

REQUEST FOR INTEREST

Request for Interest No.: RFI-2026-002, Rev 1 (3/30/2026)
Title: Carbonization Furnace
Procurement Officer: Tess Klatt
Due Date: April 15, 2026

UT-Battelle is considering Subcontracting for the items/services generally described below under a new agreement issued as a Firm Fixed Price. All Interested Parties are asked to provide a response to this Request for Interest (RFI) indicating the ability to meet each element of the technical criteria set forth in this document.

NOTE: All information provided will be used for planning purposes only and will not be considered an offer to perform work nor will any information be used external to UT-Battelle and its client, The United States Department of Energy.

CONTACT INFORMATION

Provide the following prime potential Offeror information:

Company Name: _____

Address: _____

Contact Name: _____

Phone Number: _____

Email Address: _____

DUNS No.: _____

SAM.gov UEI No: _____

SUMMARY OF SCOPE

The agreement contemplated may include, but not necessarily be limited to, the following work:

UT-Battelle (UTB), operating contractor for Oak Ridge National Laboratory (ORNL), seeks supplier sources to enable equipping and commissioning a Carbonization Furnace system to support pyrolysis of polymer matrix composite preforms.

The system must be capable of pyrolysis of thermoplastic and thermoset materials from room temperature to 1050° C at a min ramp rate of 0.05° C/min to a max ramp rate of 10° C/min in an inert environment. At minimum, the inert environment would be provided by nitrogen and/or Argon gas flow in positive pressure. A gas flow meter for the furnace should be integrated into the system. The required effective hot zone would be 18 in. x 18 in. x 24-32 in. inside a retort of similar internal dimensions. Introduction of inert gas into the retort should be distributed across the retort and not a single point of entry. The 18 in. x 18 in. plane would be level with the ground with the longer dimension being the vertical measurement. The system should also have either a binder trip for pyrolyzed materials and/or an integrated thermal oxidizing system.

The system should have a GUI for operations and pyrolysis recipe programming with data logging capability. A secondary high limit thermocouple for safety would also be required. Power available in the location of the furnace would be placed in is 3 phase 480V. House air at 85 psi and cooling water can also be provided if necessary for operation to the furnace.

REQUEST FOR INTEREST

Optional capabilities UTB would be interested in hearing from the offeror are fast cool down capabilities, vacuum integration, and partial pressure capabilities.

Location of the Work:	Offeror's facility with installation at ORNL in Oak Ridge, TN
Period of Performance (estimated):	TBD
Socio-Economic Set-Aside:	TBD
Anticipated RFP NAICS Code:	335999 "All Other Misc. Electrical Equipment and Component Manufacturing"
Size Standard for NAICS Code:	600 Employees

Classified Work is included: Yes No

SURVEY OF ABILITIES

Interested Parties are asked to complete the following to indicate their ability to meet the technical criteria of this scope.

1. Commercial Data

- A. Has the potential Offeror signed up and entered their information in the Ariba Supplier Portal?
 Yes No
- B. Has your company been debarred from working with the US Government in the last 5 years?
 Yes No

Note: This response is subject to verification in SAM.gov.

2. Environment, Safety & Health

- A. Has your company worked the previous three (3) years without a fatality or without receiving any willful or non-willful citations or fines from OSHA or other regulatory organizations?
 Yes No
- B. Has your company worked the previous three (3) years without receiving, or contributing to the receipt of, any citations, or fines for Price-Anderson Amendments Act (PAAA) or Worker Safety & Health enforcement non-compliances?
 Yes No
- C. Has your company worked the previous three (3) years without receiving, or contributing to the receipt of, any citations by a Federal or state agency for violations of an environmental regulatory requirement?
 Yes No, were any fines or penalties levied? Yes No

3. Technical Criteria

- A. Potential Offeror shall provide details on how they directly relevant experience in the following items:
- Implementation of a design and integration of a Carbonized Furnace.
 - Experience in providing a customized system to meet the statement of work requirements.

REQUEST FOR INTEREST

- Experience performing work on a DOE site. If yes, please provide site location.

B. Potential Offeror shall provide verification of the following:

- Verification of Offeror's intent to provide full engineering and integration of all sub-assemblies and deliver and install a full end-to-end system.
- Verification of Offeror's intent to provide full engineering and support and deliver plans for a full end-to-end system.
- Verification of Offeror's intent to provide particular sub-assembly components without integration.

C. Potential Offeror shall provide any documentation showing previous system expertise with regard to technical criteria.

4. Direct Relevant Experience Documentation:

Provide a reference list of example projects that demonstrate relevant project experience to support this scope of work. Interested parties are asked to include the following information (please provide additional narrative, capability statements, etc. as necessary to show relevant experience): Client Name, Address, Contact and Telephone Number; Work Description; Estimated Value; Work Location; Performance Dates

RESPONSE SUBMITTAL

Electronic response (e-mail w/ attachments) is the preferred method of response and is required by no later than April 3, 2026.

Address response along with any questions to: Tess Klatt, KlattTA@ornl.gov