June 12, 2026

Request for Information (RFI)/Sources Sought
No. 000538-000539-CAB
EIC ESR D1-D3 & D2 Dipole Magnets

To all Potential/Interested Suppliers,

Brookhaven Science Associates, LLC (herein known as "BSA"), operator of Brookhaven National Laboratory (BNL) under a Prime Contract with the U.S. Department of Energy (DOE), is seeking expressions of interest from firms regarding (542) EIC ESR D1-D3 Dipole Magnets and (195) EIC ESR D2 Dipole Magnets as outlined in the following attachments:

Attachment A- Statement of Work for the Electron Storage Ring D1/D3 Dipole Magnets (Doc. No. EIC-MSG-SOW-017), dated February 4, 2026.
Attachment B- Statement of Work for the ESR D2 Dipole Magnets (Doc. No. EIC-MSG-SOW-018), dated February 4, 2026
Attachment C- Technical Specification for the ESR D1/D3 Dipole Magnets (Doc. No. EIC-MSG-SPC-008), dated February 4, 2026.
Attachment D- Technical Specification for the ESR D2 Dipole Magnets (Doc. No. EIC-MSG-SPC-009), dated February 4, 2026.
Attachment E- BNL-QA-101 Revision 4/2025
Attachment F- D1-D3 Technical Drawings Available (currently drawings are being approved, will be included in competitive solicitation).
Attachment G- D2 Technical Drawings Available (currently drawings are being approved, will be included in competitive solicitation).

Please note that this is an RFI/Sources Sought notice, not a Request for Proposal, and no solicitation exists at this time.

This RFI is for informational and planning purposes only and is not to be construed as a commitment by the U.S. Government, nor will the U.S. Government pay for information received. The information from this notice will help the Department of Energy (DOE) Office of Basic Energy Sciences (BES) survey available resources.

The Electron Ion Collider (EIC) is a Nuclear Physics Facility that will create intense beams of relativistic energy electrons and ions in opposing particle storage rings that will be brought into collision in a large experimental detector. This will provide insight into the internal structure of protons and neutrons and the gluelike force that holds them together.

Please provide the following information:

1) Does your company have the capabilities and past experience in producing Dipole Magnets as outlined within the past 5 years?

2) Does your company have the capacity to support all magnets (both D1/D3 and D2)?

3) Can your company support our schedule based on the capacity requirements?

4) Does your company have key staff and engineers to provide a detailed design and program plan as outlined in the D1-D3 and D2 Dipole Magnets?

5) Does your company have manufacturing, assembly, testing capabilities and available resources to meet the proposed schedule restraints? How does our future annual requirements compare to your past throughput the last ~3-5 years?

6) Pertaining to the GFE production steel, provide an estimated scrap yield percentage?

7) What is the minimum order quantity?

8) What are the lead times?

9) What is the period validity of your proposal? Is there a concern with holding pricing because of the time between the procurement of the D1/D3 and D2 magnets ?

10) Would a change in quantities drive significant pricing and lead time changes?

11) Does your company have manufacturing capabilities in the US?

We are open to all information you can and care to provide at this point. Please provide responses to BSA no later than **June 29, 2026.**

BSA prefers electronic submissions of submittals. Electronic submissions will be accepted by the following method:

- Email submissions should express your interest and describe your capabilities related to delivering this product. Emails shall be sent to Cindy Blanchard, cblanchar@bnl.gov with the BSA RFI 000538-000539-CAB in the Subject Line.

We trust that the information contained herein is sufficient to permit your company to prepare a submittal outlining:

1) your capabilities
2) estimated lead times
3) compliance matrix listed in Section 1 Table
4) budgetary pricing listed in Section 2 Table
5) Any exceptions you take to BSA General Terms and Conditions for Noncommercial Items (see Attachment H below)

Attachment H- BSA General Terms and Conditions for Noncommercial Items, Rev. 24.0; (April, 2026)

However, should you have any questions, please contact the undersigned.

Sincerely,

Cindy Blanchard

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1. **Table- Statement of Work (SOW)/ Technical Specification Compliance Matrix**
   ESR D1-D3 Dipole Magnets
   ESR D2 Dipole Magnets

Section	Section Description	Comply Yes or No?
SOW 1	Scope	
SOW 1.1	Background	
SOW 2	Applicable Documents	
SOW 3	Requirements	
SOW 3.1	Contractor and BSA Responsibilities	
SOW 3.1.1	1st Article Magnet	
SOW 3.1.2	Production Magnets	
SOW 3.1.3	Technical Performance	
SOW 3.1.4	Tooling/Fixtures/Test Equipment	
SOW 3.1.5	Special Tools	
SOW 3.2	Engineering Design and Manufacturing Requirements	
SOW 3.2.1	Detailed Design Requirements	
SOW 3.2.2	Detailed Analysis Requirements	
SOW 3.3	Project Communication and Management	
SOW 3.3.1	Progress Communication	
SOW 3.3.2	Program Plan	
SOW 3.3.3	Performance Reporting	
SOW 3.3.4	“Witness” Points	
SOW 3.3.5	Manufacturing/Inspection/Test Plan	
SOW 3.4	Design Reviews and Production Review	
SOW 3.4.1	Preliminary Design Review (PDR)	
SOW 3.4.1.1	Preliminary Design Review (PRD) Report	

SOW 3.4.1.2	Preliminary Design Review Meeting	
SOW 3.4.2	Final Design Review (FDR)	
SOW 3.4.2.1	Final Design Review Report	
SOW 3.4.2.2	Approval to Proceed with 1st Article Fabrication	
SOW 3.4.2.3	Final Design Review Meeting	
SOW 3.4.3	Manufacturing Readiness Review (MRR)	
SOW 3.4.3.1	Manufacturing Readiness Review Report	
SOW 3.5	Documentation and Data Management	
SOW 3.5.1	Report/Documentation Format	
SOW 3.5.2	Engineering Drawing Practices	
SOW 3.5.3	End Item Documentation Package	
SOW 3.5.4	Records	
SOW 3.6	Environment, Safety and Health (ESH)	
SOW 4	Quality Assurance	
SOW 4.1	Quality System and Facility Access	
SOW 4.2	Configuration Management	
SOW 4.3	Responsibility for Subcontractor	
SOW 4.4	Responsibility for Conformance	
SOW 4.5	Measuring and Test Equipment (M&TE) Calibration	
SOW 4.6	Inspections and Test Requirements	
SOW 4.6.1	Test and Inspection	
SOW 4.6.1.1	Steer Testing Requirements	
SOW 4.6.1.2	Magnet Testing Requirements	
SOW 4.6.2	First Article Acceptance	
SOW 4.7	Repairs	
SOW 4.8	Failure Reporting, Analysis and Corrective Action	
SOW 5	Deliverables	
SOW 6	Schedule	
SOW 7	Value Engineering	

SPC 1	Scope	
SPC 1.1	Background	
SPC 1.1.1	Magnet Details	
SPC 2	Applicable Documents	
SPC 3	Technical Specification	
SPC 3.1	Magnet Specifications	
SPC 3.1.1	Magnet Design Requirements	
SPC 3.1.2	Magnet Coil Mounting	
SPC 3.2	Magnet Core Assembly	
SPC 3.2.1	Magnet Core	
SPC 3.2.2	Magnet Core Configuration	
SPC 3.2.3	Core Lamination Material	
SPC 3.2.4	Core Lamination Shape	
SPC 3.2.5	Magnetic Shims	
SPC 3.2.6	Completed Core Assembly	
SPC 3.3	Magnet Coils	
SPC 3.3.1	Coil Manufacturing	
SPC 3.3.2	Main Coil Conductor Material	
SPC 3.3.3	Trim Coil Construction & Assembly	
SPC 3.3.4	Main Coil Insulation	
SPC 3.3.5	Coil Impregnation and Epoxy System	
SPC 3.3.6	Coil Tooling	
SPC 3.3.7	Coil Connections	
SPC 3.3.8	Coil Terminals	
SPC 3.3.9	Cable Termination and Coil Interface	
SPC 3.3.10	Thermal Protection Monitoring	
SPC 3.4	Construction/Layout/Location Requirements	
SPC 3.4.1	Survey Monuments	
SPC 3.4.2	Lifting Provisions	

SPC 3.5	Marking and Serialization	
SPC 3.6	Packaging/Shipping	
SPC 4	Verification	
SPC 4.1	Classification of Inspection	
SPC 4.2	Acceptance Testing	
SPC 4.2.1	Magnet Coil Inspection and Testing	
SPC 4.2.2	Magnet Core Inspection	
SPC 4.2.3	Magnet Assembly Inspection and Test	
SPC 4.2.4	Magnet Assembly Electrical Tests	

2. **Table- Budgetary Pricing**

Description	Quantity	Price Per Magnet	Total Cost
First Article of Inspection (FAI)	1		
Steel for all Magnets	2,759 tons		
Magnets Initial Base Term: Production D1-D3 Magnets	64		
Magnets Option Year 1: Production D1-D3 Magnets	288		
Magnets Option Year 2: Production D1-D3 Magnets	189		
D1/D3 Total Magnets=	**542**		
First Article of Inspection (FAI)	1		
Steel for all Magnets	1,068 tons		
Initial Base Term: Production D2 Magnets	32		
Option Year 1: Production D2 Magnets	144		
Option Year 2: Production D2 Magnets	18		
D2 Total Magnets=	**195**		

*Where possible, please itemize options that are significant cost drivers.