#### U.S. DEPARTMENT OF

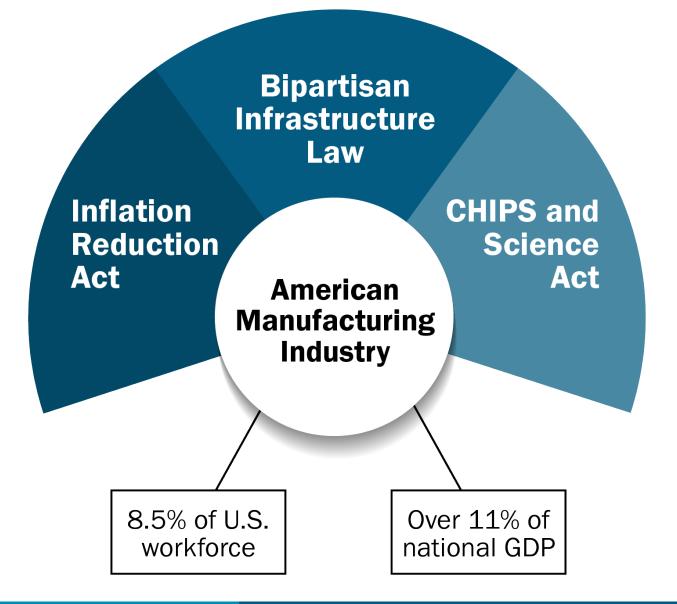
Office of ENERGY EFFICIENCY & RENEWABLE ENERGY

ADVANCED MATERIALS & MANUFACTURING TECHNOLOGIES OFFICE

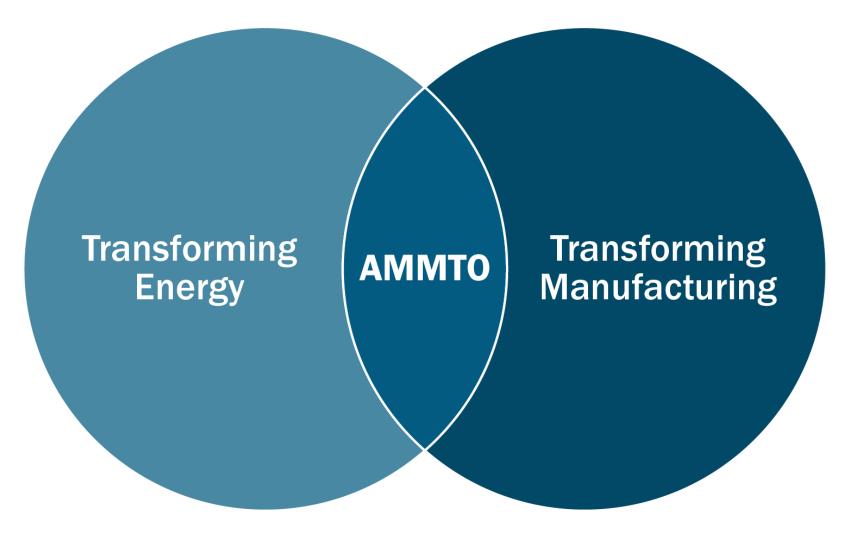
## AMMTO Strategy Overview and Budget

Dr. Diana Bauer AMMTO Deputy Director

#### **Unprecedented Federal Investment in Manufacturing**



#### **AMMTO's Unique Role in American Manufacturing**



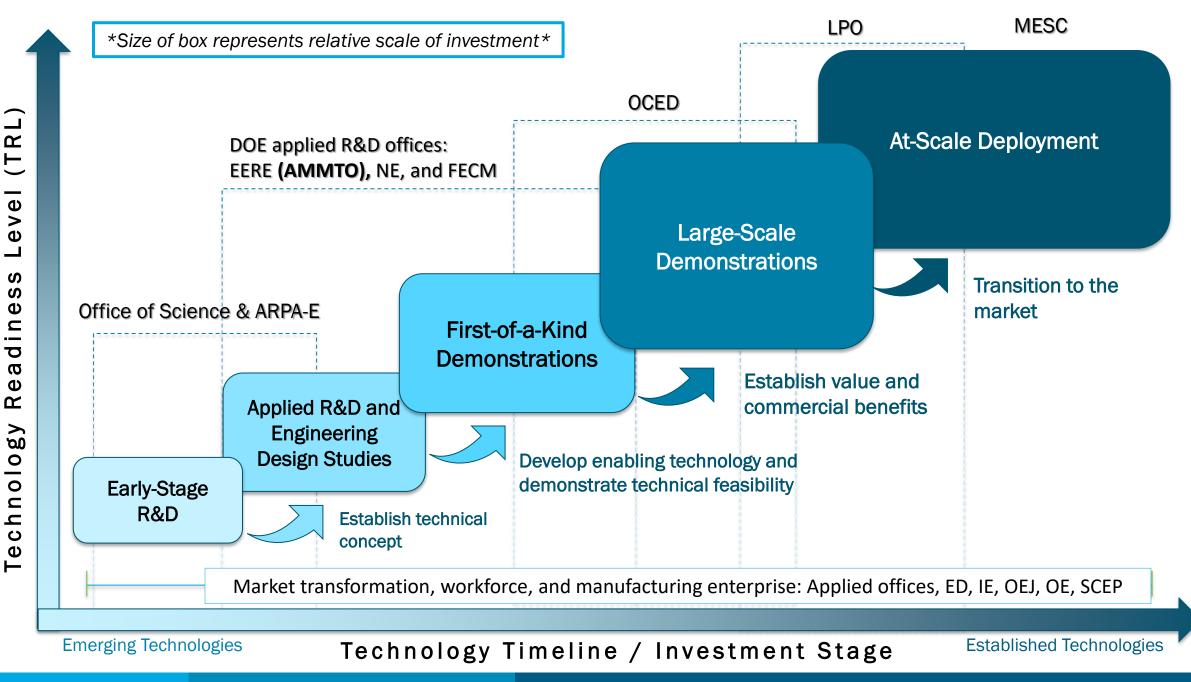
#### What is AMMTO All About?

## Vision

A globally competitive U.S. manufacturing sector that accelerates the adoption of innovative materials and manufacturing technologies in support of a clean, decarbonized economy.

# Mission

We inspire people and drive innovation to transform materials and manufacturing for America's energy future.





Education and Workforce Development

#### Innovation Ecosystems

Diversity, Equity, Inclusion, and Accessibility

## Diversity, Equity, Inclusion, and Accessibility (DEIA) Focus

We seek to create a future manufacturing workforce that reflects the diversity of Americans and ensure that all Americans benefit from a decarbonized economy.



Increasing **Diversity** in Partnerships, Applicant FOA pool, and FOA Reviewers



Using **Inclusive** Language to welcome broader participation in funding opportunities



Identifying **Equity**-related barriers that impact advanced materials and manufacturing technologies

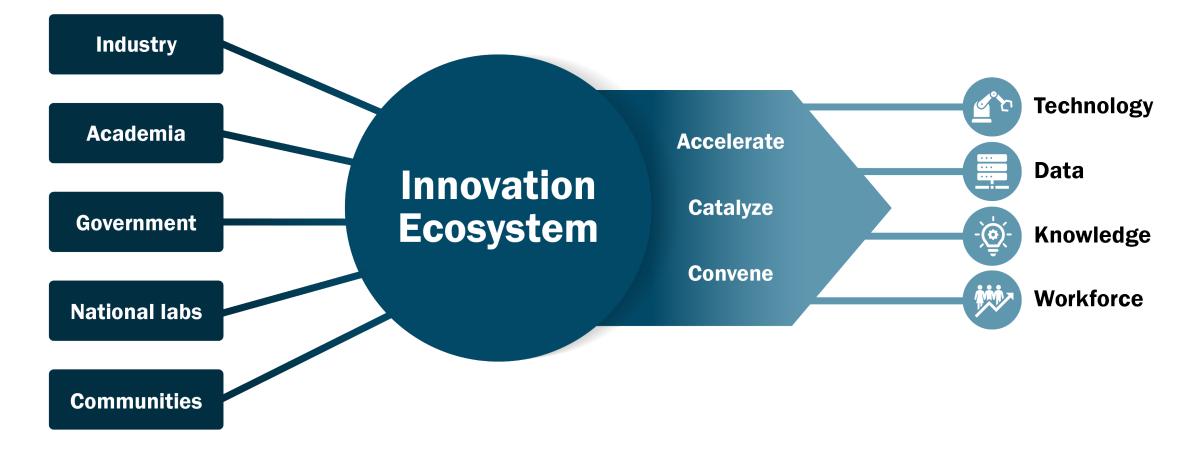


Expanding Accessibility for Disadvantaged Communities (DACs), including through community-based stakeholder engagement

AMMTO is committed to empowering diverse communities to have a voice in shaping the future of manufacturing.As AMMTO solidifies its identity, we are committed to amplifying best practices for DEIA internally and externally.

#### **Innovation Ecosystems**

The evolving set of stakeholders, resources, and activities—and the relationships and connections among them—that drive technological advancement.



#### **Consortia Seed Innovation Ecosystems**









#### CYN/NII the cybersecurity manufacturing innovation institute





Critical Materials Institute

#### **AMMTO's Emerging Education and Workforce Focus**

#### A robust advanced manufacturing ecosystem depends on an educated, innovative, diverse, and nimble workforce.



AMMTO will continue to work across the U.S. manufacturing sector to help create a manufacturing workforce of the future that will be ready for the clean energy transition.

## **AMMTO's Subprogram Structure**

NEXT-GENERATION MATERIALS & PROCESSES	SECURE & SUSTAINABLE MATERIALS	ENERGY TECHNOLOGY MANUFACTURING & WORKFORCE	
Advanced Manufacturing Processes and Systems	Circular Economy Technologies and Systems	<image/> Image: A constraint of the cons	
High Performance Materials	Critical Materials		

Advanced Mfg.

Workforce

# INTERAGENCY COLLABORATION















### **AMMTO Budget and Subprogram Breakdown**

	FY22 Enacted (\$Million)	FY23 Enacted (\$Million)	FY24 Proposed (\$Million)
	217	184	241
Next-Generation Materials and Processes	107	90	90
Secure and Sustainable Materials	66	40	91
Energy Technology Manufacturing and Workforce	44	54	60

### **AMMTO'S 2023 Programming**

#### NEXT-GENERATION MATERIALS & PROCESSES

- Renewal of Institute for Advanced Composites Manufacturing Innovation
- Near Net Shape Manufacturing FOA
- Wind Turbine Manufacturing FOA
- Smart Manufacturing Workshop Series
- High Performance Computing for Manufacturing
- Conductivity-Enhanced (CABLE) Manufacturing Prize

SECURE AND SUSTAINABLE MATERIALS

- Lithium from Geothermal Brines FOA
- Circular Economy RFI
- Critical Materials Education and Workforce Development Workshop
- Critical Materials Assessment
  Notice of Intent\*

ENERGY TECHNOLOGY MANUFACTURING & WORKFORCE

- Microelectronics LC
- Battery Manufacturing LC
- Technology Commercialization Fund LC
- Microbattery Design Prize
- Energy Efficiency Scaling for 2 Decades (EES2) National Initiative
- Lab-Embedded Entrepreneurship
  Program
- ReCell Battery Rejuvenation LC

\*RFI forthcoming May 30th

#### SBIR and STTR

#### AMMTO Multi-topic Funding Opportunity

- Increased Conductivity Metal-Based Material Systems
- Harsh Environmental Materials
- Enhanced Thermal Conductivity Materials\*\*

AI/Machine Learning for Aerostructures Material Circularity Regional Demonstrations

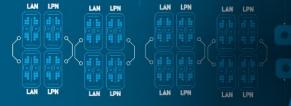
• Advanced Process Manufacturing of Electric Vehicle Cathode Active Materials at Volume

\*\* IEDO Multi-topic FOA sub-topic

#### **Bottom Lines**

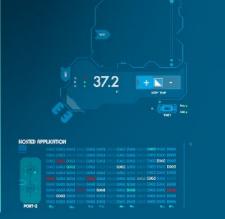






# Thank you!





diana.bauer@ee.doe.gov