Area of Interest (AoI): TIGER Hackathon – Supply Chain Resilience and Advanced Manufacturing

Agency: Department of the Army
Program: Integrated Logistics Support Center (ILSC) and Capability Program Executive (CPE) Ground
Platform: Abrams Main Battle Tank –Total InteGrated Engine Revitalization (TIGER) of the Automotive Gas Turbine (AGT) 1500 Engine

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1.0 Background and Problem Statement

Section	Description
Background	Issued under the ACC-DTA Ground Maneuver Commercial Solutions Opening (CSO), this AoI seeks innovative solutions to resolve critical sourcing and manufacturing bottlenecks for the AGT 1500 engine while establishing comprehensive Right to Repair capabilities for the Government. The system's Original Equipment Manufacturer (OEM) is currently experiencing severe supply chain constraints regarding approximately 166 critical and single source components directly impacting delivery timelines and fleet readiness. To mitigate future vendor lock-in, proposed solutions must include provisions for delivering the necessary technical data rights, unrestricted diagnostic access, and intellectual property required to enable organic or competitive third-party maintenance, repair, and manufacturing.
Problem Statement	The Army requires resilient, diversified, and modernized supply chain solutions for these 166 critical and single source components. We are seeking industry partners capable of providing alternative manufacturing, supply, and raw material solutions to radically improve production timelines, bypass current bottlenecks, and maintain operational readiness for the Abrams platform.

2.0 Industry Day Engagement

To facilitate direct collaboration, the Government will host an Industry Day. Participants will have the opportunity to physically inspect the AGT 1500 engine and available components, and engage in technical discussions directly with ILSC, CPE Ground, and OEM subject matter experts.

Event Element	**Details**
Event Name	TIGER Hackathon - Supply Chain Resilience and Advanced Manufacturing
Date & Time	14 July 2026, Start Time TBD

Location	DEVCOM, Ground Vehicle Systems Center (GVSC) 6501 E. Eleven Mile Road, Detroit Arsenal, Michigan 48397
Registration Deadline	18 June 2026, 1200 EST

3.0 Core Objectives and Vendor Response Requirements

To effectively evaluate potential partners, vendors must explicitly identify which of the following three objectives its solutions address from the 166 Critical and Sole Sourced Components List. Responses must include the specific capability details outlined under each targeted objective.

Objective 1: Traditional Second Source

Description: Establish reliable, secondary manufacturing and supply lines for any or all of the 166 critical and single source components. The goal is to diversify the industrial base, reduce supply bottlenecks, and ensure continuous availability of these components.

Requirement Category	Specific Information Required from Vendor
Targeted Component Families	Identification of which specific components (or types of components, e.g., gears, shafts, housing) from the 166 Critical and Sole Sourced Components List your company has the capability to manufacture.
Machining & Tooling Capacity	Detailed list of traditional manufacturing infrastructure (e.g., multi-axis CNC milling, turning, grinding) and tolerances your company can reliably hold (e.g., +/- .0001 inches).
Machining & Tooling Capability	Capability to fabricate parts using legacy 2D TDP.
Past Performance	Proven experience executing complex Department of War (DoW) or aerospace Technical Data Packages (TDPs), including taking a Government TDP through First Article Testing (FAT) to full-rate production.
Production Scalability	Estimated monthly or annual production throughput for the targeted components, including surge capacity management.
Testing & Inspection	In-house capabilities for Coordinate Measuring Machine (CMM) inspections, non-destructive inspection (NDI), and material hardness testing.

Objective 2: Advanced Manufacturing

Description: Leverage advanced manufacturing technologies (e.g., additive manufacturing, automated precision machining, digital twin integration) to rapidly produce components from the 166 critical and single source components list while strictly adhering to specifications and quality standards.

Requirement Category	Specific Information Required from Vendor
Technology Modality	Specification of the exact Advanced Manufacturing technologies utilized (e.g., Laser Powder Bed Fusion, Directed Energy Deposition, Cold Spray) and available build envelope sizes.
Digital Engineering	Demonstrated capability to convert 2D legacy TDPs into 3D solid models, including the use of Digital Twins to simulate thermal and mechanical stresses.
Material Equivalency	Strategy detailing how the vendor will prove that its advanced manufactured component meets or exceeds the mechanical properties of the originally specified cast or forged component.
Post-Processing	Specific infrastructure for critical post-print operations, such as Hot Isostatic Pressing (HIP), advanced heat treating, and final precision CNC machining.
Adv Mfg Qualification	Experience with existing DoW or FAA qualifications and certification pathways for additively manufactured components in critical propulsion systems.

Objective 3: Material Provision

Description: Supply critical raw materials, forgings, castings, and structural elements. Solutions in this category must demonstrate how the provision of these materials will unlock constraints, accelerate production cycles, and improve overall delivery times for the targeted components.

Requirement Category	Specific Information Required from Vendor
Foundry & Forge Capabilities	Details on domestic pouring capacity, press tonnage, maximum component sizing, and specific alloy expertise (e.g., high-temperature superalloys, titanium).
Supply Chain Mapping	Confirmation of compliance with the Trade Agreements Act (TAA) and Buy American Act, explicitly stating no reliance on adversarial foreign nations for critical minerals.
Lead Time Reduction	Narrative explaining how material provision will accelerate the current production cycle (e.g., strategic stockpiles, faster tooling/die creation methods).
Tooling Independence	Capability to rapidly design and manufacture new molds, dies, or patterns for castings/forgings without relying on the OEM's proprietary tooling.

Material Traceability	Processes for maintaining end-to-end lot traceability, providing certified mill test reports, and ensuring adherence to military material specifications (MIL-SPEC).

4.0 Submission Instructions and Security Requirements

Attendance at the Industry Day is limited and requires Government approval. Interested vendors must submit a 2-Page Statement of Interest (SOI) and a Quad Chart directly addressing their chosen objective(s) and the specific capability requirements listed in Section 3.0.

Security & Access Category	Requirement Details
Restricted Components List Access	The associated TDP data is restricted. Vendors must submit a valid DD Form 2345 (Militarily Critical Technical Data Agreement) and provide a verified CAGE code to receive the TDP data prior to the Industry Day.
Facility Clearance	The Industry Day will be held at a secure military facility. Base access protocols apply. This is an Unclassified/CUI event. U.S. Citizens only.
Quality & Cybersecurity	Vendors must state their current quality management certifications (e.g., AS9100, ISO 9001, NADCAP) and NIST SP 800-171 compliance status for CUI data handling in their SOI.

5.0 Please provide input on other considerations for the US Government or additional information that would be needed to provide a thorough response.

6.0 White Paper Submission Closing Information

Industry submission of white papers is due NLT 1200 EST on 18 June 2026.

7.0 Government POCs

Submissions shall be sent via email to the following Points of Contact:

Jamie M. Waszak, jamie.m.waszak.civ@mail.mil
Christine Marr, christine.m.marr.civ@army.mil
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