Call for Solution for Advanced Manufacturing Composite Print Capability

Project Number	PANRSA-26-P-0000 037193
Army Open Solicitation (AOS) Number	W9128Z-25-S-A002
Call for Solution Title	Call for Solution for Advanced Manufacturing Composite Print Capability
Issued By	Army Contracting Command – Redstone Arsenal (ACC-RSA) Redstone Services and Information Technology Solutions Branch (CCAM-CAC-B)
Submission Instructions	To respond to this Call for Solution, please refer to Sections 7 and 10 of this Call for Solution
*Solution Briefs Due Date/Time (Suspense)	June 30, 2026, 12:00 PM Central Standard Time
Point of Contacts (POCs) for Solution Brief Submission:	Contracting Officer: Portia Sampson, Portia.r.sampson.civ@army.mil Contract Specialist: Morgan McGee, Morgan.p.mcgee2.civ@army.mil

**Any submissions that are received by the Contracting Officer after the suspense date/time listed above will be deemed late and not evaluated. It is the sole responsibility of the company to ensure that its submission is received in the inbox listed above before the deadline specified.*

This Call for Solution may result in the Government awarding Federal Acquisition Regulation (FAR) contracts or non-FAR agreements in accordance with Defense Federal Acquisition Regulation Supplement (DFARS) 212.70 – Defense Commercial Solutions Opening. This Call for Solution, and any Other Transaction (OT) that may be awarded from this Call for Solution, is not subject to the FAR or its supplements.

1. BACKGROUND

The US Army recognizes the need for accelerated modernization of weapon systems through Advanced Manufacturing (AdvM) technologies that directly address issues and challenges in the supply chain to underpin readiness of Army materiel. In Accordance With (IAW) Army Regulation (AR) 750-1 (Army Materiel Maintenance Policy) and companion Department of the Army Pamphlet (DA PAM) 750-1 (Army Materiel Maintenance Procedures), Commanders, U.S. Army Organic Industrial Base (OIB) activities will develop additive and advanced capabilities consistent with Army Materiel Command (AMC) guidance to produce Original Equipment Manufacturer (OEM) quality parts for use to meet obsolescence and other readiness requirements as required.

This Call for Solution aims to establish AdvM Composite print capability at Corpus Christi Army Depot (CCAD), Corpus Christi, TX.

2. PROBLEM STATEMENT

The U.S. Army Aviation and Missile Command (AMCOM) require immediate integration of AdvM Composite capability at Corpus Christi Army Depot (CCAD) to address critical readiness gaps in aviation maintenance operations. Current supply chain constraints result in extended lead times for obsolete and low-demand repair parts, directly impacting Aircraft on Ground (AOG) rates and operational readiness across rotary-wing platforms. The integration of material extrusion technology will enable CCAD to rapidly fabricate qualified parts, tools, jigs, fixtures, and ground support equipment in accordance with applicable airworthiness qualification requirements.

While standard Commercial Off-The-Shelf (COTS) 3D printers are generally limited to low-temperature prototyping using standard plastics (e.g., Polylactic Acid (PLA) or Polyethylene Terephthalate Glycol (PETG)), the required Advanced Manufacturing (AdvM) composite printer represents an innovative leap in additive manufacturing capabilities. This system incorporates a novel application of advanced thermodynamic control methods integrating actively heated build chambers, liquid-cooled extrusion systems, and ultra-high-temperature print heads into a highly compact, deployable footprint. This innovative process enables the rapid, reliable extrusion of aerospace-grade, fiber-reinforced super-polymers (such as continuously reinforced fiber polymer, Nylon White, Carbon Fiber, Fiberglass, Aramid Fiber (Kevlar®), High-Strength High-Temperature (HSHT) Fiberglass). The core innovation lies in this new method of applying industrial-grade thermal management to a decentralized platform, allowing for the on-demand fabrication of highly durable, mission-ready composite parts at the installation level.

3. DESIRED SOLUTION OBJECTIVES

The U.S. Army AMCOM is seeking one (1) AdvM Composite printer for immediate integration at CCAD. Any offered solutions shall be inclusive of the following: shipping costs with onsite installations to include all heavy equipment handling, ancillary equipment, operating software, warranties, feedstock, training, sustainment to include preventative maintenance and repair, and on-demand technical support.

Initial training for the AdvM composite printer shall consist of up to four days of instruction for up to five personnel at the installation location. The selected source shall provide a training certificate of completion for each CCAD personnel trained.

Refer to Table 1: Description of Supplies - CCAD

Solutions shall be capable of meeting the following requirements:

- Build Envelope (XYZ)
    - Printer 1: Minimum 20.7 in. x 15.7 in. x 15.7 in.
- Build Accuracy
    - Printer 1: +/- 125 µm or +/- 0.0015 mm per mm
- Network Communication: desktop to printer and over-the-air updates via Ethernet.
- Security: Two-factor authentication, org admin access, single sign-on, MFP print files encrypted by default and tamper resistant.
- Power Requirements:
    - 200-240 VAC 3PH, 14A, 8kW.
- The Operating System shall include but not limited to secure digital library, powerful slicers, and printer management. Software licensing requirements shall be addressed in the proposal response.
- Regulatory Compliance at a minimum shall be IAW European Conformity (CE), Federal Communications Commission (FCC) Part B.
- Print Materials shall be inclusive of but not limited to continuously reinforced fiber polymer, Nylon White, Carbon Fiber, Fiberglass, Aramid Fiber (Kevlar®), High-Strength, High-Temperature (HSHT) Fiberglass. Material licensing requirements shall be addressed in the proposal response.

Proposals shall include the following:

- All required ancillary equipment to include but not limited to post processing systems.
- Facility transformers for power requirements.
- No less than four (4) year printer warranties.
- Support to include but not limited to phone support, unlimited on-site support with first line on site response, preventative maintenance, spare parts, service consumables, hardware & software updates, on-site user training courses.

No.	Description	UOM	QTY	Duration	Requested Delivery	CLIN	Location	Note
1	Composite Printer - Build Envelope 20.7 x 15.7 x 15.7 in.	Each	1	3 Months	3 Months ARO	0001	CCAD	Shall be inclusive of all necessary accessories.
2	Power Cord	Each	1	3 Months	3 Months ARO	0002	CCAD	
3	Materials	Each	1	3 Months	3 Months ARO	0003	CCAD	
4	Consumables	Each	1	3 Months	3 Months ARO	0004	CCAD	
5	Composite Printer - IUID Tag	Each	1	3 Months	3 Months ARO	0005	CCAD	
6	1 Year Subscription for offline Private LAN to printer connection	Year	1	1 Year	1 Year ARO	0006	CCAD	
7	3 Year Subscription for offline Private LAN to printer connection	Year	1	3 Years	3 Years ARO	0007	CCAD	
8	1 Year Software, Support, and Training Tiered Service Plan	Year	1	1 Year	1 Year ARO	0008	CCAD	
9	3 Year Software, Support, and Training Tiered Service Plan	Year	3	3 Year	3 Years ARO	0009	CCAD	
10	Facility Power Conversion Equipment	Each	1	3 Months	3 Months ARO	0010	CCAD	
11	Composite Printer - Onsite Installation & Training	Each	1	30 Days	4 Months ARO	0011	CCAD	4 days onsite training for up to 5 personnel
12	Printer Shipping	Each	1	30 Days	4 Months ARO	0012	CCAD	

Table 1: Description of Supplies – CCAD

4. AWARDING INSTRUMENT

This In accordance with Open Solicitation Procedures detailed within W9128Z-25-S-A002[1], the Government intends to award FAR Part 12, Firm-Fixed-Price (FFP) type contract(s) as a result of this Call. The Government further reserves the right to reward to all, some, or none of the companies who submit proposals. This Call for Solution will utilize Commercial Solutions Opening (CSO) procedures. Use of a CSO in accordance with DFARS subpart 212.70 is considered to be a competitive procedure for the purposes of 10 U.S.C. chapter 221 and FAR subpart 6.102.

5. SOLICITATION NOTES

In In The response process for this Call will generally consist of the following phases:

Phase 1: Solution Brief

Offerors will submit a high-level summary of their proposed solution, addressing the government's objectives and requirements.

Phase 2: Pitch (unless bypassed)

Selected offerors may be invited to present and discuss their solution in a live or virtual setting.

Phase 3: Solution Proposal

Offerors advancing to this phase will be invited to submit a detailed proposal for final evaluation and potential award.

[1] https://sam.gov/workspace/contract/opp/cca74bd099c04e1f9b88018c995a248e/view

Detailed submission requirements for Phase 1 are provided in Section 6. Evaluation criteria for Phase 1 are outlined in Section 7. Phase 2 and/or Phase 3 submission requirements and evaluation criteria will be provided via subsequent invitation letters.

5.2 General Notes

- Offerors are reminded that all awards are subject to the availability of funds and the Government reserves the right to make multiple awards, a single award, or no award as a result of this Call.
- Only a Contracting or Agreements Officer has the authority to enter into, modify, or execute a binding instrument on behalf of the United States Government. All payment obligations are subject to Congressional appropriations.
- In order to be eligible for award, offerors must:
  - Possess a Unique Entity ID (UEI) and be registered in the System for Award Management (SAM) prior to award and maintain active registration throughout the period of performance.
  - Register in the prescribed government invoicing system (e.g., Wide Area Workflow).
  - Accurately represent their small business size and status as required.
  - Be determined responsible by the Contracting/Agreements Officer and not be suspended, debarred, or otherwise prohibited from receiving an award.
  - Disclose any actual or potential Organizational Conflicts of Interest (OCIs) to the Contracting/Agreements Officer prior to award.

In addition to the general guidelines included in the solicitation referenced in the parent solicitation, the following guidelines apply to this Call for Solution:

- Offerors are responsible for monitoring SAM.gov for any amendments to this solicitation that may have updated information.
- The Government will give preference to submissions that demonstrate an innovative, existing, and verifiable ability to accomplish the desired solution attributes listed in Section 3.
- All solution briefs will be valid for 180 calendar days after the submission date.
- Submissions must identify any intellectual property involved in the effort and any associated restrictions on the Government's use of that intellectual property.
- The Government reserves the right to go directly from a submission to an award.
- The Government reserves the right to award more than one (1) award resulting from this Call for Solution or to make no award.

6. GENERAL INFORMATION AND QUESTIONS

Questions are to be sent only to the Points of Contact (POCs) listed in this Call for Solution. The following shall be utilized in the email subject line: 'Call for Solution - Advanced Manufacturing Composite Print Capability'/ W9128Z-25-S-A002 *(Question regarding section #)*. Material questions and answers will be published and updated on SAM.gov.

The deadline to submit questions for Phase I is Wednesday, 24th of June 2026 12:00 PM CDT.

7. SOLUTION SUBMISSION REQUIRMENTS

The Government will utilize up to three (3) phases for assessing solutions:

7.1. Phase 1 – Solution Brief Content

Solution Briefs shall not exceed five (5) written pages using 12-point Times New Roman font or, alternatively, may take the form of briefing slides not exceeding fifteen (15) slides. The Government will not consider inserted textboxes/pop-ups or internet links to additional information as part of the Solution Brief and will not consider such information in its evaluation. Solution Briefs are intended to be clear and concise.

Solution Briefs shall include the following at a minimum:

a. Title Page (does not count against page limit)

i. Company Name, Title, Date, Point of Contact Name, E-Mail Address, Phone, Address, and Call reference number. If registered in SAM.gov, include the Commercial and Government Entity (CAGE) code and Unique Entity Identification (UEI) code.

ii. Specifically identify the Call for which the Solution Brief is submitted.

b. Executive Summary (one page)

i. Provide an executive summary of the technology.

c. High-Level Technology Solution/Concept

i. Describe the unique aspects of your solution/concept and its relevance to the respective Call/Topic.

ii. Explain whether the solution/concept is innovative and/or a potential capability.

iii. Describe how your proposed solution/concept solves a capability gap/problem and/or provides innovative technological advancements.

iv. Outline the capabilities and scalability of the solution/concept.

v. Describe the benefits of your solution/concept as it applies to the respective Call/Topic.

vi. Explain how the proposed technical approach is feasible, achievable, and supported by a technical team with the expertise and experience to accomplish the proposed solution/concept.

vii. Provide a proposed project schedule and total estimated out-the-door price and describe how the proposed schedule is achievable for the proposed solution/concept.

viii. If Commercial Solutions Opening (CSO), identify whether the proposed solution/concept includes a pilot or demonstration of an existing commercial technology (identified as commercially

ready and viable technology), or the development of technology for potential defense application. If development or adaptation is proposed, identify a suggested path to mature the technology. Identify aspects which may be considered proprietary.

d. Company Viability

i. Provide a brief overview of the company. Include a summary of current fundraising to date or a summary of top-line (gross sales/revenues).

ii. If CSO, provide a summary of product/solution commercialization and go-to-market strategy.

e. Affirmation of Business Status Certification (does not count against page limit) Note: Only required for OTs.

i. Include documentation for each company that would be a participant in the solution/concept (see Attachment X).

f. Intellectual Property Statement/Agreement/Disclosures (does not count against page limit)

i. As needed, include a separate disclosure for each company that would be a participant in the solution/concept.

The Government may be unable to evaluate the Solution Brief if a Company fails to provide the information requested above.

7.2 Phase 2 – Pitch

Phase 2 submission requirements and evaluation criteria will be outlined in the invitation to this phase, unless bypassed.

7.3 Phase 3 – Proposal

Phase 3 submission requirements and evaluation criteria will be outlined in the invitation to this phase.

8. NON-GOVERNMENT ADVISORS

Non-government advisors will not participate in the evaluation process.

9. ORGANIZATIONAL CONFLICT OF INTEREST (OCI)

The Offeror shall perform an OCI analysis and submit the results of that analysis in addition to the white paper submission. The OCI analysis does not count towards the 5-page limitation. Specifically, the Offeror shall analyze the planned acquisition for actual or potential OCI situations associated with the Offeror or any of the Offeror's proposed teammates or subcontractor's performance under any contract or agreement the Offeror or the Offeror's teammates or subcontractors has been or may be awarded by any federal agency or other entity. The Offeror shall describe in detail the methodology used to identify actual or potential OCI issues. If the Offeror identifies any actual or potential OCIs with respect to the performance of the Offeror or the Offeror's subcontractors or teammates, the contractor shall provide an OCI Mitigation Plan to be incorporated as an attachment to any resulting contract or

agreement.

Any proposed avoidance or mitigation techniques shall be consistent with FAR 9.5 and the most recent decisions of the Government Accountability Office (GAO) and the U.S. Court of Federal Claims.

10. EVALUATION CRITERIA

The Government will evaluate submissions based on their potential to satisfy the needs of HQ AMC. Proposals will be evaluated on their own technical merit and not against other submissions. All evaluation factors other than cost or price, when combined, are significantly more important than cost or price. The evaluation factors are listed below in descending order of importance:

1. Technical Merit and Relevance: The solution's applicability to the Areas of Interest, its scientific and technical feasibility, and its potential to significantly enhance HQ AMC and OIB capabilities.

2. Innovation and Uniqueness: The degree to which the proposed solution is new, underutilized, or uniquely applied to solve an Army problem.

3. Company Viability: The offeror's ability to execute the proposed effort, including relevant corporate experience, personnel qualifications, and a sound business model.

4. Price and Affordability: The reasonableness of the proposed price and the overall affordability of the solution for the Government. Price will be considered to the extent appropriate to determine fairness and reasonableness.

Notice to offerors: The use of Artificial Intelligence (AI) tools may be used during evaluations. Any AI tools utilized by the Government will be employed in a manner consistent with applicable regulations that govern the protection of proprietary and source selection sensitive information. No proposal data will be transmitted to or processed by external, non-Government systems without appropriate safeguards and authorizations in place.

11. ANTITERRORISM (AT), OPERATIONS SECURITY (OPSEC)

AT Level I Awareness training. All contractor employees, including subcontractor employees, requiring access to Army installations, facilities and controlled access areas shall complete AT Level I Awareness training within 30 calendar days after contract start date or effective date of incorporation of this requirement into the contract, whichever is applicable. The contractor shall submit certificates of completion for each affected contractor employee and subcontractor employee, to the COR or to the contracting officer, if a COR is not assigned, within 15 calendar days after completion of training by all employees and subcontractor personnel. AT level I Awareness training is available at the following website: http://jko.jten.mil.

Access and general protection/security policy and procedures. Contractor and all associated subcontractor employees shall provide all information required for background checks to meet installation access requirements to be accomplished by installation Provost Marshal Office, Director of Emergency Services or Security Office. Contractor workforce must comply with all personal identity verification requirements (FAR clause 52.204-9, Personal Identity Verification

of Contractor Personnel) as directed by DOD, HQDA and/or local policy. In addition to the changes otherwise authorized by the changes clause of this contract, should the Force Protection Condition (FPCON) at any individual facility or installation change, the Government may require changes in contractor security matters or processes.

For contractors that do not require CAC, but require access to a DoD facility or installation. Contractor and all associated sub-contractors employees shall comply with adjudication standards and procedures using the National Crime Information Center Interstate Identification Index (NCIC-III) and Terrorist Screening Database (Army Directive 2014-05/AR 190-13), applicable installation, facility and area commander installation/facility access and local security policies and procedures (provided by government representative); or, at OCONUS locations, in accordance with status of forces agreements and other theater regulations.

iWATCH Training. The contractor and all associated sub-contractors shall brief all employees on the local iWATCH Army program (training standards provided by the requiring activity ATO). This local developed training will be used to inform employees of the types of behavior to watch for and instruct employees to report suspicious activity to the COR. This training shall be completed within 30 calendar days of contract award and within 30 calendar days of new employees commencing performance with the results reported to the COR NLT 30 calendar days after contract award.

For contracts that require OPSEC Training. Per AR 530-1, *Operations Security*, the contractor employees must complete Level I OPSEC Awareness training. New employees must be trained within 30 calendar days of their reporting for duty and annually thereafter.