



Material Plasma Exposure Experiment (MPEX)

Enhancement

Expression of Interest Overview Re-issue

UT-Battelle (the Company) is seeking an Expression of Interest (EOI) for renovation and modification of existing facilities and services at the Oak Ridge National Laboratory (ORNL) for a DOE funded Major Item of Equipment (MIE) project. The Company plans to construct the Material Plasma Exposure Experiment in **existing buildings** on the ORNL campus - 7625 and 7627 buildings located in the 7600 area of ORNL, commonly referred to as the EGCR campus. The scope of work will modify the buildings to house the MPEX device.

The MPEX Enhancement RFP is expected to be issued in early July 2021, with work to begin in November/December 2021. The award will be a single, competitive fixed price construction subcontract (FPSC) for the construction of the project. All interested firms should provide contact information (Name, Email and Tel #) for further correspondence as part of their response.

Disclaimer: This EOI neither constitutes a solicitation, Request for Proposal (RFP), Invitation for Bid, or promise to issue an RFP in the future, nor does it restrict UT-Battelle to an ultimate acquisition approach. This EOI is issued solely for information and planning purposes and should not be construed as a commitment of any kind. EOI submission is not required to be considered for inclusion on the invitation to bid at a later date.

Scope – This work scope consists of construction of facility enhancements including installing new and/or upgraded support systems and sufficient utility services for MPEX operations in accordance with the scope of work, construction documents, and bill of materials. The work includes of structural modifications, radiological containment and safety systems, electrical system and other utility upgrades, and cooling system upgrades.

Attachment 1 provides a detailed overview of the conceptual design for the MPEX Enhancements work scope. Design is currently underway, and final construction documents consisting of the final Certified for Construction (CFC) drawings and construction specifications including detailed list of vendors with contact information for all mutually agreed scope will be provided in the RFP. The construction documents provide the requirements for all services and utilities for the MPEX device and its components as well as space planning and arranging equipment for specific areas. The RFP will include all documents (technical specifications, drawings, testing requirements, and acceptance criteria) for functionality and safety of the facility and its systems.

Facility enhancements in these existing buildings refer to the **procurement and installation** of equipment necessary to support MPEX installation and operation, and includes:

1. Concrete Pit Modifications – stairs and pit cover
2. Hydrogen Safety –hydrogen detection instruments, etc.
3. Magnetic Shielding Wall – free-standing shield wall
4. Cooling Water – assembly of system and equipment
5. Personnel Boundary – safety barrier
6. Surface Analysis Room – enclosure for diagnostics
7. Confinement Ventilation –packaged HEPA system
8. Helium Quench Vent System – steel piping system
9. Control Room – central control and monitoring location
10. Utilities – water, electric, compressed air, nitrogen, etc.

Key Personnel as follows:

1. Project Executive
2. Project Manager
3. Site Superintendent – full time on site
4. Safety Manager– full time on site

Other Personnel as follows:

1. Project Controls
2. Document Control / Project Administrator
3. Quality Representative

No Key personnel nor Other personnel shall have dual responsibilities on this project.

Submittal Requirements – The EOI submittal requirements consist of a narrative summary overview of up to maximum of two pages in length (not including the resumes). The EOI response shall address the following:

- Attached Excel Spreadsheet – Submit in Excel and pdf format – Two Worksheets
 - a. Worksheet 1
 - Proposed number of weeks for compiling proposal
 - Proposed number of weeks for actual construction after award
 - b. Worksheet 2
 - Summary of Key Personnel and Other Personnel
- Line Item/DOE/Federal experience – summary shall identify relevant experience preferably working on a federal installation. Provide examples of two (2) projects of similar size, scope, type, and function.
- Resumes of all Key Personnel – Each resume no more than 2 pages long. Complete and **submit Excel spreadsheet** also. Resumes are not required for Other Personnel.
- Describe your methodology to environment, safety, health, and quality (ESH&Q) principles and how your company integrates ESH&Q principles into day-to-day operations in an industrial facility.
- Expected Proposal Development Duration - Bidder shall provide an estimated number of weeks needed to develop and submit a proposal, after receiving RFP.
- Expected Construction Duration - Based on the information provided herein, proposed bidder shall propose non-binding duration of construction (number of weeks including all public holidays) for this project from award.
- Company name, key contact, and address and Contact information for Bidding process

Attachments

- Attachment 1 – MPEX Enhancements EOI Overview – For reference only
- Attachment 2 – Technical Response Form – excel file

Responses Due: All responses will be electronic format and emailed to Terri Cleveland (clevelandtd@ornl.gov). All responses must be received no later than 12:00 PM EST on June 01, 2021. Additional questions should be submitted with response.