Call for Solution for:
Portable Phased Array Ultrasonic Flaw Detection Capability

Project Number	PANRSA-26-P-0000 037988
Army Open Solicitation (AOS) Number	W9128Z-25-S-A002
Call for Solution Title	Portable Phased Array Ultrasonic Flaw Detection 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)	7/9/2026 at 12:00 PM Central Time
Point of Contacts (POCs) for Solution Brief Submission:	Contracting Officer: Portia R. Sampson, portia.r.sampson.civ@army.mil Contract Specialist: Benjamin Hymas, benjamin.c.hymas.civ@army.mil

Note 1: 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.

Note 2: 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

To underpin fleet readiness and accelerate the modernization of weapon systems, the U.S. Army is seeking advanced Non-Destructive Test (NDT) solutions—specifically, Phased Array Ultrasonic Flaw Detection capabilities tailored for aviation part inspections. In accordance with Army Regulation (AR) 750-1, the Army Materiel Command (AMC) mandates that Organic Industrial Base (OIB) activities integrate advanced NDT capabilities into their operations. The integration of this technology will allow the Army to more accurately validate repairs and overhauls, thereby refreshing and extending the life cycle of critical aviation assets before they are redeployed to the warfighter.

This call for solution aims to establish a portable phased array ultrasonic flaw detection capability at Corpus Christi Army Depot (CCAD), Corpus Christi, TX.

2. PROBLEM STATEMENT

To address critical readiness gaps in aviation maintenance operations, the U.S. Army Aviation and Missile Command (AMCOM) requires the immediate integration of a portable phased array ultrasonic flaw detection system at Corpus Christi Army Depot (CCAD). This system hereafter referred to as the "NDT Capability" is vital to modernizing Army maintenance workflows. Successfully integrating an agile NDT Capability will empower CCAD to rapidly and reliably test newly fabricated advanced manufacturing parts, as well as traditionally repaired and overhauled equipment, ensuring flawless performance before fielding.

3. DESIRED SOLUTION OBJECTIVES

U.S. Army AMCOM is seeking a comprehensive, turnkey NDT Capability for immediate integration at CCAD. Vendors must deliver a fully operational capability rather than just standalone hardware. Therefore, any offered solution must be strictly all-inclusive. Proposals shall account for the core system along with required ancillary equipment and shipping costs. To guarantee long-term operational success, the solution must also bundle full system warranties coverage for up to three (3) years and on-demand technical support. Supplies shall consist of the items defined in Table 1 (Description of Supplies – CCAD).

Solutions shall be capable of meeting the following requirements:

The turnkey NDT capability shall be a portable, battery-operated, phased array ultrasonic flaw detector. The unit shall be ruggedized to meet MIL-STD-810G drop-testing standards and have an Ingress Protection rating of IP65 or higher to ensure durability and resistance to dust and water. The operating temperature range shall be at a minimum from -10°C to 45°C. The device shall not exceed 6 kg in weight and must include at least two hot-swappable batteries, providing a minimum of 5 hours of continuous operation. The system must include an additional set of probes and wedges for the inspection of complex geometries and anisotropic material structures of metal additive manufactured components.

For data acquisition and analysis, the system must support multiple ultrasonic testing techniques including, but not limited to, Phased Array Ultrasonics (PAUT), Time-of-Flight-Diffraction (TOFD), Total Focusing Method (TFM), and Phase Coherence Imaging (PCI). The system must be no less than a 5 pulser receiver 64/128 configuration. The system must feature a large, high-resolution color touchscreen display of at least 10 inches with a minimum resolution of 1280x768 pixels. It must be equipped with at least 1 TB of internal solid-state storage and support data transfer via USB and SD cards. The system must also provide

modern wireless connectivity, including Wi-Fi 6E and Bluetooth 5.3.

The system shall possess advanced acoustic specifications, including a wide pulse voltage range and a system bandwidth of at least 0.2 MHz to 26.5 MHz. The unit must be capable of supporting a variety of phased array probes and scanners to perform comprehensive inspections on a wide range of materials and geometries, including metal additive manufactured components, welds and corrosion mapping. It must also have an open-code Application Programming Interface (API) to allow for integration with external software and the development of custom applications.

Proposals shall include the following:

- System and Logistics: Proposals must account for the core NDT system, all required ancillary equipment, additional probe & wedge set, and comprehensive shipping costs to CCAD.
- Warranty Coverage: The solution must bundle a full system warranty for a duration of up to three (3) years to ensure long-term reliability and mission readiness.
- Technical Support: Provision of on-demand technical assistance is required to guarantee long-term operational success and minimize equipment downtime.

No.	Description	UOM	QTY	Duration	Requested Delivery	CLIN	Location
1	Portable Phased Array Ultrasonic Flaw Detection System	Each	1	-	3 Months ARO	0001	CCAD
2	Probe and Wedges	Each	1	-	3 Months ARO	0002	CCAD
3	2 Year - Extended Warranty	Months	1	24	1 Years ARO	0003	CCAD
4	Shipping - CCAD	Each	1	-	3 Months ARO	0004	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 award 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. CALL INSTRUCTIONS AND NOTES

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.

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

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.

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 Work Flow).

  - 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 - Portable Phased Array Ultrasonic Flaw Detection Capability'.

Material questions and answers will be published and updated on SAM.gov.

The deadline to submit questions for Phase I is Thursday 7/02/2026 at 12:00 PM Central Time.

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.