

REQUEST FOR INFORMATION

CP242871 NextGen MURR
University of Missouri
Issued September 3, 2026

1. Overview and General Information

The University of Missouri-Planning, Design, and Construction on behalf of The Curators of the University of Missouri (“Owner” or “University”), is issuing this Request for Information (“RFI”) to identify whether public sector construction contracting methods are feasible for the reactor and key systems and structures of its proposed nuclear reactor project (“NextGen MURR” or “Project”) and are in the best interest of the Project.

Please note that this Request for Information is for informational purposes only, and no contract will be awarded as a result of any response. A firm or organization’s response to this RFI — or lack thereof — will have no impact on the evaluation of responses to any subsequent Request for Proposals or Invitation to Bid released for the Project. Responses will be used solely for information and planning purposes.

1.1. RFI Contact

The University has designated the following individual to serve as the official point of contact for this RFI. This individual is the only authorized contact permitted to communicate on behalf of the University about this RFI.

Jim Heckemeyer, Interim Director
Planning, Design, and Construction
University of Missouri
Heckemeyerj@missouri.edu
Office: 573-882-1983

1.2. Submission Details

Responses to this RFI will be received by The Curators of the University of Missouri via e-mail to Jim Heckemeyer at **heckemeyerj@missouri.edu** with a copy to Chris Fessler at **cfessler@missouri.edu** not later than 2:00 P.M. Central Standard Time on September 25, 2026.

A virtual pre-submittal meeting will be held on September 15, 2026 at 2:00 P.M. Central Standard Time. All interested parties are encouraged to attend this meeting. Teams meeting invitation:

<https://teams.microsoft.com/meet/225522774638331?p=PrEEIL8ERtsRulIR0V>

Meeting ID: 225 522 774 638 331

Passcode: JR9wx9GW

The submittal must be submitted via e-mail to Jim Heckemeyer at heckemeyerj@missouri.edu with a copy to Chris Fessler at cfessler@missouri.edu

- Submittals should not exceed 50 pages.

The costs of producing the responses and participating in any meetings, tours or discussions are borne solely by the respondent. The University will not be responsible for any of the submittal costs.

1.3. RFI Timeline

Please review the RFI timeline below. Dates may be modified or amended by the University, which will post an amendment to this RFI notifying prospective respondents of any change.

- RFI Released: 3-Sept-2026
- Questions Due: 14-Sept-2026
- Pre-Submittal Meeting (virtual) 15-Sept-2026
- Responses to Questions: 21-Sept-2026
- RFI Submittal: 25-Sept-2026
- Post Submittal Q&A sessions (virtual): 7-Oct-2026 to 21-Oct-2026

1.4. Confidentiality

The University is a public governmental body subject to Missouri's open records law (Ch. 610, RSMo, known as the "Missouri Sunshine Law"). If the respondent believes any of the information contained in its response to this RFI is exempt from disclosure under applicable law, the respondent should identify the material in its RFI submittal that is deemed to be exempt and the basis for the exemption. (See Section 610.021, RSMo, and Section 173.120.3, RSMo, regarding closure of records under the Missouri Sunshine Law.) The University shall make the final determination as to what materials are or are not exempt from disclosure under the Missouri Sunshine Law.

2. Background Information

2.1. Goals and Outcomes

The University's goals in issuing this RFI include the following:

- Identify interested procurement and construction entities for the Project.
- Identify the market's willingness to participate in the Project under public sector construction contracting methods.
- Identify alternative possible contracting methods.

2.2. Background

The Owner is seeking to design, license, and build a new research reactor facility, referred to as the Next Generation University of Missouri Research Reactor ("NextGen MURR"), which will be

a 20-megawatt or larger research reactor supporting neutron beam scientific research and producing short-lived medical radioisotopes for use in diagnostic and therapeutic radiopharmaceuticals (“Project”).

The University of Missouri’s vision is to build upon the 59+ years of safe, reliable, and innovative operation of the University of Missouri Research Reactor (MURR), to pursue a new, state-of-the-art, research reactor. NextGen MURR will serve as an asset of national strategic significance in both radioisotope supply and research excellence. NextGen MURR will secure the nations radioisotope supply, ensuring life-improving treatments are provided to U.S. patients, and will secure excellence within the nations research portfolio, leading the technological and medical advancements of the future.

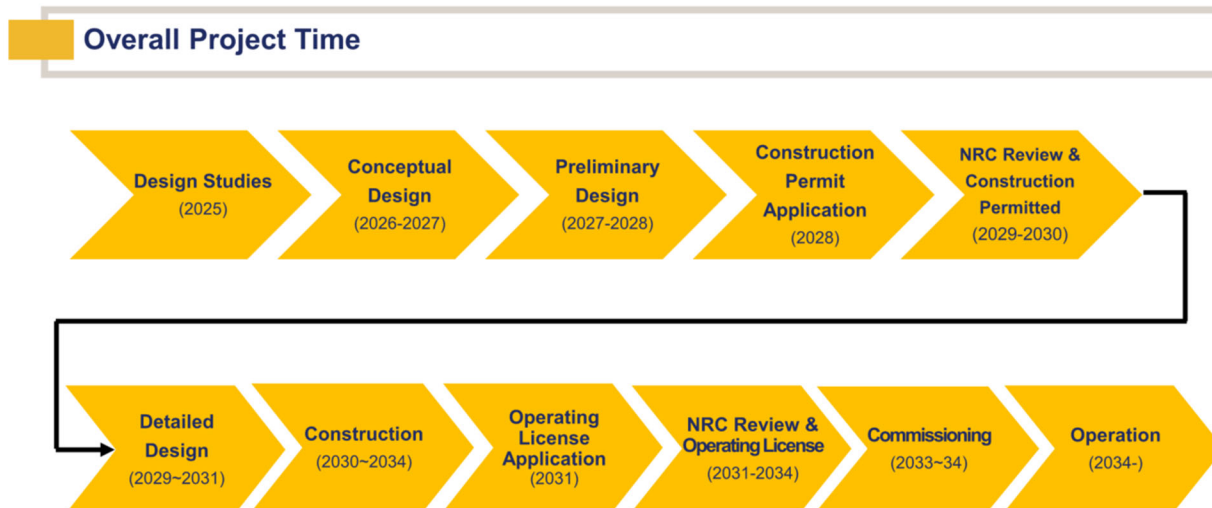
The vision of NextGen MURR is to serve as the nation’s center for nuclear excellence, securing the world’s most valued destination for nuclear science and technology opportunities and expand the supply of critical materials (including radioisotopes) for generations to come. The mission of the NextGen MURR project is to establish a world-class center for nuclear excellence - advancing MURR’s mission to positively impact society through leadership in nuclear science research, education, production of critical materials, and strategic partnerships to improve and save lives across Missouri, the nation, and the world.

NextGen MURR will be an open-pool, light-water moderated, heavy water reflected, low temperature reactor utilizing high-assay low enriched uranium (“HALEU”) fuel. It will be designed to be licensed by the Nuclear Regulatory Commission (NRC) under 10 CFR § 50.21 as a Class 104(c) facility.

The Project is a portion of a larger nuclear ecosystem envisioned by the Owner. The Project scope of work related to this RFI is the procurement and construction of the Reactor Building, the Reactor Auxiliary Building (which will contain the necessary structures, systems, and components to support nuclear safety functions) and the associated Utility Facilities (e.g., Chiller and Boiler Building(s), Chiller Cooling Tower, Backup Power Generation Building with Fuel Storage, Demineralized Water and Water Treatment Building(s), Cooling Tower for Secondary Cooling System, Water Storage Tank(s), Firewater Tank(s) and Pump House, Electrical Facility, Substation, etc.). Additional facilities may include a Neutron Research Building (e.g., Neutron Guide Hall), Radioisotope Processing Facilities, and Nuclear Research Facilities. Contracting for other “non-nuclear” facilities included in the Project nuclear ecosystem will be determined separately.

The Owner has entered into an agreement for regulatory and programming studies and environmental/site work (referred to as “Design Studies”) for the Project with Hyundai ENG America, Inc. (“HEA”). HEA is performing work on the Project as part of a consortium consisting of the Korea Atomic Energy Research Institute (“KAERI”), Hyundai Engineering Co., Ltd. (“HEC”) and MPR Associates, Inc. (“MPR”). (HEA, HEC, KAERI, and MPR may be referred to herein jointly as the “Design Consultant” or the “consortium.”) The Owner intends to enter into a contract in the near future with the Design Consultant for the design of the Project up to the level necessary to support a Construction Permit Application (CPA) to the NRC. Additionally, the

Owner has contracted Burns & McDonnell Engineering Company to furnish project controls and owner's engineering services for the Project.



3. Information Requested

Note: The information requested below is for the Owner's information and planning purposes only, as indicated above. Respondents are encouraged but not required to respond to each question, and to provide explanation for each response.

3.1. Specialty Nuclear Experience and Capabilities

1. Describe your organization's experience within the past 15 years in the design, engineering, procurement, and construction of nuclear facilities, specifically focusing on research reactors, test reactors, Department of Energy (DOE), or nuclear power generation facilities.
2. What is your methodology or approach to building class 3, 2, and 1 nuclear estimates (per AACEI RP 115R-21) for a recent nuclear project? What was the basis for the rates used in those estimates, such as self-perform knowledge, subcontracting with a Nuclear Quality Assurance 1 (NQA-1) supplier, or other?
3. Describe your established relationships with nuclear-certified suppliers (e.g., ASME N-Stamp holders) capable of fabricating safety-significant components for a first-of-a-kind (FOAK) nuclear reactor.
4. Does your organization have direct hire capabilities? If so, how many NQA-1 or similar nuclear quality program qualified crafts do you have?
5. Does your organization have an established NQA-1 or similar nuclear quality program for construction? If so, what projects have you executed under this program?

6. Which NQA-1 areas would you potentially self-perform versus subcontract to an NQA-1 constructor?

3.2. Construction Delivery Models

1. Would your organization be willing and able to act as a construction manager at-risk (“CMAR”) for the Project (for a detailed design provided by the Consortium under a separate contract with the Owner)? If not, please explain.
2. Would your organization be willing and able to act as a design-builder on the Project under either a traditional or progressive design-build contract? If not, please explain.
3. Would your organization be willing to enter into a contract with HEA and/or the consortium as the design authority to complete the Project under a traditional design-build or progressive design-build contract? If not, please explain.
4. Please describe your recommended contracting structure/delivery model for this Project (i.e., Engineer, Procure, Construct (EPC), Integrated Project Delivery (IPD), etc.). Please explain why your recommended contracting method is preferred over the methods described above.

3.3. Pricing Structure

1. Is your organization willing to submit construction pricing metrics (for pre-construction services) during the competitive bidding phase for this Project prior to the completion of early design and licensing baselines?
2. Would your organization be willing to enter into a contract with a guaranteed maximum price (GMP) for the construction of this Project? If not, please explain. If yes, what deliverables would you require to establish your GMP and/or what stage of design maturity does your firm require before setting a GMP?
3. Would your organization be willing to enter into a firm, fixed price or lump sum contract for this Project? If not, please explain. If yes, what deliverables would you require to establish your fixed price and/or what stage of design maturity does your firm require before setting a fixed price?
4. Please describe your recommended pricing structure for this Project, including but not limited to any of the structures listed below. Please explain the basis for your recommendation.
 - a. Lump sum, fixed price
 - b. Guaranteed maximum price
 - c. Open Book to a target price with shared savings/overruns

- d. Open-to-Close Book accounting
- e. Open Book accounting/Time and materials only
- f. At what milestone(s) of the Project would you be willing to either:
 - i. Establish a target price
 - ii. Close books/set fixed price or GMP

3.4. Subcontractor Relationships

1. Would your organization be willing and able to participate in the Project as the prime contractor if required to utilize subcontractors to perform the majority of the work and/or to submit a bid to self-perform work? (under a construction manager at-risk or other model).
2. Would your organization be willing to perform work on this Project as a subcontractor (under construction manager at-risk, design-build or other contract structure)?
3. What basis would your organization use to propose cost for nuclear-qualified construction labor and productivity?
 - (a) Is that based on either direct-hired experiences or subcontract working under your NQA-1 or similar nuclear quality construction program?

3.5. Procurement of Nuclear Equipment

1. Would your organization be willing to consider procurement of the reactor equipment island contract or only accept assignment of equipment procured by the Owner?

3.6 Major Challenges

1. Provide a narrative on what you would consider to be the major challenges likely to be encountered during the course of design and construction.

For reference, existing Missouri statutes for construction contracting are found in the Revised Statutes of Missouri (RSMo) sections 8.250 (design-bid-build), 8.285-8.291 (qualification - based selection for design), 67.5050 (construction manager at-risk), and 67.5060 (design-build). The University's policies on construction contracting can be found in the University's Collected Rules and Regulations section 70.060, and Facilities Policy and Procedures Manual (available at: <https://www.umsystem.edu/policies/collected-rules> and <https://www.umsystem.edu/policies/facilities-management-policy-procedures>).