



# Critical Infrastructure Modernization Project

## Critical Decision-1 Support Services

### Expression of Interest Overview

UT-Battelle (the Company) is requesting an Expression of Interest (EOI) for professional services to develop deliverables in support of the Company's preparation for Critical Decision (CD)-1 *Approve Alternative Selection and Cost Range*, in compliance with Department of Energy (DOE) Order 413.3, *Program And Project Management For The Acquisition Of Capital Assets*, for the Critical Infrastructure Modernization Project (CIMP). The CIMP is funded as a U.S. Department of Energy Science Laboratory Infrastructure (SLI) Line Item project. The objective of the CIMP is to deliver utilities infrastructure improvements that are reliable, safe, maintainable, redundant, energy and cost efficient, and, flexible to address current and emerging research needs.

The Department of Energy Office of Science approved the CIMP CD-0 *Approve Mission Need* for CIMP in October 2020. The CD-1 Independent Project Review is scheduled for late CY2021 or early CY2022. 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** – Perform professional services to develop specific deliverables as noted below. Each deliverable shall be a complete and quality product, meeting specific requirements as defined in each applicable DOE Order, DOE Guidance document and other templates/formats required by the Company.

- **Condition Assessments:** Physical inspection, assessment, measurement, and interpretation of the resultant data to indicate the condition of a specific asset so as to determine the need for some preventative or remedial action. It is a crucial part of asset management to determine its current condition, remaining useful life and estimated cost to correct any deficiencies.
- **Functional Assessments:** Determine the difference between an asset's current physical condition and its capability to meet mission requirements to serve a designated function or use. Functional assessments result in designations such as adequate, substandard, and inadequate and are used to identify an asset's functionality.
- **Conceptual Design Report:** A Conceptual Design Report (CDR) shall be developed that includes a clear and concise description of the alternatives analyzed, the basis for the alternative selected, how the alternative meets the approved mission need, the functions and requirements that define the alternative and demonstrate the capability for success, and the facility performance requirements, planning standards and life-cycle cost assumptions. The CDR should also clearly and concisely describe the KPPs that will form the basis of the Performance Baseline at CD-2.
- **Analysis of Alternatives:** The Analysis of Alternatives is an analytical comparison of the operational effectiveness, suitability, risk, and life cycle cost (or total ownership cost, if applicable) of alternatives that satisfy validated capability needs. As a part of the Analysis of Alternative, a Life Cycle Cost Analysis must be conducted. The Life Cycle Cost Analysis estimates the overall cost of each alternative on a

comparable level to identify the lowest cost option that delivers the required scope. To achieve this, the LCCA identifies, assesses, and compares financial considerations of each alternative.

- Acquisition Strategy: Prepare the acquisition approach(es) for activities essential for project success (i.e., design, construction, commissioning, demolition, etc.) and for formulating functional strategies and plans.
- Project Schedule: Develop a resource loaded, conceptual design and construction schedule based on the project execution strategy and expected funding profile. The schedule should align with the risk register and detailed estimate.
- Project Estimates: Prepare detailed estimates of construction contract price for each construction scope.
- Risk Register: Prepare a risk register based on the format provided by the company.

### Key Personnel

1. Project Executive
2. Project Manager
3. Technical SMEs
  - a. Civil – Storm Sewer, Sanitary Sewer, Potable Water
  - b. Mechanical – Compressed Air, Chilled Water, Steam, Natural Gas
  - c. Electrical
  - d. Telecommunications
  - e. Environmental
4. Cost Estimator
5. Scheduler/Planner (Primavera P6)

### Support Personnel

1. Life Cycle Cost Analysis SME
2. Technical Writer
3. Graphics SME
4. Utility/Equipment Condition Assessors
5. Third Party inspectors including cameras for Sanitary Sewer, Storm Water, etc.

Submittal Requirements – The EOI submittal requirements consist of a narrative summary overview of up to maximum of two pages in length. 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 deliverables after award
  - b. Worksheet 2
    - Summary of Key Personnel
- Line Item/DOE/Federal experience in facility construction. Provide examples of similar projects on a federal installation. Provide examples of two (2) projects of similar size, scope, type, and function. Lack of experience on federal installations will not automatically disqualify potential bidders. Projects performed for private or public owners can also be provided.
- Resumes of all Key and Other Personnel – Each resume no more than 2 pages long – Complete and submit Excel spreadsheet also.

- 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 during physical inspection of assets.
- Describe your process for quality control of deliverables prior to issuing submittals to the Company.
- Expected Proposal Development Duration - Bidder shall propose number of weeks to develop and submit a proposal, after receiving RFP, which will include 100% completed deliverables.
- Expected Duration - Based on the information provided herein, proposed bidder shall propose duration of deliverable development (number of weeks including all public holidays) for this project from award.
- Company name, key contact, and address and Contact information for Bidding process

**Responses Due:** All responses will be electronic format and emailed to Terri Cleveland ([clevelandtd@ornl.gov](mailto:clevelandtd@ornl.gov)). All responses must be received no later than 12:00 PM EST on March 10, 2021.

Attachments

- Attachment 1 - CIMP CD-1 IPR Document Log – for reference only
- Attachment 2 - CIMP AE EOI Spreadsheet