

ARCHITECT-ENGINEERING DESIGN SUPPORT OPPORTUNITIES

December 11, 2025

Presented by Landon Hill, Angela Shillings, Rachel Botes, and
John Phelps

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Energy



AGENDA

- Radioisotopes Processing Facility (RPF) A/E Design Basic Ordering Agreement (BOA)
- RPF Modular Hot Cell Design BOA
- Small Business A/E Design BOAs for construction projects
- Government Computing Facility (GCF) A/E Design BOA
- Campus Infrastructure Modernization Project (CIMP) A/E Design Subcontracts
- A/E Design BOAs for construction projects

QUESTIONS

- Questions of a general nature may be posted in the chat box. Questions will be answered to the greatest extent possible during the presentation.
- Additionally, questions of a general nature may be submitted to Leah Swaggerty at swaggertylb@ornl.gov.
- Q&A document will be added to the Small Business Programs website.
- Each procurement discussed today will have a Q&A period once the Solicitation is issued. Project-specific questions may be asked at that time.

BASIC ORDERING AGREEMENT FOR ENGINEERING DESIGN SERVICES FOR THE RADIOISOTOPES PROCESSING FACILITY (RPF)

Procurement Officer: Angela Shillings
shillingsag@ornl.gov

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PROJECT DESCRIPTION

- The RPF is a new Hazard Category 2 nuclear facility containing Modular Hot Cells and other infrastructure dedicated to processing radioisotopes. The facility will be constructed at ORNL.
- RPF will be an approximately 110,000 square foot, two-story, steel-frame structure on a concrete pad. Roughly two-thirds of the building will be a high bay facility comprising eight Modular Hot Cell processing bays and supporting laboratories with an equipment mezzanine above. These eight bays will initially contain a total of 14 Modular Hot Cells and 22 glove boxes for radioisotope processing. The remaining one-third of the building will be dedicated to balance-of-plant equipment, including ventilation, waste collection, material handling, equipment staging, and operations support areas.
- This BOA will be for the design of the RPF facility.

PROJECT INFORMATION - CONTINUED



PROJECT INFORMATION

- **Set Aside:** No.
- **NAICS Code:** 541330 – Engineering Services - \$25,500,000
- **Estimated Value:** <\$25,000,000
- **Anticipated Solicitation Issue:** December 2025
- **Anticipated Award:** March 2026

PROJECT INFORMATION - CONTINUED

- Offeror must have a Quality Program in compliance with ASME NQA-1, Quality Assurance Requirements for Nuclear Facility Applications, 2008 edition with 2009 addenda, or later.
- Task Orders 1 and 2 are expected to be FFP (design). Task Orders 3 and 4 are expected to be LH/T&M (construction administration).
- Task Order 1 to be priced at the time offer submitted for BOA.

BASIC ORDERING AGREEMENT FOR ENGINEERING DESIGN SERVICES FOR THE RADIOISOTOPES PROCESSING FACILITY (RPF) MODULAR HOT CELLS

Procurement Officer: Rachel Botes

Botesre@ornl.gov

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PROJECT DESCRIPTION

- Oak Ridge National Laboratory has proposed the Radioisotope Processing Facility (RPF), a new standardized modular hot cell (MHC) facility, to meet the radioisotope processing needs of DOE IRP with a focus on processing irradiated reactor targets from ORNL's High Flux Isotope Reactor (HFIR).
- Building upon the MHC prototypes designs, the RPF is developing a heavily shielded, reconfigurable MHC design. This project's scope includes build-to-print fabrication and installation design packages and on-site assembly of these interchangeable, operational, and heavily shielded MHCs in the newly constructed RPF.
- This BOA will be for a full design package for the RPF MHC Project scope and provide support to the project during the fabrication and installation phases.

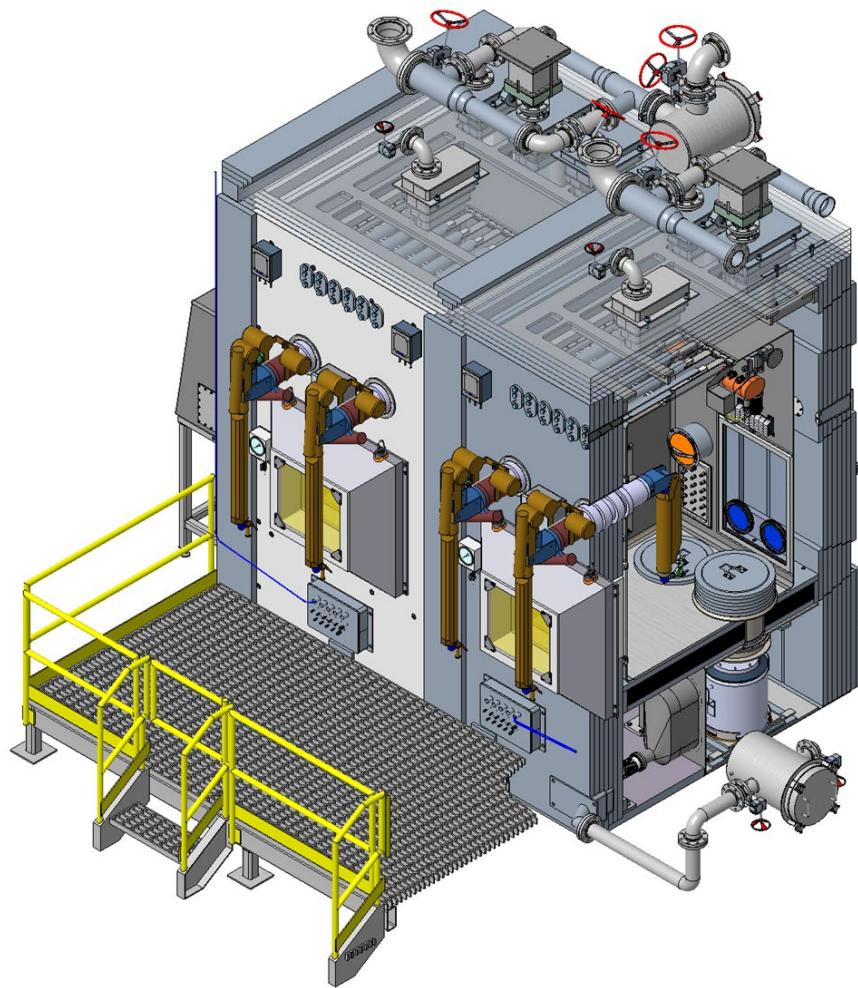
PROJECT INFORMATION

- **Set Aside:** No.
- **NAICS Code:** 541330 – Engineering Services - \$25,500,000
- **Estimated Value:** <\$9,000,000.00
- **Anticipated Solicitation Issue:** December 2025
- **Anticipated Award:** March 2026

PROJECT INFORMATION - CONTINUED

- Offeror must have a Quality Program in compliance with ASME NQA-1, Quality Assurance Requirements for Nuclear Facility Applications, 2008 edition with 2009 addenda, or later.
- Offeror must have, on current staff, a minimum of three Professional Engineers (PEs) registered in the State of Tennessee or eligible for registration in Tennessee by comity, and who have a minimum of 3 years on the Offeror's staff.
- Task Order 1 to be priced at the time offer submitted for BOA.

PROJECT INFORMATION - CONTINUED



BASIC ORDERING AGREEMENT FOR ARCHITECT-ENGINEERING DESIGN AND GENERAL TECHNICAL SERVICES FOR CONSTRUCTION PROJECTS (SET ASIDE FOR SMALL BUSINESS)

Procurement Officer: John Phelps

Phelpsje@ornl.gov

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PROJECT DESCRIPTION

- Multiple BOAs set-aside for Small Business to provide technical, architectural, engineering, and design services to support the ORNL Laboratory Modernization Division (LMD). These BOAs will be for small to medium project needs.
- LMD is responsible for the planning, design, project management, and construction management of facility infrastructure investments. This includes a range of projects, both large and small, designed to improve research, administrative, operational, and supporting facilities at ORNL.
- Offerors are expected to provide expertise in one or more of the following disciplines but not obligated to provide each:
 - Architectural
 - Civil
 - Electrical
 - Mechanical
 - Structural

PROJECT INFORMATION

- **Set Aside:** Yes
- **NAICS Code:** 541330 – Engineering Services - \$25,500,000
- **Estimated Value:** \$12,000,000 - \$15,000,000 (Shared ceiling of multiple BOAs)
- **Anticipated Solicitation Issue:** December 2025
- **Anticipated Award:** March 2026

PROJECT INFORMATION - CONTINUED

- Some projects or specific aspects of a project may require work be performed in accordance with NQA-1 or Price-Anderson Amendment Act quality requirements. Offerors should note in their proposal if they have the ability to implement such a Quality Assurance Program. Proposals that clearly demonstrate an existing NQA-1 Program may be evaluated more favorably.
- Only Firm Fixed Priced Task Orders will be issued from BOA.
- Projects and tasks that will be under these BOAs are TBD.
- These BOAs traditionally are recompeted every five years.

BASIC ORDERING AGREEMENT FOR ARCHITECT-ENGINEERING DESIGN SERVICES FOR THE GOVERNMENT COMPUTING FACILITY (GCF)

Procurement Officer: Angela Shillings

shillingsag@ornl.gov

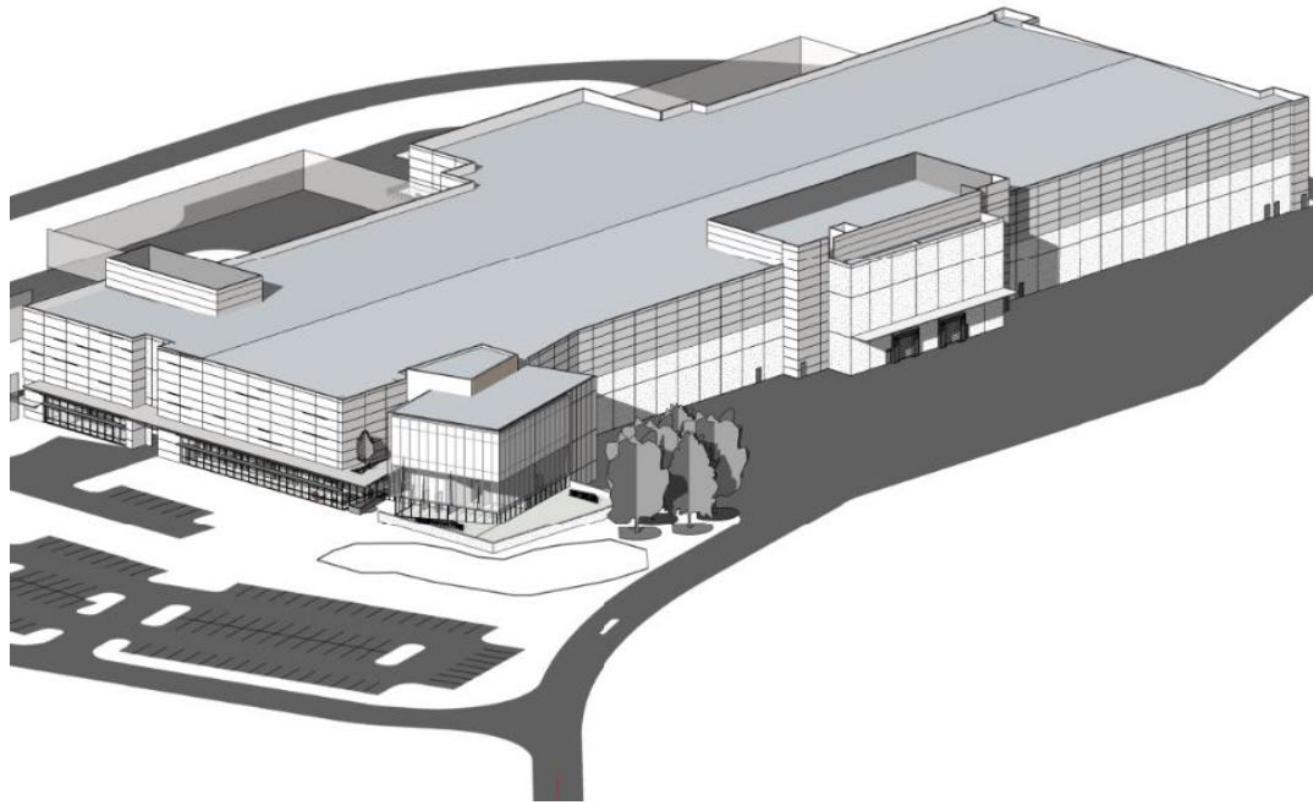
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PROJECT DESCRIPTION

- The Government Computing Facility (GCF) Project is a strategic project focused on designing and constructing a cutting-edge classified computing facility at ORNL in Melton Valley. This high-performance computing facility will span approximately 300,000 gross square feet (GSF), including dedicated data halls and mission support areas, and will provide the infrastructure necessary to enable advanced classified research and computational analysis.
- The facility will be built in full compliance with Intelligence Community Directive (ICD) 705 standards, ensuring it meets the stringent requirements for Sensitive Compartmented Information Facility (SCIF) operations.
- This BOA will be for the design of the GCF facility.

PROJECT CONCEPT



The GCF conceptual design is anticipated to complete December 2025. Above is a rendering from the draft conceptual design report.

PROJECT INFORMATION

- **Set Aside:** TBD
- **NAICS Code:** 541330 – Engineering Services - \$25,500,000
- **Estimated Value:** \$20,000,000
- **Anticipated Solicitation Issue:** February 2026
- **Anticipated Award:** April 2026

PROJECT INFORMATION - CONTINUED

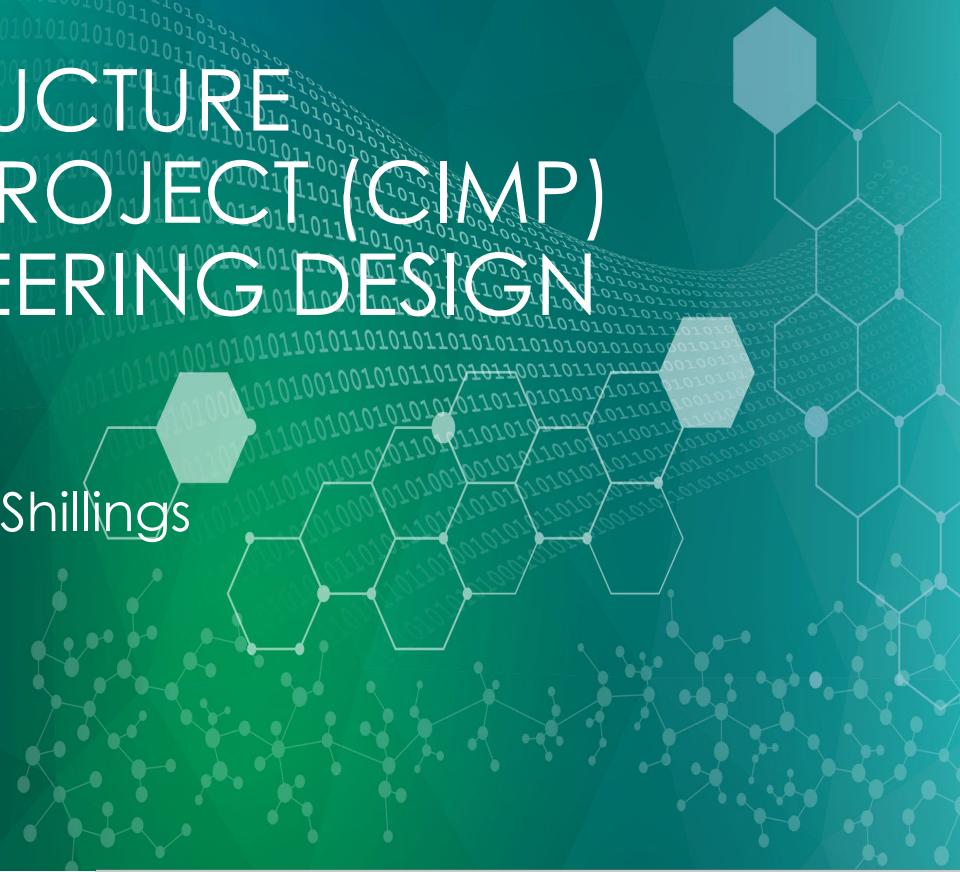
- Offeror's team must have experience designing to Intelligence Community Directive (ICD) 705 standards. Proposals that demonstrate the Offeror's experience and ability to meet this requirement vs. a teaming partner that has that experience may be evaluated more favorably.
- Task Orders 1 and 2 are expected to be FFP (design). Task Orders 3 and 4 are expected to be LH/T&M (construction administration).
- Task Order 1 to be priced at the time offer submitted for BOA.

CAMPUS INFRASTRUCTURE MODERNIZATION PROJECT (CIMP) ARCHITECT-ENGINEERING DESIGN SUBCONTRACT

Procurement Officer: Angela Shillings

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PROJECT DESCRIPTION

- Two distinct needs under the same Solicitation/Subcontract.
- The project aims to modernize ORNL's facilities to enhance research capabilities, particularly in computing and materials science.

PROJECT INFORMATION

- **Set Aside:** TBD
- **NAICS Code:** 541330 – Engineering Services - \$25,500,000
- **Estimated Value:** <\$2,000,000
- **Anticipated Solicitation Issue:** January 2026
- **Anticipated Award:** March 2026

BASIC ORDERING AGREEMENT FOR ARCHITECT-ENGINEERING DESIGN AND GENERAL TECHNICAL SERVICES FOR CONSTRUCTION PROJECTS

Procurement Officer: John Phelps
Phelpsje@ornl.gov

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PROJECT DESCRIPTION

- Multiple BOAs for offerors to provide technical, architectural, engineering, and design services to support the ORNL Laboratory Modernization Division (LMD).
- LMD is responsible for the planning, design, project management, and construction management of facility infrastructure investments. This includes a range of projects, both large and small, designed to improve research, administrative, operational, and supporting facilities at ORNL.

PROJECT INFORMATION

- **Set Aside:** No
- **NAICS Code:** 541330 – Engineering Services - \$25,500,000
- **Estimated Value:** \$20,000,000 (Shared ceiling of multiple BOAs)
- **Anticipated Solicitation Issue:** January 2026
- **Anticipated Award:** March 2026

PROJECT INFORMATION - CONTINUED

- Some projects or specific aspects of a project may require work be performed in accordance with NQA-1 or Price-Anderson Amendment Act quality requirements. Offerors should note in their proposal if they have the ability to implement such a Quality Assurance Program. Proposals that clearly demonstrate an existing NQA-1 Program may be evaluated more favorably.
- Only Firm Fixed Priced Task Orders will be issued from BOA

QUESTIONS

- Questions of a **general nature** may be submitted to Leah Swaggerty at swaggertylb@ornl.gov.
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