



U.S. DEPARTMENT
of **ENERGY**

Office of Critical Minerals
and Energy Innovation



METALLIC

Industry Partnership Program Overview

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METALLIC: A Nationwide Virtual Roof for Supply Chain Research

4 Centers | 9 National Labs across 10 States



METALLIC Ecosystem Overview



Four METALLIC Centers Span the Supply Chain with Focus On:

- Feedstock Beneficiation
- Extractions & Separations
- Refining
- Alloy Development and Advanced Manufacturing



METALLIC's Role as a Technology Accelerator

Bridge the innovation pipeline to deployable technology.



METALLIC Supports

- Industry
- Academia
- Government
- DOE Programs

METALLIC Industry Partnership Program (MIPP) Overview

One gateway provides industry access to all 9 lab critical mineral capabilities.

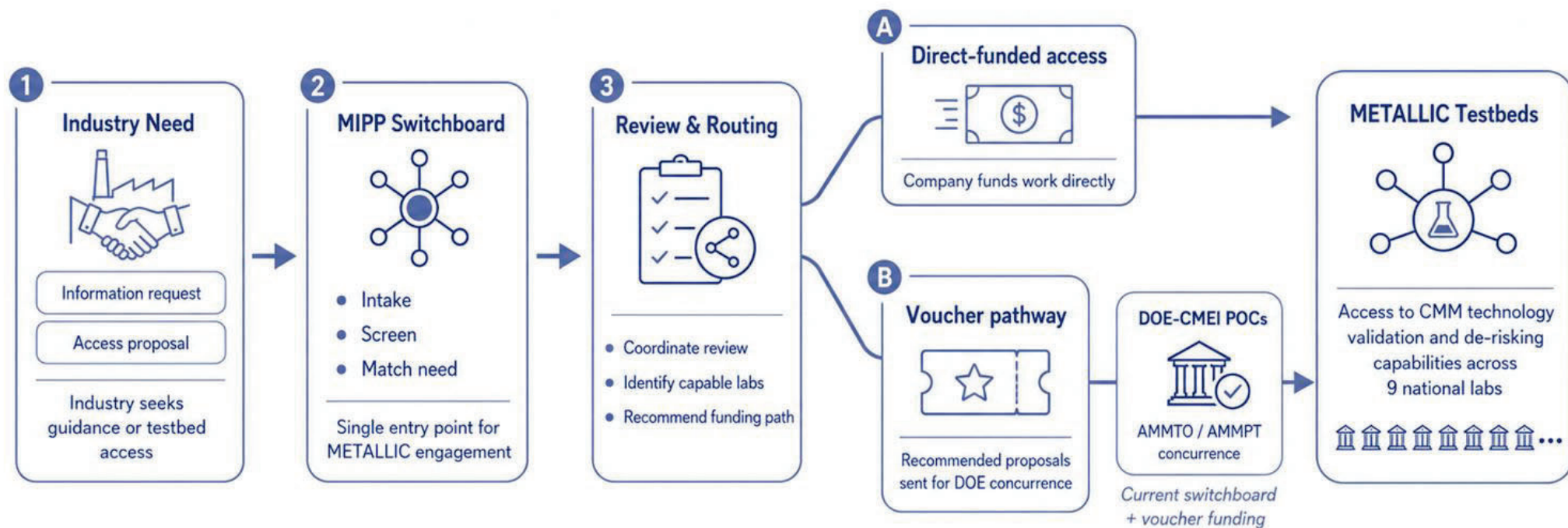
Navigate	Scope	Execute
Identify the right METALLIC center, lab capability, and technical team.	Translate industry needs into executable lab project scopes.	Launch work through vouchers, CRADAs, SPPs, or other approved mechanisms.

What MIPP Does...

- Receives industry inquiries
- Helps identify the relevant capabilities
- Routes companies to the right METALLIC center or capability
- Supports voucher and partnership pathway selection
- Enables follow-on engagement after initial technical assistance

MIPP: METALLIC Industry Partnership Program

A simple access and funding pathway for industry use of METALLIC testbeds.



Future Model

MIPP can also serve as a mechanism for other DOE offices to fund aligned scale-up and validation work through METALLIC.

Voucher Offerings Overview

Focus: industry access to METALLIC capabilities across the critical minerals and materials supply chain structure.

Phase	Purpose	Duration	Voucher Size
Phase I	Scope, assess, validate, or de-risk an initial technical question	Up to 6 months	\$150K–\$300K
Phase II	Expand promising Phase I work toward larger-scale validation, demonstration, or follow-on partnership	Up to 18 months	\$500K–\$1M

Additional Information

- Program cadence: Quarterly or bi-annual calls in selected topic areas
- Review focus: Relevance, technical/scientific merit, and impact
- Cost share: in-kind encouraged



Year 1 Funding Commitment

- AMMPT: \$10m
- AMMTOP: \$9m

Voucher Offerings

Center 1: Feedstock Beneficiation

Scope:

Prepare and upgrade feedstocks for downstream processing

Center 2: Extractions & Separations

Scope:

Recover and separate critical minerals from complex feedstocks

Center 3: Refinery

Scope:

Convert recovered materials into refined products, metals, and precursors

Center 4: Alloy Development & Advanced Manufacturing

Scope:

Develop, validate, and manufacture advanced critical material-containing products

Voucher Offering Enabling Activities:

Reduce uncertainty with data, modeling, characterization, and systems analysis

Partnership Offerings: Additional Information

Scope | Cost / Cost share | IP | Data | Timeline | Lab Capability Fit

Engagement Pathway	When It Fits	Agreement / Funding Mechanism	What Industry Company Should Expect
Direct to METALLIC	Company has a defined technical need and is prepared to fund the work directly	CRADA, or SPP/CFA	Flexible pathway for scoped technical work with METALLIC labs; agreement type depends on collaboration needs, IP expectations, data treatment, and lab/project fit
Voucher-supported access to METALLIC	Company seeks DOE-supported technical assistance to de-risk, validate, test, or advance a technology	Voucher + CRADA	DOE provides funds to support technical activity at the METALLIC lab; company applies through the voucher process and accepts the standard agreement structure if selected



**Apply on a
Rolling
Basis**

FAQs: CRADAs and SPPs/CFAs

	Cooperative Research and Development Agreement (CRADA) *Requires a Scope of Work	Strategic Partnership Project, or Contributed Funds Agreement (Proprietary)
Length of Engagement	Longer term basis: 1+ years	As defined by agreement.
Cost to Company	In-kind cost share encouraged.	Company covers full lab cost to execute scope of work.
Intellectual Property Rights	Companies own inventions they make and have an option to negotiate an exclusive license in a specific field of use to inventions made by labs.	Companies own intellectual property made or created using corporate funds as result of these engagements.
Protection of Generated Information	Commercially valuable information generated under a CRADA may be protected for 5 or more years, depending on funding source.	Companies paying for services with corporate funds can treat all generated data as their proprietary information.
Reason for Use	Cost shared collaboration and path for protection of sensitive information generated within project.	Desire to retain all generated IP, sponsor sets direction of scope of work.

Industry Next Steps

Expected Voucher launch: Fall 2026

What You Can Do Now

- **Explore METALLIC offerings online**
- **Attend** bi-monthly METALLIC open house events
- **Schedule intro meetings** through MIPP switchboard
- **Submit request for technical assistance**
- **Complete CRADA and begin work**

Future Steps: Fall 2026

- **Apply** through an open voucher call or engage as an eligible DOE awardee when technical assistance is available
- **Stand by** for match and approval process
- **Complete CRADA and begin work**

THANK YOU

<https://netl.doe.gov/metallic>



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