Call for Solution for Advanced Manufacturing
Industrial 3D X-Ray and Computed Tomography (CT) Capability

Project Number	PANRSA-26-P-0000 037977
Army Open Solicitation (AOS) Number	W9128Z-25-S-A002
Call for Solution Title	Advanced Manufacturing Industrial 3D X-Ray and Computed Tomography (CT) 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)	01 July 2026 at 12:00 PM Central Daylight 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 U.S. 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 large-format, high-resolution Industrial 3D X-Ray and Computed Tomography (CT) system to conduct Non-Destructive Testing (NDT) at Corpus Christi Army Depot (CCAD), Corpus Christi, TX.

2. PROBLEM STATEMENT

The U.S. Army Aviation and Missile Command (AMCOM) requires immediate integration of a large-format, high-resolution Industrial 3D X-Ray and Computed Tomography (CT) system to conduct nondestructive testing (NDT) at CCAD. This technology will modernize the acquisition of obsolete and low-demand repair parts, streamline maintenance workflows and improve overall depot-level support. The integration of high-resolution Industrial 3D X-Ray and Computed Tomography (CT) will enable CCAD to rapidly assess multi-layered, high density aircraft assemblies and components. This capability will increase throughput and aviation readiness throughout the fleet.

3. DESIRED SOLUTION OBJECTIVES

The U.S. Army Aviation and Missile Command (AMCOM) seek solutions for a large-format, high-resolution Industrial 3D X-Ray and Computed Tomography (CT) system to conduct Non-Destructive Testing (NDT) on large, high-density, and complex assemblies. The proposed solution must feature a robust scanning envelope and a heavy-duty manipulator capable of accommodating large-scale aerospace, ordnance, or advanced manufacturing components. Minimum technical capabilities must include a high-energy X-ray source (up to 450 kV) with support for micro-focus and mini-focus configurations, coupled with a high-resolution digital detector array (DDA) or linear diode array (LDA). The system must be equipped with advanced scanning modalities, including helical scanning for elongated parts, multi-image stitching for oversized assets, and sub-pixel resolution enhancement. Additionally, the solution requires a fully integrated, Digital Imaging and Communication in Nondestructive Evaluation (DICONDE)-compliant software suite capable of seamless 3D reconstruction, dimensional metrology, and advanced defect recognition.

Refer to Table 1: Description of Supplies - CCAD for a detailed list with duration and delivery timeframe.

Solutions shall be capable of meeting the following requirements:

- Radiation Cabinet/Enclosure
    - Modular expanding, heavy-duty radiation-shielded walk-in enclosure with automated double-sliding doors and integrated interior safety cameras.

- Part Weight Capacity
    - Minimum weight capacity of 5,000 lbs. (453 kg) on the internal rotary axis stage without degradation of motion precision or rotation speed.
- Scanning Envelope & Travel
    - Horizontal travel (X-axis): Minimum 43 inches (127 cm).
    - Vertical travel (Y-axis): Minimum 50 inches (190 cm).
    - Rotary stage (Z-axis): Full 360-degree continuous rotation.
- X-Ray Source
    - 450 kV micro-focus tube combining deep high-energy penetration and micro-resolution (~2 micron focal spot size) in a single, high-duty-cycle source.
- Detector System
    - Dual-detector configuration utilizing both a high-resolution Digital Flat Panel Detector (DDA) and a Linear Diode Array (LDA) to minimize scatter on high-density alloys and composite interfaces.
- Advanced Modalities
    - Autonomous Automated Defect Recognition (ADR) algorithms for repeatable batch scanning, paired with programmable CNC stage automation or integrated robotic manipulation.
- Software & Compliance
    - Native export compatibility with standard military CAD formats (e.g., STEP, IGES) combined with direct integration into standard Army logistics and maintenance, repair and overhaul (MRO) tracking databases such as GCSS-Army.
- Offered solutions shall be produced in the continental United States.

Proposals shall include the following:

- All required ancillary equipment to support a turnkey solution ready to use at CCAD.
- Facility transformers for power requirements.
- Extended warranty for a minimum of two (2) years in addition to the one (1) year warranty included with the 3D X-Ray and Computed Tomography solution for a total of three (3) warranty years.
- Preventative Maintenance (PM) for a minimum of two (2) years in addition to the one (1) year included with the 3D X-Ray and Computed Tomography solution for a total of three (3) PM years. PM shall be inclusive of regular inspections of vital components; leak checks; burnouts; oil changes and other maintenance tasks; calibrations; regular cleaning of all components; inspections of all switches and safety interlocks; service

technician support for onsite repairs and troubleshooting with onsite support arriving no later than (NLT) 48 hours after initiating a service request (Monday – Friday); and remote technical support during CCAD business hours.

- Site Acceptance Testing (SAT) inclusive of testing and inspection.

- The proposal response shall include costs for 100% turnkey onsite installation at CCAD inclusive of heavy equipment movers/riggers and all required equipment (e.g., rigging equipment, forklift), personnel to complete the assembly, leveling, alignment, anchoring, and SAT; and all required electrical and piping materials for connection to CCAD's utility systems shall be shipped to CCAD NLT 90 days prior to system delivery for CCAD facility modifications.

- The selected source shall provide a point of contact (POC) for coordination with CCAD and oversight from shipment through SAT completion, to include conducing an initial site survey with a written installation plan with supporting installation drawing(s) and a bill of material (BOM) identifying all required facility modifications and utility connections NLT 90 days prior to system delivery. The POC is responsible for working with the CCAD POC(s) to ensure compliance with all CCAD Naval Air Station (NAS) code, safety, and security requirements.

- Training shall consist of comprehensive, American Society for Nondestructive Testing (ASNT)-aligned, on-site training program for up to four (4) CCAD personnel following installation. Curriculum scope must include radiation safety, physical system operation, and advanced 3D NDT software/metrology (Level I and Level II equivalents). The selected source shall provide a training certificate of completion for each CCAD personnel trained.

- The selected source shall provide documentation confirming compliance with all Anti-Terrorism and Operational Security (AT/OPSEC) requirements for any personnel supporting the as detailed in paragraph 11 of this Call for Solutions NLT thirty (30) days prior to arrival at CCAD for the site survey, installation, and any PM-related activities.

CLIN	Description	UOM	QTY	Duration	Requested Delivery
0001	3D X-Ray and Computed Tomography (CT) System	Each	1	-	8 Months ARO
0002	Ancillary Equipment for Turnkey Solution	Lot	1	-	8 Months ARO (Delivered with CLIN 0001)
0003	Facility Transformers	Lot	1	-	8 Months ARO (Delivered with CLIN 0001)
0004	Electrical and Piping Materials	Lot	1	-	5 Months ARO (90 Days Prior to System Delivery)
0005	Installation Plan, Drawings, and Bill of Materials (BOM)	Lot	1	-	5 Months ARO (90 Days Prior to System Delivery)
0006	Onsite Installation and Site Acceptance Testing (SAT)	Each	1	-	Begins 8 Months ARO (Upon System Delivery)
0007	On-site Training for 4 Personnel (Level I & II)	Lot	1	-	Within 9 Months ARO (Immediately following SAT)
0008	Software & Automation Suite	Each	1	-	8 Months ARO (Delivered with CLIN 0001)
0009	VG Studio MAX 64bit Cast & Mold Package	Each	1	-	8 Months ARO (Delivered with CLIN 0001)
0010	Base Warranty & Preventative Maintenance (PM)	MO	1	12 Months	Starts Upon Successful SAT
0011	Extended Warranty	MO	2	24 Months	Starts Upon Completion of CLIN 0010
0012	Extended Preventative Maintenance (PM)	MO	2	24 Months	Starts Upon Completion of CLIN 0010

Table 1: Description of Supplies - CCAD

4. AWARDING INSTRUMENT

In accordance with Open Solicitation Procedures detailed within W9128Z-25-S-A002, the Government intends to award FAR Part 12, Firm-Fixed-Price (FFP) type contract(s) as a result of this Call. The Government reserves the right to award 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 a competitive procedure for the purposes of 10 U.S.C. chapter 221 and FAR subpart 6.102.

5. SOLICITATION 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.

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.
- 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.

      https://sam.gov/workspace/contract/opp/cca74bd099c04e1f9b88018c995a248e/view

- 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 Industrial 3D X-Ray and Computed Tomography (CT) Capability *(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 at 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 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 the Government's SOO. 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 Government's SOO, 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)

Offerors shall ensure that the following required language is included in the proposed SOW.

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.