



U.S. DEPARTMENT
of **ENERGY**

Office of Critical Minerals
and Energy Innovation

Working with METALLIC: Laboratory to Industry for Future Talent (LIFT)

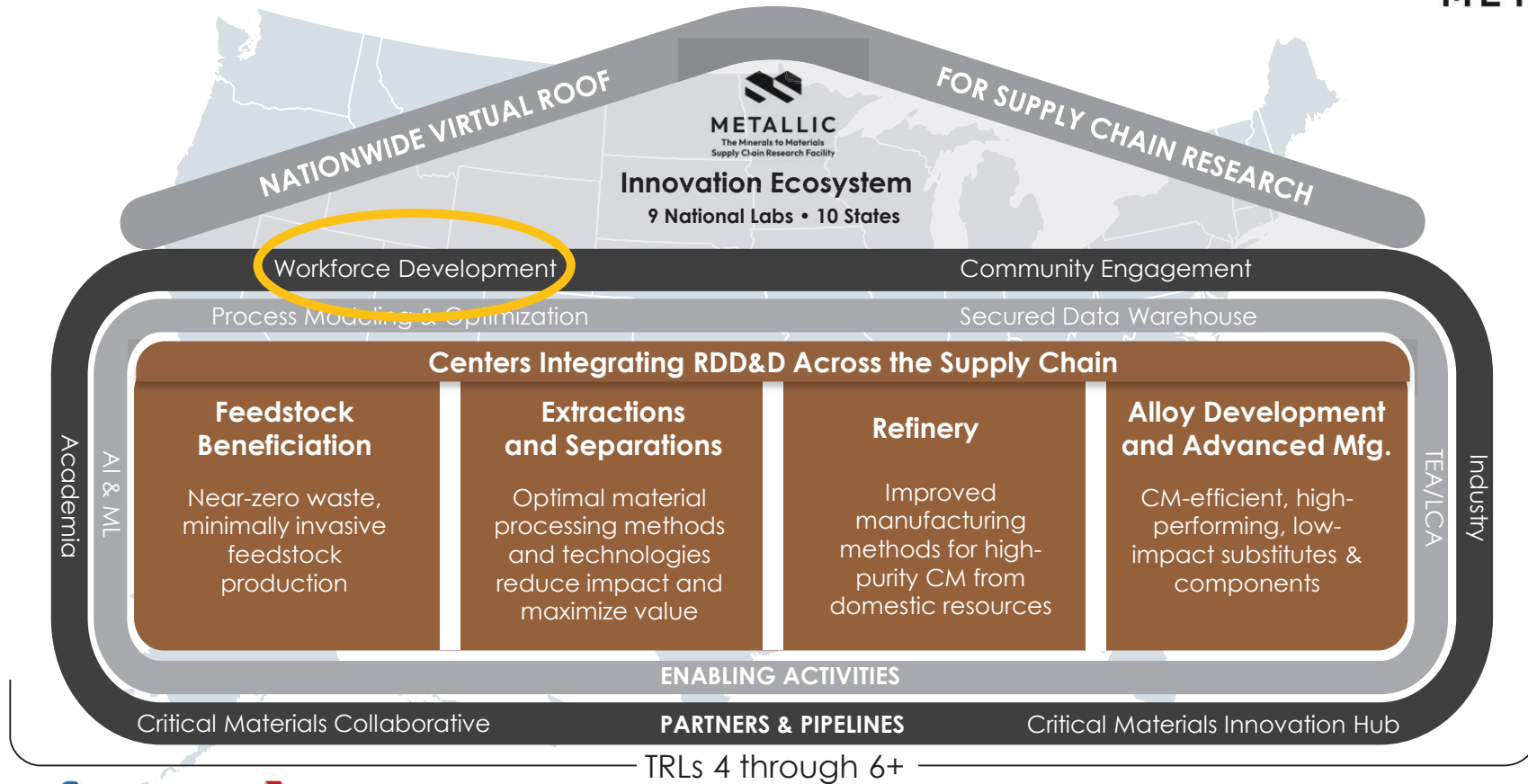
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**Want to stay informed on METALLIC LIFT
activities or get more involved?**

Email: Work-With-METALLIC@netl.doe.gov

Supporting Industry and Universities on Workforce



METALLIC LIFT – Framework Concept



An integrated workforce program, embedding workforce development activities into the METALLIC supply chain ecosystem

METALLIC-LIFT | Laboratory-to-Industry Future Talent

Embedding workforce development directly into CMM user facility activities

METALLIC Labs + Academia + Industry

FOUR PILLARS OF ACTION - ADVANCING TALENT FROM ACADEMIA & LABS TO INDUSTRY

Opportunity
Assessment

Educational Content
Development

Activation Activities

Recruitment &
Retention

Leveraging METALLIC Lab capabilities, expertise, and relationships to support DOE workforce development efforts

METALLIC Student Fellowship/Internship Program



METALLIC

Building the Future Critical Minerals and Materials R&D Workforce

A **NEW** unified portfolio of **work-based learning experiences** offered at the 9 METALLIC labs for undergraduates, masters, and PhD candidates, focused on METALLIC centers, starting at METALLIC laboratories in Fall 2026



METALLIC labs are currently building out this pathway program and implementing Fall 2026 pilot activities

MineralWorks: American Critical Materials Challenge



Now recruiting industry partners to help shape the CMM leaders and innovators of tomorrow!
Email ATVC@anl.gov to connect with the MineralWorks team.

Download the MineralWorks Notice of Program Interest:



See full video on Battery Workforce Challenge here:



 Jan. 2027 Kickoff

Activation Activity: Prize Concept

Activating business interest and tech transfer in CMM supply chain



How can the DOE National laboratories inspire students towards careers in the mining & metals sector?

DOE EnergyTech University Prize was leveraged in the past to cultivate the next generation of energy innovators while accelerating the transfer of energy technologies to market.



Student winners of the 2025 EnergyTech University Prize National Pitch Competition DOE leadership leadership

EnergyTech University Prize Highlights (2022-2025)



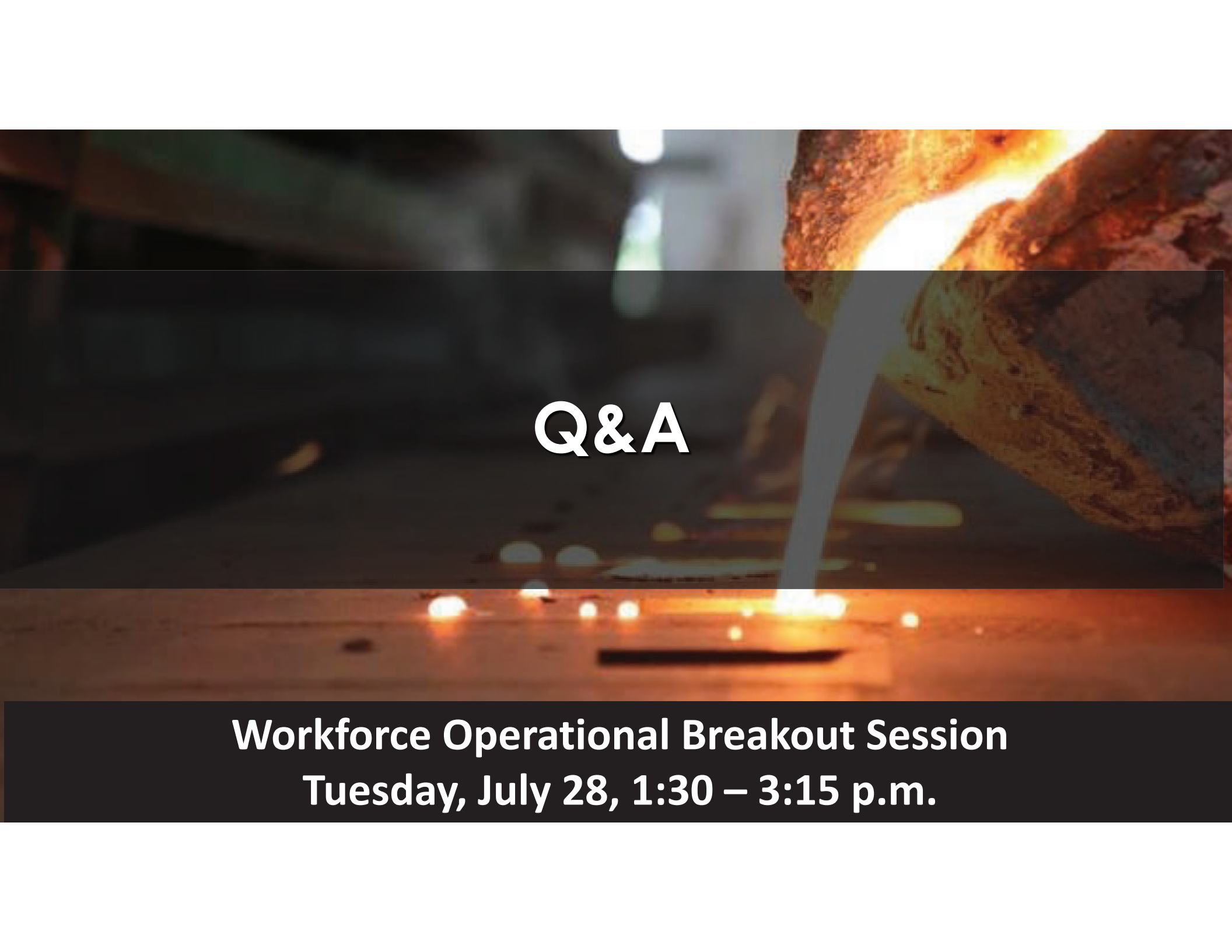
50 states plus DC and 4 U.S. territories represented



2,400+ competitors from **350+** schools
>85% report increased energy industry interest and knowledge of commercialization



12K average award across 92 teams
1.1M in awards including bonus prizes from 9 DOE offices
Millions in follow-on funding secured by winning teams

A background image showing a close-up of molten metal being poured from a ladle into a mold. The metal is bright orange-yellow, and the surrounding environment is dark and industrial.

Q&A

**Workforce Operational Breakout Session
Tuesday, July 28, 1:30 – 3:15 p.m.**

METALLIC LIFT Workshop at ORNL

August 21, 2026, Friday



- A one-day workshop on the workforce needs in CMM, with emphasis on extractions and separations (Center 2)
- Participants will include representatives from industrial partners, interested academic institutions, ORNL, and METALLIC leadership
- Help set the agenda for academic response and Laboratory experiential learning (internship) planning
- There is no fee to attend but registration is required
- Register [here](#).



The registration deadline is August 3

For questions please contact:

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William Jenks – ORNL (jenksws@ornl.gov)

Edgar Lara-Curzio – ORNL (laracurzioe@ornl.gov)

Thank you

