this work will be governed by the Air Breathing Turbine Engine Aircraft and Missile Propulsion Security Classification Guide dated 21 Aug 2017. Offerors must verify their Cognizant Security Office information is current with Defense Security Service (DSS) at www.dss.mil.

- c. Safety: The system safety standard practice identifies the Department of Defense (DoD) Systems Engineering (SE) approach to eliminating hazards, where possible, and minimizing risks where those hazards cannot be eliminated. The design goal shall be to eliminate all hazards. The contractor shall consider system safety as part of the developing/evaluating these technologies and recommend appropriate system safety analyses in the Final Report. Use Mil-Std 882E, DoD Standard Practice System Safety, as applicable.
- d. OPSEC: See the attached ID/IQ SOW, the SOOs, and CDRL A018 for OPSEC requirements.
- e. Export Control: Information involved in this research effort **may** be 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 the proposal.
- f. Export-Controlled Items: As prescribed by DFARS 225.7901-4, DFARS 252.225-7048, "Export-Controlled Items (JUN 2013)" is contained in this solicitation. This clause shall be contained in ALL resulting contracts.

6. Other Information:

- a. Government Furnished Property (GFP) availability: GFP availability for initial task orders must be coordinated with the Technical POC, Dr. Monica Stucke (937) 255-6692, Monica.Stucke@us.af.mil), prior to submission of proposals. Documentation of this coordination with Dr. Stucke must be included in the task order proposal. If the use of GFP from a source other than AFRL/RQT is part of the offeror's plan, a coordination letter identifying availability of the GFP from that government agency must be included in the task order proposal. Specific details regarding use of GFP is not considered final until completion of contract negotiations. GFP availability is TBD on individual task orders. Category I petroleum products may be supplied as GFP, if it is in the best interest of the Government to do so. Government owned turbine engine hardware and components developed under existing or previous contracts may be

furnished, if available, and if their use is necessary and practical in the performance of technical tasks under this effort. The Air Force research facility manuals, drawings, and other information will be furnished to the offerors on request. 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/AFRL Test Facilities: Base Support and Network Access will not be provided. Use of Air Force test facilities, when available, is encouraged if the offeror proposes experimental verification. If the offeror intends to use such facilities in the Orders, they must ensure that the proper engineering coordination is completed prior to proposal submittal. Following are the established guidelines for the proper engineering coordination between the Government and Industry regarding the proposed use of Turbine Engine Division research facilities and other Government facilities.

General Guidelines: The Turbine Engine Division has 15 facilities on site in 10 different buildings within the Aerospace Directorate complex as follows:

- Combustion and Laser Diagnostics Research Complex (CLDRC)
- Compressor Aero Research Laboratory (CARL)
- Compressor Research Facility (CRF)
- Detonation Engine Research Facility (DERF)
- Engine Environment Research Facility (EERF)
- Heat-transfer Aerothermal Laboratory (HAL)
- Heat Flux Instrumentation Lab (HFIL)
- High-Pressure Combustor Research Facility (HPCRF)
- Low-Pressure Combustor Research Complex (LPCRC)
- Low Speed Wind Tunnel Facility (LSWTF)
- Mechanical Systems Research Laboratory (MSRL)
- National Aerospace Fuels Research Complex (NAFRC)
- Small Engine Research Laboratory (SERL)
- Turbine Engine Fatigue Facility (TEFF)
- Turbine Research Facility (TRF)

One-page descriptions of these R&D facilities can be found at:
<http://www.wpafb.af.mil/Welcome/Fact-Sheets/Display/Article/834211>. For more information, contact Dr Robert Hancock at (937) 255-6814 or robert.hancock.3@us.af.mil.

It is the intention of the Turbine Engine Division to make equally available these facilities and their associated government and/or contractor operational work force to all offerors of FA8650-18-S-2002. The availability is subject to concurrence from the responsible facility manager on individual task orders.

Any hardware to adapt proposed test vehicle to the facility, and any modifications to the existing facility necessary to accommodate proposed tests, must be coordinated with the facility manager and be included in the offerors cost proposal.

Concurrence between offerors and facility managers to use Turbine Engine Division facilities must be documented in writing by the facility manager. That documentation must be provided as part of the offerors task order proposal.

To assure facility modifications and availability are identified in a timely manner so that all offerors have equal opportunity to Turbine Engine Division Facilities for the initial orders, requests to Robert Hancock regarding their use must be submitted one month prior to the date proposals are due. Coordination letters will be completed by the AFRL facility manager after this date and provided to the offeror to include in their proposals.

Specific details regarding use of Turbine Engine Division Facilities are not considered final until completion of contract negotiations.

If the use of government facilities other than AFRL facilities is part of the offeror's plan, a coordination letter identifying availability of the facility and the cost estimate to perform the work from that government agency should be included in the proposal. Since this cost will be directly funded from AFRL to the other government agency, the cost of performing the tasks will be reduced from the budget identified in the SOO.

- c. Multiple awards subject to Fair Opportunity are not anticipated.
- d. Data Rights Desired:
 - (1) Technical Data: Unlimited Rights
 - (2) Non-Commercial Software (NCS): Unlimited Rights
 - (3) NCS Documentation: Unlimited Rights
 - (4) Commercial Computer Software Rights: Customary License

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 technical data and NCS developed or delivered under this contract are of significant concern to the Government. The Government will therefore carefully consider any restrictions on the use of 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 exchange for paying for development of the data, the Government expects technical data, NCS, and NCS documentation developed entirely at Government expense to be delivered with Unlimited Rights.

Technical data, NCS, and NCS documentation developed with mixed funding are expected to be delivered with at least Government Purpose Rights. Offers that propose delivery of technical data, NCS, or NCS documentation subject to Government Purpose Rights should fully explain how the data was developed at private expense. Specifically, offers must explain what 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 technical data, NCS, or NCS documentation subject to Limited Rights, Restricted Rights, or Specifically Negotiated License Rights will be considered. Proposals should fully explain what 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 for initial task order(s). The assertions list is included in Section K and due at time of proposals. Assertions must be completed with specificity. Each assertion must identify both the data and each such item, component, or process listed. Nonconforming assertions lists will be rejected.

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):

DFARS 252.227-7014(d) describes requirements for incorporation of third party computer software. Any third party software (commercial and noncommercial) to be incorporated into a deliverable must be clearly identified in the proposal. Prior to delivery of any third party software,

the contractor will obtain an appropriate license for the Government, and the written approval of the contracting officer.

Any third party software to be delivered to the Government that are not reasonably identifiable at proposal submission, must still be approved by the contracting officer prior to incorporation into a system deliverable. This obligation to obtain pre-approval by the contracting officer, as described above, continues throughout contract administration.

The Government will neither accept nor execute WAWF requirements for the software deliverables until the Contractor obtains from all third party software suppliers and/or vendors (Licensor) licenses that comply with the following terms and conditions for the Government (Licensee):

1. The license shall not subject the Government to liability that is indefinite or indeterminate, such as an indemnification clause, as it would constitute an obligation in advance or in excess of an appropriation and violate the Anti-Deficiency Act.
2. The license shall not create a contingent liability for the Government. This includes, but is not limited to: unilateral price increases, automatic assessment of charges, and automatic renewal of the license.
3. The license shall be governed by Federal Statutes, Case Law, and Federal Regulations, and shall not be subject to the laws or jurisdiction of any municipality, state, or foreign country.
4. The license shall not include non-substitution language that would preclude or limit the Government from using another vendor/reseller and/or product to fulfill Government requirements.
5. The license shall not comment on entitlement to attorney fees.
6. The Licensor shall not have the authority to unilaterally terminate the license. All remedies available shall be consistent with the Disputes Clause in the underlying basic contract.
7. The Licensor shall not have the right to enter the premise or monitor the networks of Licensee for the purpose of auditing the use of the license.
8. The Licensor shall not use any injunctive relief clauses as the Licensor cannot prevent the Licensee from performing mission operations.
9. The Licensor shall not have the authority to control any litigation between a third party and the Licensee.

10. The Licensor shall not use the fact that the Licensee is using the Licensor's products in any notification to the public (e.g., no publicity rights permitted).

[IF APPLICABLE] Additionally, the Contractor may be required to obtain licenses that comply with the following terms and conditions, based on the Government's needs:

1. [IF APPLICABLE] The license shall not disclaim all warranties through use of an "as is" provision.
2. [IF APPLICABLE] The license shall neither restrict the Government from using the product at various sites nor limit use of the product by various Government agencies or third parties performing work on behalf of the Air Force under the [PROGRAM NAME]. In performance of the [PROGRAM NAME], Government personnel as well as Government contractors may use the software.
3. [IF APPLICABLE] [The license shall not limit the Government's use of the software at other Government and Government contractor sites.] [The license shall authorize the Government to use the software at the following sites: [list]].
4. [IF APPLICABLE] The license shall not require automatic updates or give Licensor the authority to unilaterally replace the software.
5. [IF APPLICABLE] The Licensee shall not be restricted from copying or embedding elements of accessible code into other applications (e.g., nesting code, derivative works).

The Offeror may obtain agreement from the Licensor to insert the clause below to its respective software licenses intended to be transferred to the Government:

"In the event that any of the provisions of the [Software License] are determined to be inconsistent with Federal law and/or do not otherwise satisfy the Government's needs, the parties to the [Software License] hereby agree that such provisions shall be null and void as they pertain to the Government. Specifically, the following sections are hereby deleted from the [Software License] [and/or amended as indicated below]: [Section X: deleted; Section Y: amended as follows [...]]"

If the Licensor will not agree to the terms and conditions cited herein and/or as contained in DFARS 227.72, the Contractor shall retain the current license on behalf of and for the benefit of the US Government if permissible under its license and such use will not subject the Government to the terms of the license.

The Contractor shall provide documentation to clearly correlate or map software license(s) to:

- a) Contract Line Item Numbers (CLINS);
- b) Contract Deliverables (CDRLS);
- c) Paragraphs in the Statement of Work (SOW); and
- d) Portions of any functional block diagrams and/or system architecture diagrams, so that it can be readily determined where certain commercial software corresponding to certain software license agreement(s) are physically located on the system to be delivered under the contract.

II. Award Information

1. **Anticipated Award Date:** No proposals are requested at this time
2. **Anticipated contract ceiling funding** for the ID/IQ contract program including potential industry cost share (not per contract) (\$K):

FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Total (K)
\$8,015	\$62,432	\$94,097	\$96,727	\$97,712	\$90,125	\$91,300	\$91,900	\$92,692	\$725,000

Note: 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.

3. **Anticipated Total Funding for FA8650-18-S-2002 ATTAM Phase I, Initial Orders:** Total Government funding for initial awards in this BAA is \$214,131,000 to cover all initial task orders. See the SOOs for the budget per initial task orders.

FY18	FY19	FY20	FY21	FY22	FY23	FY24	Total (K)
\$738	\$17,432	\$35,097	\$40,727	\$44,712	\$39,125	\$36,300	\$214,131

Note: This funding profile is an estimate only and is not a promise for funding as 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.

III. Eligibility Information

1. **Eligible Offeror:** This is an unrestricted solicitation. Small businesses are encouraged to propose on all or part of this solicitation. Prospective offerors shall have a DoD-coordinated VAATE Advance Turbo Propulsion Plan (ATPP), shall develop an ATPP and receive government approval prior to proposal submittal, or shall have a documented working relationship with a company with a DoD-coordinated VAATE ATPP. To document a working relationship, a prospective offeror must obtain a letter from a company with a government approved ATPP detailing how research proposed by the offeror fits into the company's ATPP. This letter should be submitted with the proposal and does not count against the page count limit. For questions regarding the ATPP approval, contact the PCO.
2. **Cost Sharing or Matching:** Cost Sharing is highly encouraged, but not required.
3. **Federally Funded Research and Development Centers:** The following guidance is provided for Federally Funded Research and Development Centers (FFRDCs) contemplating submitting a proposal, as either a prime or subcontractor. FAR 35.017-1(c)(4) prohibits an FFRDC from competing with any non-FFRDC concern in response to a Federal agency request for proposal for other than the operation of an FFRDC (with exceptions stated in DFARS 235.017-1(c)(4)). There is no regulation prohibiting an FFRDC from responding to a solicitation. However, the FFRDC's sponsoring agency must first make a determination that the effort being proposed falls within the purpose, mission, general scope of effort, or special competency of the FFRDC, and that determination must be included in the FFRDC's proposal. In addition, AFRL must make a determination that the work proposed would not place the FFRDC in direct competition with domestic private industry. Only after these determinations are made, would a determination be made concerning the FFRDC's eligibility to receive an award.
4. **Government Agencies:** If a Government agency is interested in performing work, contact the Program Manager identified in the BAA. If those discussions result in a mutual interest to pursue your agency's participation, the effort will be pursued independent of this announcement.
5. **Other:**
 - a. Foreign participation: No foreign participation at the prime contractor level will be permitted.
 - b. This acquisition involves data that are subject to export control laws and regulations. Only contractors who are registered and certified with the Defense Logistics Services Center (DLSC) and have a legitimate business purpose may participate in this solicitation. Contact the Defense Logistics Services Center, 74 Washington Avenue N., Battle Creek, Michigan 49017-3084 (1-800-352-3572) for further information on the certification process. You must submit a copy of your approved DD Form 2345, Militarily Critical Technical Data Agreement, with your proposal.
 - c. There are no limits on the number of proposals an offeror may submit.

- d. You may be ineligible for award if all requirements of this solicitation are not met on the proposal due date as identified above.

IV. Proposal and Submission Information

1. **Overview:** Proposals submitted shall be in accordance with this announcement. **There will be no other solicitation issued in regard to this requirement.** The Government intends to evaluate 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 ID/IQ technical proposal and an initial task order(s) is selected for funding.

Offerors should be alert for any BAA 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 on line at <http://www.wpafb.af.mil/Portals/60/documents/afrl/AFRL-broad-agency-announcement-guide.pdf>
This guide is specifically designed to assist the offeror in understanding the BAA proposal process.
 - ii. To be eligible for award the contract must successfully propose the basic IDIQ and at least one task order.
 - iii. Technical/management and cost/business volumes should be submitted in **separate volumes** and must be valid for 180 days.
 - iv. Proposals must reference the announcement number FA8650-18-S-2002 and relevant research area(s) as found in the SOOs. The contractor must propose for the basic IDIQ and at least 1 (one) task order.
 - v. Offerors must submit 1 (one) original and 10 (ten) hard copies of their proposals to the Contracting POC.
 - vi. Offerors must include 5 (five) CDs in Microsoft Office or Adobe format containing all electronic versions of required submittals. All electronic versions must match the hard copies. If there is a discrepancy between hard copies and electronic copies, the hard copies will take precedence.

- a) 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.)
- b) The proposed task order Statement of Work must be in Microsoft Word.
- c) The proposal must include the Government Test Facility coordination letter (if applicable).
- d) The CDs should be labeled with the company name and proposal title.

vii. Offerors are advised that only Contracting Officers are legally authorized to contractually bind or otherwise commit the Government.

viii. 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.

ix. **No classified technical proposals or cost volumes are expected. In the rare case where an offeror has a need to submit a classified appendix, please contact the technical POC, Dr. Monica Stucke (monica.stucke@us.af.mil), for delivery instructions.**

b. **Offerors must propose each of the following to be considered for an ID/IQ and initial task order award. The contractor must propose to the IDIQ SOW and at least one task order SOO:**

- i. Cover Page: The cover page shall include the BAA title and reference number, the name and telephone number for the principal points of contact (both technical and contractual), the offeror's CAGE code, and any other information that identifies the proposal. The cover page must also contain the proprietary data disclosure statement, if applicable. The following are required for the proposal to be valid:
- ii. Basic ID/IQ
 - a) Basic ID/IQ proposal-Technical and Management
 - b) Identify any Basic ID/IQ Statement of Work (SOW) paragraphs the proposer **does not** intend to pursue during the ID/IQ period of performance. These paragraphs will not be included in the resulting ID/IQ contract.
 - c) Basic ID/IQ Business Proposal (Including Subcontracting Plan, if applicable, in accordance with FAR 19.7. Submit the Comprehensive Subcontracting Plan, if applicable. If an Individual Subcontracting Plan or Individual/Master Subcontracting Plan will be utilized, the Subcontracting Plan will not be required until the government provides the contractors with their IDIQ ceiling value.)
 - d) A cost proposal is not applicable.

- iii. Task Order (TO) 0001
 - a) TO 0001 Proposal-Technical and Management
 - b) TO 0001 SOW in response to applicable SOO
 - c) TO 0001 Cost and Business Proposal
- iv. TO 0002 (if applicable)
 - a) TO 0002 Proposal-Technical and Management
 - b) TO 0002 SOW in response to applicable SOO
 - c) TO 0002 Cost and Business Proposal

c. **Technical/Management Proposals:**

- i. Page Limitations: The following describes proposal page limitations:
 - a) The Technical/Management Proposal shall be limited to **25 pages total for the ID/IQ Basic Proposal**. The Technical/Management Proposal **page limit for the task orders is identified in the SOOs**. Technical/Management proposals must be provided in Microsoft Word or Adobe format. Signed pages may be submitted in Adobe. The Statement of Work must be provided in Microsoft Word.
 - b) Font shall be standard 10-point business font Arial.
 - c) Character spacing must be "normal," not condensed in any manner.
 - d) Pages shall be double-spaced (must use standard double-space function in Microsoft Word), double sided (each side counts as one page), 8.5 by 11 inches, with at least one-inch margins on both sides, top and bottom.
 - e) 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.
 - f) Pages shall be numbered starting with the cover page being Page 1, and the last page being no greater than the page limitations identified in paragraph (a) above. The page limitation covers all information including indices, photographs, foldouts (counted as one page for each 8.5 by 11 portion) tables, charts, appendices, attachments, resumes, etc.
 - g) Include documentation regarding the following (if applicable):
 - 1. A list of hazardous materials applicable to proposed task order(s).
 - 2. A list of Government Furnished Property (GFP) being requested for use on the proposed task order(s).

3. A letter documenting the VAATE working relationship between the offeror and a company with an ATPP (if necessary).
4. A letter documenting proper engineering coordination between the Government and Industry regarding the proposed use of AFRL Test Facilities and/or other Government facilities.

h) The proposal page limit **does not** include the offeror's proposed T.O. Statement of Work (SOW); however, the same formatting rules apply to the SOW, which does not have a page limitation.

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 evaluation purposes.**

ii. The Technical/Management proposals shall include:

- a. **ID/IQ Basic:** The proposal shall include the following for this volume:
 - (1) A general discussion of the nature and scope of the research and the technical approach as it applies to the ATTAM Phase I research areas and the SOW. The SOW contains all four ATTAM Phase I research areas. Offerors shall only propose research efforts in areas which are supported by their ATPP (or potential revisions as approved by AFRL/RQT). In addition to the contractor proposed SOW, a Government generated SOW attachment containing additional contracting requirements will be included in any resulting contracts. The SOW attachment is included as Attachment 4 to this BAA.
 - (2) An overview of the offeror's organization and management structure to demonstrate capability to work various efforts in support of the ATTAM Phase I program.
- b. **Task Orders:** The proposal shall include the following for this volume:
 - (1) A discussion of the nature and scope of the research and the technical approach specific to the applicable ATTAM Phase I research area and product(s). Additional information on prior work in this area should be part of the technical proposal.
 - (2) Descriptions of available equipment, data and facilities and resumes of personnel who will be participating in this effort should be included as attachments to the technical proposal.
 - (3) Each proposal shall also include a list of hazardous materials to be used under the proposed effort and their application, and the

offeror shall identify any potentially significant environmental issues associated with the proposed effort.

(4) This volumes shall include a SOW detailing the technical tasks proposed to be accomplished under the proposed effort and suitable for contract incorporation. **Do not include any proprietary or classified information in the SOW.** Refer to the BAA Guide for Industry referenced above to assist in SOW preparation.

iii. Any questions concerning the technical proposals or SOW preparation shall be referred to the Contracting POC.

d. Cost/Business Proposal:

i. Separate the proposal into a business section and cost section. (Note that any option task(s) shall be priced separately.) Adequate price competition is anticipated.

a) A model contract is anticipated to be attached to the BAA. Note that the document awarded may add or delete contract line items (CLINs) and/or clauses in addition to those in the model depending on the specific circumstances of the individual award. Any additions or deletions will be negotiated with the offeror prior to award. **Cost proposals are not applicable to ID/IQ contract; cost proposals are only applicable to the task orders.**

b) The business section 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) Associate Contractor Agreements (ACAs): ACAs are agreements between contractors working on Government contracts that require them to share information, data, technical knowledge, expertise, or resources. The contracting officer may require ACAs when contractors working on separate Government task orders must cooperate, share resources or otherwise jointly participate in working on task orders or projects. Prime contractor to subcontractor relationships do not constitute ACAs. For each task order, the contracting officer will identify associate contractors with whom agreements are required. ACAs are not required for initial task orders.

d) Identify any technical data that will be delivered with less than unlimited rights.

- e) Subcontracting Plans: For ID/IQs that exceed \$700,000, see paragraph IV(2)(b)(ii)(c). Small business concerns are exempt from this requirement.
- f) Limitations on Pass-Through Charges: As prescribed in FAR 15.408(n)(1) and 15.408(n)(2), provision 52.215-22, "Limitations on Pass Through Charges- Identification of Subcontract Effort (Oct 2009)," applies.
- g) Completed Certifications and Representations (Section K) are due with the proposal. Certifications and Representations (Section K) will be attached to the formal BAA. Offerors may also be required to submit updated or supplemental Certifications and Representations based on the specifics of their proposal.
- h) If an offeror proposes the use of Government Furnished Property (GFP), other than GFP identified in the SOOs, 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.
- ii **Cost Element Breakdown:** Clear, concise, and accurate cost proposals reflect the offeror's financial plan for accomplishing the effort contained in the technical proposal. As a part of its cost proposal, the offeror shall submit the information outlined below, together with supporting breakdowns and schedules. All direct costs (labor, material, travel, computer, etc.) as well as labor and overhead rates should be provided by task by contractor fiscal year (CFY). Detailed cost element breakdowns by Government Fiscal Year or calendar year are also required. The supporting schedules may include summary level estimating rationale used to generate the proposed costs. The SOOs provide information regarding anticipated Government budget. The cost element breakdown(s) 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 and overhead, 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, catalog data, and/or engineering estimates; provide copies of vendor quotes, catalog pricing data, and/or engineering estimates or historical data.
- 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).
 - (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 hours and 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), CDRLs), the exceptions should be clearly stated in the cost proposal.
- l) **Forward Pricing Rate Agreements:** Offerors who have forward pricing rate agreements (FPRAs) and forward pricing rate recommendations (FPRRs) should submit them with their proposal.
- m) **Cost/Business proposals have no page limitations.**

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

3. **Funding Restrictions:** None.

V. Proposal Review Information

- 1. Peer or Scientific Review Criteria:** BAA proposals will be reviewed using the criteria listed below. **SOO Options will be evaluated against the criteria listed in the SOO.**
- 2. Technical:** 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. ID/IQ Contract Proposals (Proposals shall identify relevant research areas):**
 - (1) The unique and innovative approach to accomplish technical objectives of all proposed research areas. New and creative solutions and/or advances in knowledge, understanding, technology, and the state of the art.
 - (2) Soundness of the offeror's approach, including understanding of the overall scope of work, technical, schedule and risk management processes for achieving the technical objectives of the proposed research areas, including achievement of the 2025 AFRL Product Goals when applicable.
 - (3) The effective management structure and processes to ensure technical, schedule and risk management processes for achieving the technical objectives of each effort and competent, experienced personnel are available for all proposed research areas.
 - (4) The identification of necessary research, test, laboratory or shop facilities to support efforts of all proposed research areas.
 - b. Task Order(s):** 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.
 - (1) The unique and innovative approach to accomplish technical objectives of all proposed research areas. New and creative solutions and/or advances in knowledge, understanding, technology, and the state of the art.
 - (2) Soundness of the offeror's approach, including understanding of the overall scope of work, technical, schedule and risk management processes for achieving the technical objectives of the proposed research areas, including achievement of the 2025 AFRL Product Goals when applicable.
 - (3) The effective management structure and processes to ensure technical, schedule and risk management processes for achieving the technical objectives of each effort and competent, experienced personnel are available for all proposed research areas.

- (4) The identification of necessary research, test, laboratory or shop facilities to support efforts of all proposed research areas.
- (5) 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.

3. Cost/Price/Fund Availability – The Cost/Price criterion includes the reasonableness and realism of the proposed cost and fee and consideration of proposed budgets and funding profiles. 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).

4. Review and Selection Process

- a. **Categories:** Based on the Peer or Scientific Review, proposals will be categorized as 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. **A combination of ID/IQ contract and one initial task order must be accepted in order to be considered for award.**
 - i. **Selectable:** Proposals are recommended for acceptance if sufficient funding is available.
 - ii. **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 task order price reasonableness.

VI. Award Administration Information

1. **Award Notices:** Offerors will be notified whether their proposal is recommended for award. The notification is not to be construed to mean the award of a contract is assured, as availability of funds and successful negotiations are prerequisites to any award.
2. **Administrative and National Policy Requirements:** See Section I.
3. **Reporting:** Reporting requirements will be specified in the CDRLs.

VII. Other Information

1. **Acquisition of Commercial Items:** Based upon market research, the Government is not using the policies contained in FAR 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 evaluate proposals for selection. 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:** 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 preaward 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 Preaward Registry <http://www.dol-esa.gov/preaward>. Award may be delayed if you are not currently listed in the registry and the contracting officer must request a preaward clearance from the OFCCP.

6. **Updates of Publicly Available Information Regarding Responsibility Matters:** Any contract award that exceeds \$550,000.00 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 (JUL 2013)."
7. **Proposal Reminders:** You may be ineligible for award if all requirements of this solicitation are not met on the proposal due date.
 - a. Proposals are due to the Contracting POC.
 - 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, see IV(2)(b)(ii)(c).
 - 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. Since a DD254 is applicable, offerors must verify their Cognizant Security Office information is current with Defense Security Service (DSS) at www.dss.mil.
 - i. Since the 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. Place Holder - Model Contract will be released with the formal BAA
2. CDRLs
3. ID/IQ Contract Statement of Work
4. ID/IQ Contract Statement of Work Supplemental Requirements
5. DD Form 254
6. Place Holder - Section K- Representations and Certifications will be released with the formal BAA

To be released with formal BAA.

CONTRACT DATA REQUIREMENTS LIST (1 Data Item)				Form Approved OMB No. 0704-0188		
<p>The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Department of Defense, Executive Services and Communications Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please do not return your form to the above organization. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.</p>						
A. CONTRACT LINE ITEM NO. 0001		B. EXHIBIT A	C. CATEGORY: TDP _____ TM _____ OTHER _____ N/A REF: DOD 5010.12-M			
D. SYSTEM/ITEM		E. CONTRACT/PR NO. FA8650-		F. CONTRACTOR		
1. DATA ITEM NO. A001	2. TITLE OF DATA ITEM SCIENTIFIC AND TECHNICAL REPORTS			3. SUBTITLE Final Report		
4. AUTHORITY (Data Acquisition Document No.) DI-MISC-80711A/T		5. CONTRACT REFERENCE AF SOW, PARA 8.0			6. REQUIRING OFFICE AFRL/RQT	
7. DD 250 REQ XX	9. DIST STATEMENT REQUIRED C	10. FREQUENCY ONE/R	12. DATE OF FIRST SUBMISSION See Block 16	14. DISTRIBUTION		
8. APP CODE A		11. AS OF DATE End of Tech Effort	13. DATE OF SUBSEQUENT SUBMISSION See Block 16	a. ADDRESSEE	b. COPIES	
16. REMARKS						
<p>Blk 4: Tailored to allow for attached ANSI based AFRL Format Guidelines including Standard Form 298. Also to include, if the Final Report contains data that is being delivered with less than unlimited rights, the data with less-than-unlimited rights shall be delivered in an appropriately marked appendix to the Final Report. Block 10, is clarified so that, "Pursuant to DFARS 252.235-7011, the Government will forward the approved report to the Defense Technical Information Center (DTIC)."</p>						
<p>BLOCK 9: C: Distribution authorized to US Government agencies and their contractors. Other requests for this document shall be referred to AFRL/RQT.</p>						
<p>WARNING - This document contains technical data whose export is restricted by the Arms Export Control Act (Title 22, U.S.C., sec 2778 et seq.) or the Export Administration Act of 1979, as amended, Title 50, U.S.C. App 2401 et seq. Violations of these export laws are subject to severe criminal penalties. Disseminate in accordance with provisions of DoD Directive 5230.25.</p>						
<p>Electronic submittals shall be encrypted or password protected.</p>						
<p>Block 11: End of Technical Effort.</p>						
<p>Block 12: 30 days from Block 11.</p>						
<p>Approval/Disapproval by letter from the Air Force Program Manager within 30 days after receipt.</p>						
<p>Disapproval requires... (continued on next page)</p>						
G. PREPARED BY Persis A. Elwood AFRL/RQT (937) 255-7641		H. DATE 27-JUN-2017	I. APPROVED BY			J. DATE
15. TOTAL → 2 3 0						
17. PRICE GROUP						
18. ESTIMATED TOTAL PRICE						

CONTRACT DATA REQUIREMENTS LIST*(1 Data Item)*

A. CONTRACT LINE ITEM NO. 0001	B. EXHIBIT A	C. CATEGORY: TDP _____ TM _____ OTHER _____ N/A REF: DOD 5010.12-M
D. SYSTEM/ITEM	E. CONTRACT/PR NO. FA8650-	F. CONTRACTOR

16. REMARKS (Continued)

correction/resubmission within 30 days after receipt of Air Force comments.

Block 13: End of Contract, 90 days from Block 11.

Blocks 12 & 13: Contractor shall deliver the Final Report within 30 calendar days after completion of the technical effort. The AFRL Program Manager will take no more than 30 calendar days to review, edit, and return to the contractor. Upon receipt of the combined Technical and STINFO comments, the contractor shall take no more than 30 calendar days to incorporate all required changes and deliver the final technical report in camera ready and in an editable text format (MS Word) on CD-ROM electronic copy. CD-ROM shall be labeled IAW ANSI based AFRL Format Guidelines.

Block 14: Draft submittal shall consist of 1 editable (MS Word or PDF) file on CD-ROM. The final submittal shall consist of all editable text documents and all multimedia source files in current AF Standard Desktop format (MS Office or PDF compatible) Acceptance shall be in accordance with the ANSI based AFRL Format guidelines and the AFRL Quality Technical Report (TR) Checklist (attached). The checklist must be signed and submitted with the Final Report.

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved
OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Department of Defense, Executive Services and Communications Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please do not return your form to the above organization. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

16. REMARKS

Tailored to allow contractor's format.

* At the close of the contractor's monthly accounting period.

** 25 days after Block 11 time.

BLOCK 9: B: Distribution authorized to US Government agencies only.

Submit electronically. Electronic submittals shall be encrypted or password protected.

CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)
*Form Approved
OMB No. 0704-0188*

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A. CONTRACT LINE ITEM NO. 0001			B. EXHIBIT A	C. CATEGORY: TDP _____ TM _____ OTHER _____ N/A REF: DOD 5010.12-M		
D. SYSTEM/ITEM		E. CONTRACT/PR NO. FA8650-		F. CONTRACTOR		
1. DATA ITEM NO. A003	2. TITLE OF DATA ITEM SCIENTIFIC AND TECHNICAL REPORTS			3. SUBTITLE SPEND PLAN		
4. AUTHORITY <i>(Data Acquisition Document No.)</i> DI-MISC-80711A/T		5. CONTRACT REFERENCE AF SOW, PARA 8.0			6. REQUIRING OFFICE AFRL/RQT	
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED B	10. FREQUENCY MTHLY	12. DATE OF FIRST SUBMISSION **	14. DISTRIBUTION		
8. APP CODE N/A		11. AS OF DATE *	13. DATE OF SUBSEQUENT SUBMISSION **	a. ADDRESSEE	b. COPIES	
16. REMARKS						
<p>Tailored to require the reporting of current work accomplished and billed against work scheduled to be accomplished for the cumulative total work effort in dollars as defined herein. The report will show a graphical/tabular depiction by month comparing BCWS, ACWP, and the contractor's billed amount. Block 10 is clarified so that distribution to DTIC shall only be through Air Force distribution channels.</p> <p>Budget Cost of Work Scheduled (BCWS) means the estimated cost of all work scheduled to be accomplished for total work effort.</p> <p>Actual Cost of Work Performed (ACWP) means the actual costs of work accomplished as of the reporting cut-off date.</p> <p>Billed means the amount of funds that have been billed to the Government by the contractor.</p> <p>* At the end of the contractor's monthly accounting period.</p> <p>** 25 days after Block 11 time.</p> <p>Submit electronically. Electronic submittals shall be encrypted or password protected.</p> <p>BLOCK 9: B: Distribution authorized to US Government agencies only.</p>						15. TOTAL → 0 5 0
G. PREPARED BY Persis A. Elwood AFRL/RQT (937) 255-7641		H. DATE 27-JUN-2017	I. APPROVED BY			J. DATE

17. PRICE GROUP
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17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

16. REMARKS

Tailored so that the report contains forecasts by month for the next six months, by quarter for the remaining fiscal year, and by year for the remaining fiscal years. CFSR data shall be reconciled to the Government's fiscal year end at 30 September if the contractor's fiscal year end does not coincide with the Government's fiscal year end.

* The last day of the contractor's monthly accounting period nearest the end of the government's fiscal year quarter.

** The initial submission shall be within 25 calendar days after the close of the contractor's monthly accounting period nearest the end of the first government fiscal year quarter after contract award.

*** Subsequent submissions shall be 25 calendar days after Block 11 time.

BLOCK 9: B: Distribution authorized to US Government agencies only.

Submit electronically. Electronic submittals shall be encrypted or password protected.

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved
OMB No. 0704-0188

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A. CONTRACT LINE ITEM NO. 0001		B. EXHIBIT A		C. CATEGORY: TDP _____ TM _____ OTHER _____		N/A REF: DOD 5010.12-M		
D. SYSTEM/ITEM			E. CONTRACT/PR NO. FA8650-		F. CONTRACTOR			
1. DATA ITEM NO. A005	2. TITLE OF DATA ITEM STATUS REPORT			3. SUBTITLE				
4. AUTHORITY (Data Acquisition Document No.) DI-MGMT-80368A/T			5. CONTRACT REFERENCE AF SOW, PARA 8.0			6. REQUIRING OFFICE AFRL/RQT		
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED C	10. FREQUENCY QRTLY		12. DATE OF FIRST SUBMISSION **		14. DISTRIBUTION		
8. APP CODE N/A		11. AS OF DATE *		13. DATE OF SUBSEQUENT SUBMISSION **		a. ADDRESSEE	b. COPIES	
16. REMARKS								
Tailored to allow contractor's format and to delete para 3.2.3.								
Submit quarterly except when Final Report is due to be submitted, then omit this report.								
* At the close of the contractor's quarterly accounting period.								
** 25 days after Block 11 time.								
Submit electronically. Electronic submittals shall be encrypted or password protected.								
BLOCK 9: C: Distribution authorized to US Government agencies and their contractors.								
15. TOTAL → 0 4 0								
G. PREPARED BY Persis A. Elwood AFRL/RQT (937) 255-7641			H. DATE 27-JUN-2017		I. APPROVED BY			J. DATE

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CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved
OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Department of Defense, Executive Services and Communications Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. **Please do not return your form to the above organization. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.**

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

16. REMARKS

Tailored to allow contractor's format, and Block 10, is clarified so that, "Pursuant to DFARS 252.235-7011, the Government will forward the approved interim report to the Defense Technical Information Center (DTIC)."

* Submit as generated.

Submit electronically. Electronic submittals shall be encrypted or password protected.

BLOCK 9: C: Distribution authorized to US Government agencies and their contractors.

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved
OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Department of Defense, Executive Services and Communications Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. **Please do not return your form to the above organization. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.**

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

16. REMARKS

Tailored to require only computer generated file.

ASREQ means as required to document topics under discussion at briefings and reviews.

* Submit at each briefing or review as appropriate.

Submit reproducible on media compatible with
MS-Office for Windows.

BLOCK 9: C: Distribution authorized to US Government agencies and their contractors.

Submit electronically. Electronic submittals shall be encrypted or password protected.

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved
OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Department of Defense, Executive Services and Communications Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. **Please do not return your form to the above organization. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.**

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

16. REMARKS

Tailored to allow contractor's format.

ASREQ means as required to document each meeting, conference, review or presentation.

* Submit within 15 days after each review or presentation.

R/ASR means revisions as required to keep the Conference Minutes up to date, make changes or corrections; submit revisions as generated.

Submit electronically. Electronic submittals shall be encrypted or password protected.

BLOCK 9: C: Distribution authorized to US Government agencies and their contractors.

CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Department of Defense, Executive Services and Communications Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please do not return your form to the above organization. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE ITEM NO. 0001				B. EXHIBIT A		C. CATEGORY: TDP _____ TM _____ OTHER _____ N/A REF: DOD 5010.12-M			
D. SYSTEM/ITEM		E. CONTRACT/PR NO. FA8650-		F. CONTRACTOR					
1. DATA ITEM NO. A009	2. TITLE OF DATA ITEM TEST PROCEDURE			3. SUBTITLE					
4. AUTHORITY (Data Acquisition Document No.) DI-NDTI-80603A/T		5. CONTRACT REFERENCE AF SOW, PARA 8.0			6. REQUIRING OFFICE AFRL/RQT				
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED C	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION *	14. DISTRIBUTION					
8. APP CODE A		11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION **	a. ADDRESSEE	b. COPIES				
16. REMARKS					Draft	Final			
Tailored to allow contractor's format and to be submitted as pdf or Microsoft Word document.					Reg	Repro			
ASREQ means as required to document plans for testing procedures throughout the technical effort.					AFRL/RQT-BS	0	1	0	
* 60 days prior to each test.					AFRL/RQT-PM	1	1	0	
Approval/disapproval by letter from the Air Force Program Manager within 30 days after receipt.									
** Disapproval requires correction/resubmission within 15 days after receipt of Air Force comments.									
NOTE: Testing shall not begin until after contractor receipt of Air Force approval to proceed with testing.									
Submit electronically. Electronic submittals shall be encrypted or password protected.									
BLOCK 9: C: Distribution authorized to US Government agencies and their contractors.									
G. PREPARED BY Persis A. Elwood AFRL/RQT (937) 255-7641		H. DATE 27-JUN-2017		I. APPROVED BY			J. DATE		
15. TOTAL →		1 2 0							

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved
OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Department of Defense, Executive Services and Communications Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. **Please do not return your form to the above organization. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.**

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

16. REMARKS

Tailored to allow AFRL/RQT Test Planning Best Practice and to be submitted as pdf or Microsoft Word document.

ASREQ means as required to document plans for testing through out the technical effort.

* 60 days prior to each test.

Approval/disapproval by letter from the Air Force Program Manager within 30 days after receipt.

** Disapproval requires correction/resubmission within 15 days after receipt of Air Force comments.

NOTE: Testing shall not begin until after contractor receipt of Air Force approval to proceed with testing.

Submit electronically. Electronic submittals shall be encrypted or password protected.

BLOCK 9: C: Distribution authorized to US Government agencies and their contractors.

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved
OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Department of Defense, Executive Services and Communications Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please do not return your form to the above organization. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

16. REMARKS

Tailored to allow contractor's format.

ASREQ means as required to document testing/inspection findings for the Task Order.

* Test completion.

** 30 days after Block 11.

BLOCK 9: C: Distribution authorized to US Government agencies and their contractors.

Submit electronically. Electronic submittals shall be encrypted or password protected.

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved
OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Department of Defense, Executive Services and Communications Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. **Please do not return your form to the above organization. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.**

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

16. REMARKS

Tailored to allow contractor's format and to require only the SSHA report.

* Submit at the Test Readiness Review.

BLOCK 9: C: Distribution authorized to US Government agencies and their contractors.

Submit electronically. Electronic submittals shall be encrypted or password protected.

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved
OMB No. 0704-0188

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17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

16. REMARKS

Tailored to allow contractor's format, and
Block 10 is clarified so that distribution to DTIC
shall only be through Air Force distribution channels.

* Task Order award date.

** Submit 60 days after block 11 time.

Approval/disapproval by letter from the Air Force Program Manager within 30 days after receipt.

***Disapproval requires correction/resubmission within 30 days after receipt of Air Force comments.

BLOCK 9: C: Distribution authorized to US Government agencies and their contractors.

Submit electronically. Electronic submittals shall be encrypted or password protected.

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved
OMB No. 0704-0188

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17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

16. REMARKS

Tailored to allow contractor's format.

ASREQ means as required to document the operating procedures for all hazardous materials under this Task Order effort.

* Submit as generated.

BLOCK 9: C: Distribution authorized to US Government agencies and their contractors.

Submit electronically. Electronic submittals shall be encrypted or password protected.

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved
OMB No. 0704-0188

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17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

16. REMARKS

Tailored to allow contractor's format.

* Submit as generated.

Submit reproducible medium compatible with MS-Office for Windows.

Submit electronically. Electronic submittals shall be encrypted or password protected.

BLOCK 9: C: Distribution authorized to US Government agencies and their contractors.

CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

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A. CONTRACT LINE ITEM NO. 0001				B. EXHIBIT A		C. CATEGORY: TDP _____ TM _____ OTHER _____ N/A REF: DOD 5010.12-M			
D. SYSTEM/ITEM		E. CONTRACT/PR NO. FA8650-		F. CONTRACTOR					
1. DATA ITEM NO. A016	2. TITLE OF DATA ITEM SOFTWARE TEST PLAN (STP)			3. SUBTITLE					
4. AUTHORITY (Data Acquisition Document No.) DI-IPSC-81438A/T		5. CONTRACT REFERENCE AF SOW, PARA 8.0			6. REQUIRING OFFICE AFRL/RQT				
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED C	10. FREQUENCY ASGEN	12. DATE OF FIRST SUBMISSION * 11. AS OF DATE *		14. DISTRIBUTION a. ADDRESSEE AFRL/RQT-BS AFRL/RQT-PM				
13. DATE OF SUBSEQUENT SUBMISSION ** R/ASR		b. COPIES Draft Final Reg Repro							
16. REMARKS Tailored to allow contractor's format. ASGEN means as software test plans are generated throughout this effort. * Submit as generated. Approval/disapproval by letter from the Air Force Program Manager within 15 days after receipt. **Disapproval requires correction/resubmission within 15 days after receipt of Air Force comments. R/ASR means revisions as required to keep the Software Test Plan up to date, make changes or corrections; submit revisions as generated. Revisions are subject to the above stated approval/disapproval cycle. Submit electronically. Electronic submittals shall be encrypted or password protected. BLOCK 9: C: Distribution authorized to US Government agencies and their contractors.						15. TOTAL → 1 2 0			
G. PREPARED BY Persis A. Elwood AFRL/RQT (937) 255-7641		H. DATE 27-JUN-2017		I. APPROVED BY			J. DATE		

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved
OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Department of Defense, Executive Services and Communications Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please do not return your form to the above organization. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

16. REMARKS

ASREQ means as required to document progress throughout the effort via digital imaging.

* Submit as generated.

Submit electronically. Electronic submittals shall be encrypted or password protected.

BLOCK 9: C: Distribution authorized to US Government agencies and their contractors.

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved
OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Department of Defense, Executive Services and Communications Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. **Please do not return your form to the above organization. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.**

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

16. REMARKS

Tailored to allow contractor format.

Approval/disapproval by letter from the Air Force Program Manager within 30 days after receipt.

*Disapproval requires correction/resubmission within 15 days after receipt of Air Force comments.

Submit electronically. Electronic submittals shall be encrypted or password protected.

BLOCK 9: B: Distribution authorized to US Government agencies only.

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved
OMB No. 0704-0188

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17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

16. REMARKS

Tailored to allow contractor format.

* At the end of the contractor's monthly accounting period.

** 25 days after Block 11 time.

Submit electronically. Electronic submittals shall be encrypted or password protected.

BLOCK 9: C: Distribution authorized to US Government agencies and their contractors.

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved
OMB No. 0704-0188

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17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

16. REMARKS

Tailored to allow contractor's format.

* Submit as generated.

Submit electronically. Electronic submittals shall be encrypted or password protected.

BLOCK 9: C: Distribution authorized to US Government agencies and their contractors.

CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)
*Form Approved
OMB No. 0704-0188*

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Department of Defense, Executive Services and Communications Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please do not return your form to the above organization. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE ITEM NO. 0001				B. EXHIBIT A	C. CATEGORY: TDP _____ TM _____ OTHER _____ N/A REF: DOD 5010.12-M				
D. SYSTEM/ITEM		E. CONTRACT/PR NO. FA8650-		F. CONTRACTOR					
1. DATA ITEM NO. A021	2. TITLE OF DATA ITEM CONCEPTUAL DESIGN DRAWINGS /MODELS			3. SUBTITLE					
4. AUTHORITY <i>(Data Acquisition Document No.)</i> DI-SESS-81001E/T		5. CONTRACT REFERENCE AF SOW, PARA 8.0			6. REQUIRING OFFICE AFRL/RQT				
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED C	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION *	14. DISTRIBUTION					
8. APP CODE A		11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION ** R/ASR	a. ADDRESSEE	b. COPIES				
16. REMARKS									
Tailored to allow contractor's format as defined in the attached DD Form 2554-2.									
ASREQ means as required to document conceptual designs drawings/models .									
* Submit as generated.									
Approval/disapproval by letter from the Air Force Program Manager within 30 days after receipt.									
** Disapproval requires correction/resubmission within 30 days after receipt of Air Force comments.									
R/ASR means revisions as required to maintain up to date and accurate drawings and lists. Revisions are subject to the approval cycle as stated.									
Submit electronically. Electronic submittals shall be encrypted or password protected.									
BLOCK 9: C: Distribution authorized to US Government agencies and their contractors.									
G. PREPARED BY Persis A. Elwood AFRL/RQT (937) 255-7641		H. DATE 27-JUN-2017	I. APPROVED BY			J. DATE			
15. TOTAL →					1	2	0		
17. PRICE GROUP									
18. ESTIMATED TOTAL PRICE									

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved
OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Department of Defense, Executive Services and Communications Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please do not return your form to the above organization. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

16. REMARKS

Tailored to allow contractor's format as defined in the attached DD Form 2554-3.

* Submit as generated.

Approval/disapproval by letter from the Air Force Program Manager within 30 days after receipt.

** Disapproval requires correction/resubmission within 30 days after receipt of Air Force comments.

R/ASR means revisions as required to maintain up to date and accurate drawings and lists. Revisions are subject to the approval cycle as stated.

Submit electronically. Electronic submittals shall be encrypted or password protected.

BLOCK 9: C: Distribution authorized to US Government agencies and their contractors.

CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Department of Defense, Executive Services and Communications Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please do not return your form to the above organization. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE ITEM NO. 0001				B. EXHIBIT A		C. CATEGORY: TDP _____ TM _____ OTHER _____ N/A REF: DOD 5010.12-M			
D. SYSTEM/ITEM		E. CONTRACT/PR NO. FA8650-		F. CONTRACTOR					
1. DATA ITEM NO. A023	2. TITLE OF DATA ITEM TECHNICAL REPORT-STUDY / SERVICES			3. SUBTITLE					
4. AUTHORITY (Data Acquisition Document No.) DI-MISC-80508B/T		5. CONTRACT REFERENCE AF SOW, PARA 8.0			6. REQUIRING OFFICE AFRL/RQT				
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED C	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION **		14. DISTRIBUTION				
8. APP CODE N/A		11. AS OF DATE *	13. DATE OF SUBSEQUENT SUBMISSION **		a. ADDRESSEE	b. COPIES			
16. REMARKS Tailored to allow for contractor format.						Draft	Final		
ASREQ means as required to document findings from analysis or studies conducted throughout the technical effort.					Reg	Repro			
* At the conclusion of each study or analysis throughout the technical effort.									
** 30 days after Block 11.									
Submit electronically. Electronic submittals shall be encrypted or password protected.									
BLOCK 9: C: Distribution authorized to US Government agencies and their contractors.									
G. PREPARED BY Persis A. Elwood AFRL/RQT (937) 255-7641					H. DATE 27-JUN-2017	I. APPROVED BY		J. DATE	
15. TOTAL →					0 2 0				

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved
OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Department of Defense, Executive Services and Communications Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please do not return your form to the above organization. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

16 REMARKS

Tailored to allow contractor's format.

* Submit as generated.

R/ASR means revisions as required to keep the Subsystem Design Analysis Report up to date, make changes or corrections; submit revisions as generated.

Submit electronically. Electronic submittals shall be encrypted or password protected.

BLOCK 9: C: Distribution authorized to US Government agencies and their contractors.

CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

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A. CONTRACT LINE ITEM NO. 0001			B. EXHIBIT A	C. CATEGORY: TDP _____ TM _____ OTHER _____ N/A REF: DOD 5010.12-M						
D. SYSTEM/ITEM		E. CONTRACT/PR NO. FA8650-		F. CONTRACTOR						
1. DATA ITEM NO. A025	2. TITLE OF DATA ITEM INTEGRATED PROGRAM MANAGEMENT REPORT (IPMR)			3. SUBTITLE						
4. AUTHORITY (Data Acquisition Document No.) DI-MGMT-81861A/T		5. CONTRACT REFERENCE AF SOW, PARA 8.0			6. REQUIRING OFFICE AFRL/RQT					
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED B	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION *	14.	DISTRIBUTION					
8. APP CODE N/A		11. AS OF DATE *	13. DATE OF SUBSEQUENT SUBMISSION *	a. ADDRESSEE	b. COPIES					
16. REMARKS										
Tailored to allow for attached format.										
ASREQ means as required per the attached submission requirements. May be monthly, quarterly or annually.										
* See attachment for submission requirements.										
Submit electronically. Electronic submittals shall be encrypted or password protected.										
BLOCK 9: B: Distribution authorized to US Government agencies only.										
G. PREPARED BY Persis A. Elwood AFRL/RQT (937) 255-7641						H. DATE 27-JUN-2017	I. APPROVED BY		J. DATE	
15. TOTAL →						0	5	0		

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved
OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Department of Defense, Executive Services and Communications Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please do not return your form to the above organization. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

R/ASR means revisions as required to document Air Force required changes or changes requested by the contractor to keep the CWBS up to date; changes and revisions to the CWBS shall be accompanied by appropriate changes and/or revisions to the index and the dictionary. The contractor shall incorporate Air Force required changes within 30 days after receipt.

BLOCK 9: B: Distribution authorized to US Government agencies only.

Submit electronically. Electronic submittals shall be encrypted or password protected.

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

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17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

16. REMARKS

Tailored so that reporting levels shall be in accordance with the Air Force approved CCDR Plan, attached to Data Item # A026; and so that critical/major subcontractor summary level data shall be reported as an attachment.

* Submit as generated.

BLOCK 9: B: Distribution authorized to US Government agencies only.

Submit electronically. Electronic submittals shall be encrypted or password protected.

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved
OMB No. 0704-0188

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17. PRICE GROUP
18. ESTIMATED
TOTAL PRICE

16. REMARKS

Tailored to allow contractor's format.

* Submit with software for this technical effort.
Delivery of Software shall be inclusive of software
source code and executable.

Submit electronically. Electronic submittals shall be encrypted or password protected.

BLOCK 9: C: Distribution authorized to US Government agencies and their contractors.

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved
OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Department of Defense, Executive Services and Communications Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please do not return your form to the above organization. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

16. REMARKS

Tailored to allow for GFI format, and Block 10, is clarified so that, "Pursuant to DFARS 252.235-7011, the Government will forward the approved Engine Requirements Document to the Defense Technical Information Center(DTIC)."

- * 45 days after contract award.
- * 60 days prior to Preliminary Design Review (PDR).
- * 60 days prior to Detailed Design Review (DDR).

Approval/disapproval by letter from the Air Force Program Manager within 30 days after receipt.

** Disapproval requires correction/resubmission within 15 days after receipt of Air Force comments.

Submit electronically. Electronic submittals shall be encrypted or password protected.

Block 9: B: Distribution authorized to US Government agencies only.

INSTRUCTIONS FOR COMPLETING DD FORM 1423

(See DoD 5010.12-M for detailed instructions.)

<u>FOR GOVERNMENT PERSONNEL</u>	<u>FOR THE CONTRACTOR</u>
<p>Item A. Self-explanatory.</p> <p>Item B. Self-explanatory.</p> <p>Item C. Mark (X) appropriate category: TDP - Technical Data Package; TM - Technical Manual; Other - other category of data, such as "Provisioning," "Configuration Management," etc.</p> <p>Item D. Enter name of system/item being acquired that data will support.</p> <p>Item E. Self-explanatory (to be filled in after contract award).</p> <p>Item F. Self-explanatory (to be filled in after contract award).</p> <p>Item G. Signature of preparer of CDRL.</p> <p>Item H. Date CDRL was prepared.</p> <p>Item I. Signature of CDRL approval authority.</p> <p>Item J. Date CDRL was approved.</p> <p>Item 1. See DoD FAR Supplement Subpart 4.71 for proper numbering.</p> <p>Item 2. Enter title as it appears on data acquisition document cited in Item 4.</p> <p>Item 3. Enter subtitle of data item for further definition of data item (optional entry).</p> <p>Item 4. Enter Data Item Description (DID) number, military specification number, or military standard number listed in DoD 5010.12-L (AMSDL), or one-time DID number, that defines data content and format requirements.</p> <p>Item 5. Enter reference to tasking in contract that generates requirement for the data item (e.g., Statement of Work paragraph number).</p> <p>Item 6. Enter technical office responsible for ensuring adequacy of the data item.</p> <p>Item 7. Specify requirement for inspection/acceptance of the data item by the Government.</p> <p>Item 8. Specify requirement for approval of a draft before preparation of the final data item.</p> <p>Item 9. For technical data, specify requirement for contractor to mark the appropriate distribution statement on the data (ref. DoDD 5230.24).</p> <p>Item 10. Specify number of times data items are to be delivered.</p> <p>Item 11. Specify as-of date of data item, when applicable.</p> <p>Item 12. Specify when first submittal is required.</p> <p>Item 13. Specify when subsequent submittals are required, when applicable.</p> <p>Item 14. Enter addressees and number of draft/final copies to be delivered to each addressee. Explain reproducible copies in Item 16.</p> <p>Item 15. Enter total number of draft/final copies to be delivered.</p> <p>Item 16. Use for additional/clarifying information for Items 1 through 15. Examples are: Tailoring of documents cited in Item 4; Clarification of submittal dates in Items 12 and 13; Explanation of reproducible copies in Item 14.; Desired medium for delivery of the data item.</p>	<p>Item 17. Specify appropriate price group from one of the following groups of effort in developing estimated prices for each data item listed on the DD Form 1423.</p> <p>a. Group I. Definition - Data which is not otherwise essential to the contractor's performance of the primary contracted effort (production, development, testing, and administration) but which is required by DD Form 1423.</p> <p>Estimated Price - Costs to be included under Group I are those applicable to preparing and assembling the data item in conformance with Government requirements, and the administration and other expenses related to reproducing and delivering such data items to the Government.</p> <p>b. Group II. Definition - Data which is essential to the performance of the primary contracted effort but the contractor is required to perform additional work to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, or quality of the data item.</p> <p>Estimated Price - Costs to be included under Group II are those incurred over and above the cost of the essential data item without conforming to Government requirements, and the administrative and other expenses related to reproducing and delivering such data item to the Government.</p> <p>c. Group III. Definition - Data which the contractor must develop for his internal use in performance of the primary contracted effort and does not require any substantial change to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, and quality of the data item.</p> <p>Estimated Price - Costs to be included under Group III are the administrative and other expenses related to reproducing and delivering such data item to the Government.</p> <p>d. Group IV. Definition - Data which is developed by the contractor as part of his normal operating procedures and his effort in supplying these data to the Government is minimal.</p> <p>Estimated Price - Group IV items should normally be shown on the DD Form 1423 at no cost.</p> <p>Item 18. For each data item, enter an amount equal to that portion of the total price which is estimated to be attributable to the production or development for the Government of that item of data. These estimated data prices shall be developed only from those costs which will be incurred as a direct result of the requirement to supply the data, over and above those costs which would otherwise be incurred in performance of the contract if no data were required. The estimated data prices shall not include any amount for rights in data. The Government's right to use the data shall be governed by the pertinent provisions of the contract.</p>

Statement of Work (SOW)

Supplemental Requirements

Version 2.5

20 Oct 2017

Attachment 4

The following paragraphs are also considered be a part of the SOW requirements and the Contractor is responsible for compliance to the same extent as the rest of the SOW.

1. Implementation of Disclosure of Information - In order to comply with DFARS 252.204-7000, Disclosure of Information, the following copies of the information to be released are required at least 45 days prior to the scheduled release date:
 - (a) One copy to: Office of Public Affairs
 - (b) One copy Contracting Officer
 - (c) One copy to: Program Manager
2. Communications Security (COMSEC) Monitoring - All communications with DoD organizations are subject to Communications Security (COMSEC) review. Contractor personnel will be aware that telecommunications networks are continually subject to interception by unfriendly intelligence organizations. The DoD has authorized the military departments to conduct COMSEC monitoring and recording of telephone calls originating from or terminating at DoD organizations. Therefore civilian contractor personnel are advised that any time they place a call to or receive a call from a USAF organization they are subject to COMSEC procedures. The Contractor will assume the responsibility for ensuring wide and frequent dissemination of the above information to all employees dealing with official DoD information.
3. Acknowledgement of Sponsorship -
 - (a) The contractor agrees that in the release of information relating to this contract such release shall include a statement to the effect that the project or effort depicted was or is sponsored by the Air Force Research Laboratory (AFRL and DARPA).
 - (b) For the purpose of this clause "information" includes but is not limited to material presented in news releases articles manuscripts brochures advertisements still and motion pictures speeches presentations meetings conferences symposia etc.
 - (c) Nothing in the foregoing shall affect compliance with the requirements of the clause (if applicable) of this contract entitled "Security Requirements".

(d) The contractor further agrees to include this requirement in any subcontracts awarded as a result of this contract.

4. Packaging and Marking –

- (a) All hardware deliverable contract items shall be packaged in accordance with established commercial practices.
- (b) When special delivery and/or handling instructions are required, all boxes and/or crates must contain the following statement in plain sight and in bold letters: **INSTRUCTION TO RECEIVING OFFICE - DO NOT OPEN; CONTENTS ARE SENSITIVE TO DAMAGE WHEN IMPROPERLY OPENED OR HANDLED. CONTACT THE RESPONSIBLE TECHNICAL PROJECT OFFICER IMMEDIATELY UPON RECEIPT. CONTACT: TBD ON INDIVIDUAL TASK ORDERS.**

5. Program Manager – The Government Program Manager for this effort is

6. Implementation of Patent Rights Clause –

- (a) "Interim or Final Invention Reports 1) listing the subject invention(s) and stating that all subject inventions have been disclosed, or 2) stating that there are no such inventions, shall be sent to both the Administrative Contracting Officer at the address located on the face of the contract and to Patent Administrator at det1.afrl.pk.patents@us.af.mil within the timeframes specified in the Patent Rights clause of this contract.
- (b) Contractors are highly encouraged to use DD Form 882, Report of Invention and Subcontracts, to submit these reports. The DD Form 882 may also be used for the notification of an award of any subcontract(s) for experimental, developmental or research work which contain a "Patent Rights" clause.
- (c) All other notifications required by the contract shall also be sent to the addresses in paragraph (a). This provision also constitutes the request for the following information for any subject invention for which the contractor has retained ownership (1) the filing date, (2) serial number and title, (3) a copy of the patent application, and (4) patent number and issue date. Submittal shall be to (insert contact information for person(s) at the procuring contract office who will handle patent administration, e.g., name and/or position, email, phone numbers, etc.).

7. Information Regarding Non-US Citizens Assigned to this Project –

- (a) Contractor employees requiring access to USAF bases, AFRL facilities, and/or access to U.S. Government Information Technology (IT) networks in connection with the work on this contract must be U.S. citizens. For the purpose of base and network access, possession of a permanent resident card ("Green Card") does not equate to U.S. citizenship. This requirement does not apply to foreign nationals approved by the U.S. Department of Defense or U.S. State Department under international personnel exchange agreements with foreign governments. Any waivers to this requirement must be granted in writing by the Contracting Officer prior to providing access. The above requirements are in addition to any other contract requirements related to obtaining a Common Access Card (CAC).

(b) For purposes of paragraph (a) above, if an IT network/system does not require AFRL to endorse a contractor's application to said network/system in order to gain access, the organization operating the IT network/system is responsible for controlling access to its system. If an IT network/system requires an U.S. Government sponsor to endorse the application in order for access to the IT network/system; AFRL will only endorse the following types of applications; consistent with the requirements above:

- (1) Contractor employees who are U.S. citizens performing work under this contract.
- (2) Contractor employees who are non-U.S. citizens and who have been granted a waiver.

Any additional access restrictions established by the IT network/system owner apply.

**STATEMENT OF WORK
FOR
ADVANCED TURBINE TECHNOLOGIES FOR AFFORDABLE
MISSION-CAPABILITY (ATTAM) I**

INTRODUCTION:

The Advanced Turbine Technologies for Affordable Mission-Capability (ATTAM) Phase I program is a capability based planning and execution development construct for turbine technology for the Air Force. The Turbine Engine Division, Aerospace Systems Directorate, of the Air Force Research Laboratory (AFRL) seeks to advance the state-of-the-art in turbine engine technology. The mission of the ATTAM program is to develop, demonstrate and transition advanced turbine propulsion, power and thermal technologies that provide a disruptive improvement in affordable mission capability. This approach extends to a range of legacy, emerging, and future military propulsion, power and thermal technology needs in multiple applications.

1.0 SCOPE

1.1 The objectives of the ATTAM program are to reduce development, production, and maintenance costs; increase fuel efficiency; increase propulsive capability; and integrate propulsion, power, and thermal management.

1.2 The Turbine Engine Division has provided sustainment technology to legacy systems for many years, and continues to collaborate with the acquisition and sustainment communities to improve warfighting capabilities. Understanding the needs of our warfighter today is key to determining research strategies to provide technologies for tomorrow. Integration of new architectures is also a key to understanding and implementing new technologies for engine, power and thermal management.

2.0 APPLICABLE DOCUMENTS

2.1 TBD on Task Orders.

3.0 REQUIREMENTS

The contractor shall conduct research under the following Grand Challenge research areas:

3.1 Propulsion, Power and Thermal Technologies

The contractor shall develop and demonstrate fully integrated advanced propulsion capabilities that provide high electrical power generation and thermal management to enable revolutionary capabilities across a wide range of engine classes. The contractor shall conduct research in areas of interest that may

include, but are not limited to: challenges associated with adaptive core and engine features; optimization of sub-system designs; component and system technologies; advanced materials; engine stability; electrical power; thermal management; and prognostics and health management.

3.1.1 Adaptive Propulsion Technology – The contractor shall complete the design and development of adaptive cycle core and demonstrator engines. The contractor shall conduct component development and risk mitigation testing to advance Technology Readiness Level (TRL) / Manufacturing Readiness Level (MRL) in preparation for core and planned engine demonstrator testing. Research interests may include, but are not limited to: adaptive cycle engine technology; operability; power and thermal management; and innovative application of advanced material and manufacturing systems.

3.1.2 Integrated Propulsion, Power and Thermal (INPPAT) Management Demonstration – The contractor shall investigate the integration and control of advanced turbine engine configurations. Research in this area will include development, integration and control of propulsion, power, and thermal management systems for advanced subsonic and supersonic vehicle concepts. The contractor shall design, develop components, and perform risk mitigation testing to demonstrate integrated systems. The contractor shall conduct research in areas of interest that may include, but are not limited to: leveraging component developments in controls; control life management modeling; adaptive engine features; and weapon system integrated performance and operability.

3.1.3 Advanced Propulsion, Power and Thermal System Controls – The contractor shall develop hardware and integration technologies enabling future Air Vehicle Platform capabilities. The contractor shall conduct research in areas of interest that may include, but are not limited to: electronics for control, power, actuation, and sensing; prognostics and health management (PHM); and innovative application of advanced material and manufacturing systems.

3.1.4 Thermal Technologies for Integrated Systems – The contractor shall develop and integrate thermal management system (TMS) technologies for emerging propulsion systems across all engine classes. The contractor shall conduct research in areas of interest that may include, but are not limited to: power and thermal management needs for the propulsion and vehicle systems; and innovative application of advanced material and manufacturing systems. The contractor shall conduct component development and risk mitigation testing to advance TRL/MRL in preparation for an integrated system demonstration.

3.1.5 System Exploration of Engine Concepts (SEEC) – The contractor shall investigate integration of advanced propulsion, power and thermal management systems into air platform vision systems, create conceptual vision system designs, formulate promising aero-propulsion/power/thermal management architectures, and define associated technology, manufacturing and integration challenges. The contractor shall capture and assess key operational benefits, system level performance metrics, technology & manufacturing readiness levels, and perform business case analysis of AFRL's technology portfolio development and investment strategy.

3.2 Small and Medium Scale Propulsion Technologies

The contractor shall develop and demonstrate innovative technologies and architectures for small to medium scale propulsion systems. This includes turboshaft, turbojet, and turbofan engines with thrust or power levels of less than 20,000lbf and 10,000shp. Technologies should improve engine performance and operability for a wide range of flight conditions and Mach numbers, provide the necessary power and thermal management needs of the propulsion and vehicle systems, and meet mission specific requirements for time sensitive targets or increased range and/or loiter.

3.2.1 Efficient Small Scale Propulsion (ESSP) – The contractor shall develop technologies for reusable small engines, providing less than 1,000lbf/1,000shp. Innovative technologies and architectures will improve engine performance, efficiency, operability and durability. The contractor shall conduct research in areas of interest that may include, but are not limited to: advanced core engine technologies; advanced mechanical systems; and advanced materials/coatings for improved durability and reduced life cycle costs.

3.2.2 Efficient Medium Scale Propulsion (EMSP) – The contractor shall develop and demonstrate technologies that enable efficient propulsion systems with increased payload/range/loiter while providing integrated power and thermal systems capable of meeting the needs of the warfighter. The contractor shall conduct research in areas of interest that may include, but are not limited to: innovative power extraction; innovative cycles to increase thrust-to-weight or power-to-weight; innovative aircraft/engine architectures; concurrent aircraft and engine design to integrate propulsion, power, and thermal requirements; advanced materials, coatings and manufacturing systems for increased performance; improved component efficiency for decreased SFC; and reduced acquisition and lifecycle cost.

3.2.3 Expendable Turbine Engine - Subsonic – The contractor shall develop and demonstrate technologies for subsonic mission-specific-life systems.

Technologies should reduce engine cost, examine mission requirements vs. cost trade space, and effectively meet the required performance, reliability and life. The contractor shall conduct research in areas of interest that may include, but are not limited to: innovative approaches towards reduced maintenance; innovative use of materials, coatings, and manufacturing to decrease cost; innovative approaches to increase performance while reducing cost.

3.2.4 Expendable Turbine Engine - Supersonic – The contractor shall develop and demonstrate technologies for supersonic systems. Technologies will focus on innovative architectures for efficient propulsion capability for high Mach applications. The contractor shall conduct research in areas of interest that may include, but are not limited to: innovative thermal management systems and propulsion architectures; turbo-ramjets; efficient inlet and nozzle integration; innovative use of materials, coatings; advanced lubrication and mechanical systems; advanced materials and manufacturing. The contractor shall develop advanced conceptual designs for missions of DoD interest; define affordable mission trade space and transition strategies; and mature key technologies through component and system design and testing.

3.3 Sustainment & Affordable Technologies

The contractor shall develop pervasive technologies that enable improved affordability, availability, and increased operational effectiveness with applicability to legacy, emerging, and/or future air platforms. The contractor shall develop and demonstrate propulsion technologies that are environmentally friendly. The contractor shall develop and demonstrate propulsion technologies that address the need for more efficient and cost effective design methodologies and predictive capabilities for better components/systems performance, operability, durability, diagnostics and prognostics, and advanced fuels and lubricants. The contractor shall demonstrate and validate these technologies through analysis and/or testing such as bench, component, rig, and core and engine demonstrator tests.

3.3.1 Advanced Engine Sustainment Technologies (AEST) - The contractor shall develop technologies associated with the safety, durability, and reduced sustainment cost of existing, emerging, and future engine systems. The contractor shall conduct research in areas of interest that may include, but are not limited to: technologies for improved component efficiencies, component and coating durability, weight reduction, physics-based modeling, probabilistic design methods, rotordynamics, prognostic health management, design for advanced materials, design for advanced manufacturing, nondestructive evaluation/inspection capabilities for as-fabricated and degraded materials, multi-mode interaction, advanced bearing technology and advanced instrumentation. The contractor shall demonstrate and validate technologies through analysis and/or testing such as in bench, component, rig, technology demonstration tests, and structural demonstration tests.

3.3.2 Targeted Life Design System (TLDS) - The contractor shall develop and demonstrate new turbine engine design methodologies that shall improve the ability to design turbine engine components and/or systems to a required cycle life with high confidence. The contractor shall develop design systems that are able to optimize a component for a wide variety of materials and manufacturing methods as well as a wide variety of mission profiles and operating environments. The contractor shall demonstrate and validate their design system through analysis and/or testing such as bench, component, rig, and or core and engine demonstration test.

3.3.3 Augmentor Design System (ADS) - The contractor shall develop and demonstrate next generation augmentation systems. These technologies include improvement of existing augmentors and development of novel system architectures. The contractor shall produce diagnostic and test capabilities to support and validate design methodologies and models, increased operating envelope, and sustained combustion efficiency.

3.3.4 Battlespace Fuels (BF) - The contractor shall develop and demonstrate advanced fuel systems and components that enable generational advancements in propulsion system performance and platform energy management. The contractor shall conduct research in areas of interest that may include, but are not limited to: technologies to improve the thermally stability of jet fuels; robust FTMS designs and underlying M&S capabilities that accommodate uncertainties in fuel chemical composition and bulk thermodynamic properties; active monitoring of fuel health status for state awareness and active control of highly-integrated propulsion, power, and thermal systems; increased fuel heat sink capacity for high Mach platforms; increased fuel volumetric energy density for a greater range of volume-limited air vehicles; and prevention and on-board treatment of biological contaminants to reduce maintenance costs and ensure mission readiness. Technologies shall be demonstrated and validated through analysis and/or testing such as in bench, component, rig, and technology demonstration tests.

3.4 Innovative Architectures and Technologies

The contractor shall develop and demonstrate innovative aircraft propulsion architectures and technologies necessary to deliver truly differentiating integrated propulsion, power, and thermal capabilities. The contractor shall conduct research in areas of interest that may include, but are not limited to revolutionary technologies to significantly improve thermal & propulsive efficiency, reduce system level costs, decrease time to target, and enable increased power/thermal management.

3.4.1 High Mach Turbine Engines – The contractor shall develop technologies to enable reusable turbine engines for high Mach flight. The contractor shall conduct research in areas of interest that may include, but are

not limited to: innovative architectures and components to improve overall performance, operability, and system integration; innovative thermal management; advanced materials and manufacturing; and advanced mechanical systems, fuels, and lubes. The contractor shall research and develop advanced technology solutions.

3.4.2 Pressure Gain Propulsion – The contractor shall develop and demonstrate technologies necessary to incorporate the use of pressure gain combustion in primary propulsion, acceleration, main combustion, and power generation. The contractor shall conduct research in areas of interest that may include, but are not limited to: overall system pressure gain; and demonstrated increased system efficiency.

3.4.3 Turbo Electric Propulsion – The contractor shall develop and demonstrate technologies that enable highly efficient turbo electric propulsion compatible with relevant military platforms. The contractor shall conduct research in areas of interest that may include, but are not limited to: turbo electric; hybrid electric; reliable hybrid controls; and high efficiency power distribution.

3.4.4 Very High Efficiency Engines – The contractor shall develop and demonstrate technologies associated with very high levels of thermal and propulsive efficiency. The contractor shall conduct research in areas of interest that may include, but are not limited to: high pressure ratio compression; integrated power and thermal management; innovative adaptive cycle architectures; improved bearing life models; and advanced material/manufacturing systems.

3.4.5 Technology Concepts for 2040+ - The contractor shall identify and evaluate candidate technologies for demonstration in the 2040+ timeframe. The contractor shall conduct research in areas of interest that may include, but are not limited to: improved understanding of customer capability needs; conceptual design and analysis of vision aerospace systems; formulation and evaluation of next-generation aeropropulsion architectures; assessment and projection of technology readiness level (TRL), manufacturing readiness level (MRL), and other key metrics associated with evolutionary and disruptive technologies; business case analysis (BCA) supporting technology investment strategy; and utilization of the AFRL Systems Engineering (SE) process to aid technology portfolio development. Specific propulsion research interests include, but are not limited to: advanced component technologies; revolutionary fuel sources; pressure gain combustion; advanced materials.

3.5 Materials and Manufacturing Technology

Materials research is an enabling technology for design, development and testing of new propulsion systems and is pervasive across all Grand Challenge areas. Materials and manufacturing technology are key research interests that include, but are not limited to, new and innovative materials and coatings; development, verification and validation of optimized modeling and simulation tools for materials processing, physics-based tools for prediction of damage evolution, behavior across multiple scales, and lifing of advanced materials under realistic service conditions; advanced manufacturing; computational materials science and materials characterization.

3.6 Computational Tools

Products across all Grand Challenge areas should consider the agility, decision speed and interoperability benefits provided by a computationally useful engine technology mirror and related life cycle generated devices. Research interests in this area include, but are not limited to: simplified onboard models; increased processing capability; data acquisition/collection/storage necessary to produce actionable decisions; fiber optic communications; edge computing/processing; test instruments embedded with sensors /software/network connectivity; and data alignment with off board air vehicle platform models/tools.

4.0 ENVIRONMENTAL PROTECTION:

The contractor shall assess the environmental consequences of the technology being developed from the standpoint of the project itself and from the standpoint of future scale-up for larger quantity production. If the technology has adverse environmental effects, the contractor shall develop suggestions for making the technology environmentally acceptable and indicate what impact the suggestions will have on the technology from an economic standpoint. The contractor shall document the findings.

5.0 RELIABILITY, MAINTAINABILITY & SUPPORTABILITY (RM&S):

The contractor shall give specific consideration to RM&S during the execution of this program. These considerations shall be based on sound, practical engineering judgment, experience and available data. No separate reliability testing program shall be conducted as part of this program however, RM&S data shall be documented and shortcomings reported for consideration during future developments. Supportability considerations should be addressed at levels consistent with Applied Research (6.2) and Advanced Development (6.3) activities. The contractor shall document the findings.

6.0 SYSTEM SAFETY:

The contractor shall identify and document any safety hazards introduced during design, fabrication and testing. The design goal shall be to eliminate all hazards. Any residual hazards and subsequent design risk shall be summarized and provide enough detail to support an informed program management decision with regard to the design's overall

safety risk. The contractor shall address the identified hazards and recommend corrective actions.

7.0 OPERATIONS SECURITY (OPSEC)

7.1 Purpose

OPSEC must be an integral part of our daily activities. As we maintain security on our future technologies that are vital to national interest, we must recognize and prepare for the threat poised against our technology. Department of Defense policies mandate a high degree of security throughout the acquisition process. However, heightened security awareness and threat-based countermeasures are particularly essential during the research and development phase when our technology is most vulnerable to espionage, sabotage, or exploitation. It is the obligation of each employee or persons involved on this contract to be constantly aware of and strictly adhere to security requirements designed to protect sensitive unclassified and other information and resources produced by acquisition, research and development, and technological security efforts outlined in this SOW. The contractor shall ensure employees received training and follow appropriate OPSEC measures during the performance of this contract.

7.2 Coordination and Update

The contractor shall develop an OPSEC plan to protect classified and unclassified sensitive data from exploitation. The contractor shall be responsible to coordinate on all OPSEC requirements and the OPSEC plan. The contractor shall also update the OPSEC plan when updated critical or other information is received including, as appropriate, at the sub-task level. The OPSEC plan shall apply to every order under the contract.

7.3 Compliance

The contractor shall comply with the approved OPSEC plan. OPSEC surveys to measure the effectiveness of the OPSEC program may be conducted by the government. The contractor shall comply with these surveys. The contractor shall train personnel in, and follow appropriate OPSEC measures during, the performance of this contract.

8.0 PROGRAM & FINANCIAL MANAGEMENT:

The contractor shall exercise administration and management functions during the course of this effort such as: scheduling of activities and milestones; describing status; outlining contractor activity and progress toward accomplishment of objectives; planning, forecasting, and making recommendations on funding and funding changes; program planning; and describing in detail the conduct and overall results of this effort. The contractor shall ensure the documentation of this program by timely digital/photographic coverage of significant events and milestones. The contractor shall conduct annual reviews of this effort.

DEPARTMENT OF DEFENSE CONTRACT SECURITY CLASSIFICATION SPECIFICATION <i>(The requirements of the DoD Industrial Security Manual apply to all security aspects of this effort.)</i>				1. CLEARANCE AND SAFEGUARDING a. FACILITY CLEARANCE REQUIRED Secret b. LEVEL OF SAFEGUARDING REQUIRED Secret	
2. THIS SPECIFICATION IS FOR: (X and complete as applicable)				3. THIS SPECIFICATION IS: (X and complete as applicable)	
a. PRIME CONTRACT NUMBER <input checked="" type="checkbox"/>		<input checked="" type="checkbox"/> a. ORIGINAL (Complete date in all cases) DATE (YYYYMMDD) 20170907		DATE (YYYYMMDD)	
b. SUBCONTRACT NUMBER <input type="checkbox"/>		b. REVISED <i>(Supersedes all previous specs)</i>		REVISION NO. DATE (YYYYMMDD)	
X c. SOLICITATION OR OTHER NUMBER FA8650-18-S-2002		DUE DATE (YYYYMMDD)		c. FINAL (Complete item 5 in all cases) DATE (YYYYMMDD)	
4. IS THIS A FOLLOW-ON CONTRACT? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO. If Yes, complete the following: Classified material received or generated under _____ (Preceding Contract Number) is transferred to this follow-on contract.					
5. IS THIS A FINAL DD FORM 254? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO. If Yes, complete the following: In response to the contractor's request dated _____, retention of the classified material is authorized for the period of _____					
6. CONTRACTOR (Include Commercial and Government Entity (CAGE) Code)					
a. NAME, ADDRESS, AND ZIP CODE TBD		b. CAGE CODE TBD		c. COGNIZANT SECURITY OFFICE (Name, Address, and Zip Code) TBD	
7. SUBCONTRACTOR					
a. NAME, ADDRESS, AND ZIP CODE N/A		b. CAGE CODE N/A		c. COGNIZANT SECURITY OFFICE (Name, Address, and Zip Code) N/A	
8. ACTUAL PERFORMANCE					
a. LOCATION N/A		b. CAGE CODE N/A		c. COGNIZANT SECURITY OFFICE (Name, Address, and Zip Code) N/A	
9. GENERAL IDENTIFICATION OF THIS PROCUREMENT The Advanced Turbine Technologies for Affordable Mission-Capability (ATTAM) program. ~					
10. CONTRACTOR WILL REQUIRE ACCESS TO:		YES	NO	11. IN PERFORMING THIS CONTRACT, THE CONTRACTOR WILL:	
a. COMMUNICATIONS SECURITY (COMSEC) INFORMATION		<input checked="" type="checkbox"/>		a. HAVE ACCESS TO CLASSIFIED INFORMATION ONLY AT ANOTHER CONTRACTOR'S FACILITY OR A GOVERNMENT ACTIVITY	
b. RESTRICTED DATA		<input checked="" type="checkbox"/>		b. RECEIVE CLASSIFIED DOCUMENTS ONLY	
c. CRITICAL NUCLEAR WEAPON DESIGN INFORMATION		<input checked="" type="checkbox"/>		c. RECEIVE AND GENERATE CLASSIFIED MATERIAL	
d. FORMERLY RESTRICTED DATA		<input checked="" type="checkbox"/>		d. FABRICATE, MODIFY, OR STORE CLASSIFIED HARDWARE	
e. INTELLIGENCE INFORMATION (1) Sensitive Compartmented Information (SCI) (2) Non-SCI		<input checked="" type="checkbox"/>		e. PERFORM SERVICES ONLY f. HAVE ACCESS TO U.S. CLASSIFIED INFORMATION OUTSIDE THE U.S., PUERTO RICO, U.S. POSSESSIONS AND TRUST TERRITORIES	
f. SPECIAL ACCESS INFORMATION		<input checked="" type="checkbox"/>		g. BE AUTHORIZED TO USE THE SERVICES OF DEFENSE TECHNICAL INFORMATION CENTER (DTIC) OR OTHER SECONDARY DISTRIBUTION CENTER	
g. NATO INFORMATION		<input checked="" type="checkbox"/>		h. REQUIRE A COMSEC ACCOUNT	
h. FOREIGN GOVERNMENT INFORMATION		<input checked="" type="checkbox"/>		i. HAVE TEMPEST REQUIREMENTS	
i. LIMITED DISSEMINATION INFORMATION		<input checked="" type="checkbox"/>		j. HAVE OPERATIONS SECURITY (OPSEC) REQUIREMENTS	
j. FOR OFFICIAL USE ONLY INFORMATION		<input checked="" type="checkbox"/>		k. BE AUTHORIZED TO USE THE DEFENSE COURIER SERVICE	
k. OTHER (Specify) Program Protection Plan		<input checked="" type="checkbox"/>		l. OTHER (Specify) Pre-contract award access to classified is not required.	

12. PUBLIC RELEASE. Any information (classified or unclassified) pertaining to this contract shall not be released for public dissemination except as provided by the Industrial Security Manual or unless it has been approved for public release by appropriate U.S. Government authority. Proposed public releases shall be submitted for approval prior to release Direct Through (Specify)

AFRL/RQT, 2130 8th Street, WPAFB, OH 45433 for non-SAR related material. Transmission of public release request via e-mail is not authorized.

To the Directorate for Freedom of Information and Security Review, Office of the Assistant Secretary of Defense (Public Affairs)* for review.
*In the case of non-DoD User Agencies, requests for disclosure shall be submitted to that agency.

13. SECURITY GUIDANCE. The security classification guidance needed for this classified effort is identified below. If any difficulty is encountered in applying this guidance or if any other contributing factor indicates a need for changes in this guidance, the contractor is authorized and encouraged to provide recommended changes; to challenge the guidance or the classification assigned to any information or material furnished or generated under this contract; and to submit any questions for interpretation of this guidance to the official identified below. Pending final decision, the information involved shall be handled and protected at the highest level of classification assigned or recommended. (Fill in as appropriate for the classified effort. Attach, or forward under separate correspondence, any documents/guides/extracts referenced herein. Add additional pages as needed to provide complete guidance.)

The National Industrial Security Program Operating Manual (NISPOM), February 2006 applies.

Ref Blk 10a/11h: COMSEC is required.

Ref Blk 10j: See DoDM 5200.01, Volume 4, DoD Information Security Program: Controlled Unclassified Information (CUI), Enclosures 3 & 4 and DoD 5400.7-R/Air Force Manual 33-302, DoD Freedom of Information Act (FOIA) Program, for requirements.

Ref Blk 11c: Any classified information generated in the performance of this contract shall require the contractor to apply derivative classification and markings consistent with the source material.

Ref Blk 11d: The contractor is required to provide adequate and approved storage for classified hardware or material to the level of SECRET which because of size or quantity cannot be safeguarded in an approved storage container.

Program Manager: Monica Stucke, monica.stucke@us.af.mil, 937-255-6692

Security Manager: David Hanson, david.hanson.17@us.af.mil, 937-938-4921

Ref Blk 17f: AFRL.RQEASTDL-Security@us.af.mil, AFRL/RQOS, 2130 8th Street, Wright-Patterson AFB, OH 45433

14. ADDITIONAL SECURITY REQUIREMENTS. Requirements, in addition to ISM requirements, are established for this contract. Yes No
(If Yes, identify the pertinent contractual clauses in the contract document itself, or provide an appropriate statement which identifies the additional requirements. Provide a copy of the requirements to the cognizant security office. Use Item 13 if additional space is needed.)

Ref Blk 11j: OPSEC requirements apply. See Statement of Work (SOW) for requirements.

Ref Blk 10k: Program Protection Plan (PPP) will be provided by the Government activity.

15. INSPECTIONS. Elements of this contract are outside the inspection responsibility of the cognizant security office. Yes No
(If Yes, explain and identify specific areas or elements carved out and the activity responsible for inspections. Use Item 13 if additional space is needed.)

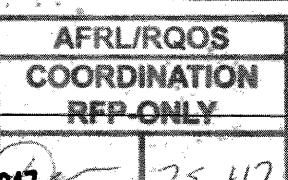
Ref Blks 10a/11h: COMSEC oversight TBD.

16. CERTIFICATION AND SIGNATURE. Security requirements stated herein are complete and adequate for safeguarding the classified information to be released or generated under this classified effort. All questions shall be referred to the official named below.

a. TYPED NAME OF CERTIFYING OFFICIAL	b. TITLE	c. TELEPHONE (Include Area Code)
Randall Wallace	Contracting Officer	937-713-9820

d. ADDRESS (Include Zip Code)

2130 8th Street
WPAFB, Ohio 45433



e. SIGNATURE

 SEP 20 2017 750pt17

17. REQUIRED DISTRIBUTION

<input checked="" type="checkbox"/>	a. CONTRACTOR
<input type="checkbox"/>	b. SUBCONTRACTOR
<input checked="" type="checkbox"/>	c. COGNIZANT SECURITY OFFICE FOR PRIME AND SUBCONTRACTOR
<input type="checkbox"/>	d. U.S. ACTIVITY RESPONSIBLE FOR OVERSEAS SECURITY ADMINISTRATION
<input type="checkbox"/>	e. ADMINISTRATIVE CONTRACTING OFFICER
<input type="checkbox"/>	f. OTHERS AS NECESSARY

Representations and Certifications to be released with formal BAA.