



# Workforce, Education and Vibrant Ecosystems (WEAVE) Funding Opportunity

Informational Webinar for Eligible Applicants

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Office of Advanced Manufacturing, NIST

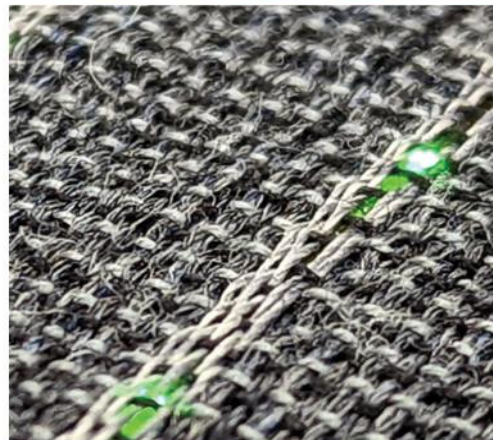
August 14, 2023

An interagency team building partnerships with U.S. industry and academia





# OVERVIEW





# About Manufacturing USA

**VISION:** Securing U.S. Global Leadership in Advanced Manufacturing

**MISSION:** Connecting people, ideas, and technology to:

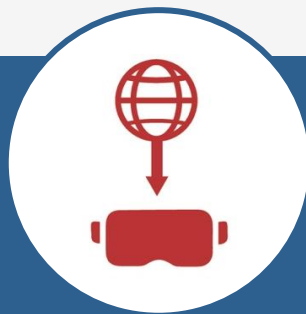
- solve industry-relevant advanced manufacturing challenges
- enhance industrial competitiveness and economic growth
- strengthen our national security



# Purposes



**IMPROVE  
COMPETITIVENESS**



**SECURE U.S.  
LEADERSHIP IN  
ADVANCED MFG**



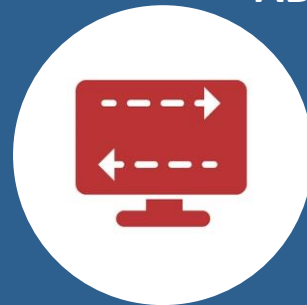
**SCALE  
MANUFACTURING  
TECHNOLOGIES**



**DEVELOP ADVANCED  
MANUFACTURING  
WORKFORCE**



**PROVIDE SHARED  
RESOURCES AND  
FACILITIES**



**EXCHANGE BEST  
PRACTICES**



**INCREASE  
PARTNERSHIPS AND  
COLLABORATION**



**BOOST  
MANUFACTURING  
EMPLOYMENT**



**DEVELOP  
INNOVATION  
ECOSYSTEMS**

# Strategic Goals



## GOAL 1

Increase the competitiveness of U.S. manufacturing



## GOAL 2

Facilitate the transition of innovative technologies into scalable, cost-effective, and high-performing domestic manufacturing capabilities



## GOAL 3

Accelerate the development of an advanced manufacturing workforce



## GOAL 4

Promote a network of institutes that build long-term support for and from their communities

# Manufacturing USA Network

## ELECTRONICS



Integrated Photonics  
Albany, NY  
Rochester, NY



Flexible Hybrid  
Electronics  
San Jose, CA



Wide Bandgap Semiconductors  
Raleigh, NC

## MATERIALS



Advanced Fibers and  
Textiles  
Cambridge, MA



Advanced Composites  
Knoxville, TN  
Detroit, MI



Advanced Materials  
Detroit, MI

## ENERGY/ ENVIRONMENT



Modular Chemical  
Process Intensification  
New York, NY



Sustainable  
Manufacturing  
Rochester, NY



Smart Manufacturing  
Los Angeles, CA



Industrial Process  
Decarbonization  
Phoenix, AZ

## DIGITAL/ AUTOMATION



Additive Manufacturing  
Youngstown, OH  
El Paso, TX



Advanced  
Robotics & AI  
Pittsburgh, PA



Digital  
Manufacturing &  
Cybersecurity  
Chicago, IL



Cybersecurity in  
Manufacturing  
San Antonio, TX

## BIO- MANUFACTURING



Regenerative  
Manufacturing  
Manchester, NH



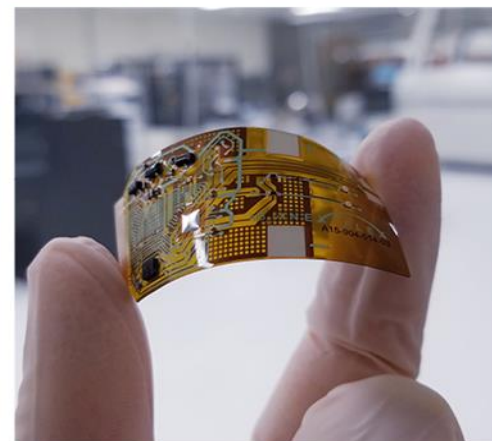
Biopharmaceutical  
Manufacturing  
Newark, DE



Bioindustrial  
Manufacturing  
St. Paul, MN



# IMPACTS





# Manufacturing USA Network

**2022  
Impacts**



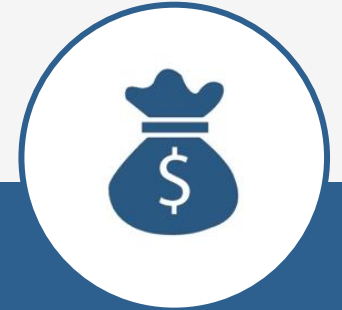
Work with  
**2,500+**  
Member  
Organizations



Collaborate on  
**670+**  
major applied  
research and  
development  
projects



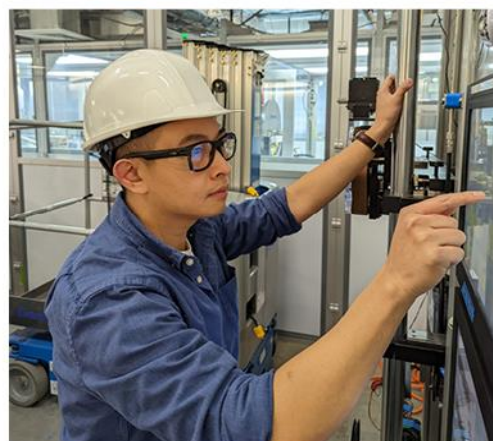
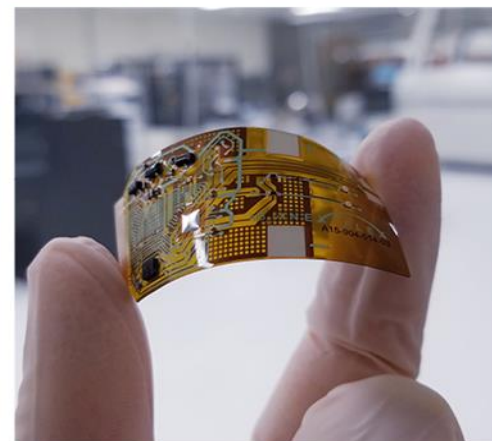
Engage  
**106,000+**  
people with  
workforce  
knowledge and  
skills in advanced  
manufacturing



Invest  
**\$416M**  
in these activities  
from state, industry,  
and federal funds



# FY 2023 Omnibus





# FY 2023 Omnibus

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NIST appropriations to implement Division B of Public Law 117–167 (the CHIPS and Science Act) codified in 42 USC § 18971 and 42 USC § 18972.

*Statute directs NIST to:*

- *expand opportunities within Manufacturing USA through integration of ‘covered entities,’*
- *and to promote domestic production of institute developed technologies.*

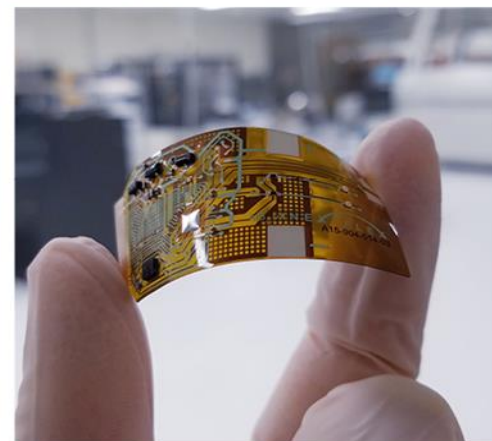
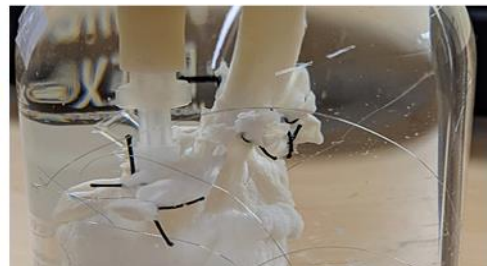
The WEAVE funding opportunity allows **ALL** Manufacturing USA institutes to apply for special initiative funding to address these directives that are in the national need and that are unlikely to be funded by the private sector.



## Covered Entities – Defined in 42 USC § 18971

- Historically Black Colleges and Universities (HBCUs)
- a Tribal College or University
- a minority-serving institution
- a minority business enterprise (as such term is defined 15 C.F.R. 1400.2)
- a rural-serving institution of higher education (as such term is defined in 20 U.S.C. 1161q)

# Funding Opportunity





## Legal Disclaimer

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*The notice of funding opportunity (NOFO) is the official competition document. Nothing in this presentation is intended to contradict or supersede the NOFO in any way. Any questions regarding the terms of the competition must be resolved by referring to the NOFO.*

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=349721>

# Public Service Funding Opportunity

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## Objective

**W**orkforce, **E**ducation, and **V**ibrant **E**cosystems (WEAVE) Awards will fund high-impact projects within the Manufacturing USA network to support vibrant and inclusive advanced manufacturing ecosystems and expand successful institute-sponsored workforce development programs to promote domestic production of institute-developed technologies.



# Public Service Funding Opportunity

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## WEAVE Focus Areas

1. Partnerships amongst two or more Manufacturing USA institutes to build vibrant and diverse ecosystems, through increased engagement with covered entities.
2. Partnerships amongst two or more Manufacturing USA institutes to pilot new or scale existing initiatives to promote the transition of institute-developed technologies into commercial use.

# Topics Covered Today

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## Notice of Funding Opportunity

- Eligibility
- Application Deadline
- Scope
- Funding
- Evaluation Criteria
- Application Process



# Eligibility

Only Manufacturing  
USA institutes are  
eligible to apply

AFFOA, AIM Photonics, America Makes, ARM Institute, BioFabUSA, BioMADE, CESMII, CyManII, EPIX, IACMI, LIFT, MxD, NextFlex, NIIMBL, PowerAmerica, RAPID, and REMADE.

Requirement for  
Multi-Institute  
Proposal Teams

Application must be a partnership of two or more current Manufacturing USA Institutes

Ineligible applicants

Members of the institutes, individuals, and organizations not associated with the institutes are NOT eligible to apply under this NOFO; however, they may participate as part of an institute's team.

# Funding



**PROPOSALS UP  
TO \$3.5 M**



**NON-FEDERAL COST-  
MATCH IS NOT  
REQUIRED**

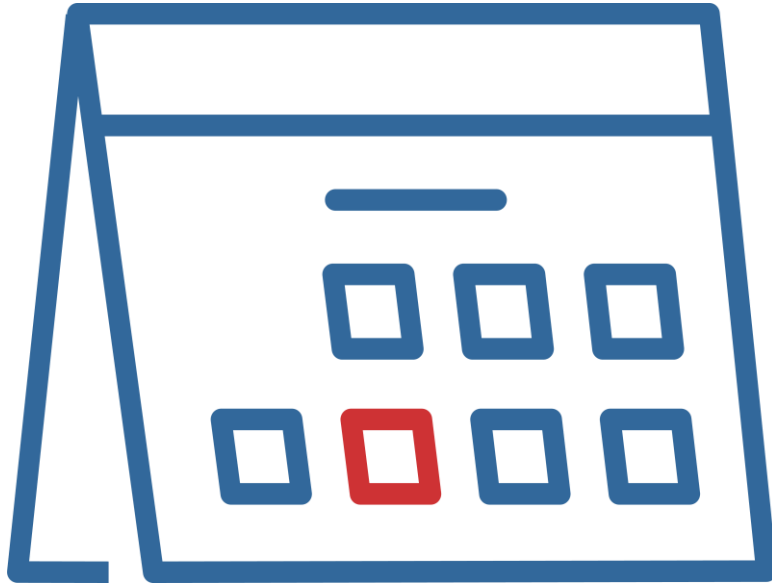


**PERIOD OF  
PERFORMANCE:  
up to 24  
MONTHS**



# Application Deadline

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**11:59PM ET**

**Oct 2, 2023**

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=349721>

# Scope

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All proposed projects within the scope of the two focus areas will be considered responsive to this NOFO.



In forming partnerships and project teams across institutes, NIST encourages outreach to, recruitment of, and engagement with diverse stakeholders to maximize the extent of geographic and institutional diversity, equity, and inclusion among project participants.



# Public Service Funding Opportunity

## WEAVE Focus Areas

1. Partnerships amongst two or more institutes to build vibrant and diverse ecosystems, through increased engagement with covered entities.
2. Partnerships amongst two or more Institutes to pilot new or scale existing initiatives to promote the transition of institute-developed technologies into commercial use.

- Project examples listed in the NOFO in each focus area are just examples, not mandates.
- If proposing EWD projects, the project must serve one of these two focus areas.
- Non EWD projects that serve these focus areas are also in scope.

# Funding Limitations

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- Applications for product development and/or commercialization are not considered responsive to this NOFO and will not be considered for funding.
- Profit or fee is not an allowable cost under this program. Accordingly, a recipient or a subrecipient may not charge profits, fees, or other increments above cost to an award issued pursuant to this NOFO.
- Construction activities are not authorized under this program.





# Project Teaming



Bring together key expertise across institutes, access to facilities, or specialized goods and services for a larger national or regional impact.



Strongly supports outreach to, recruitment of, and engagement with a diverse array of project participants.



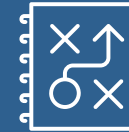
Require Letters of commitment from all partners committing resources to the project.

## Evaluation – Section V.



Project Rationale

Project Plan and Execution



Impact, Outcomes, and Dissemination

Project Management, Resources and Budget





# Helpful Tips

Page limits are generous for your convenience. Do not feel compelled to fill all pages.

Budgets should include estimated travel costs for project leads to attend two in-person Manufacturing USA network meetings in the Washington, DC area.

Please note requirements in NOFO for data management plans.

Budgets for any sub-projects proposed need to include enough detail to determine rationality.

Grants.gov helpline is available 24/7 EXCEPT on federal holidays. Ask for help before the application deadline!

Figures, graphs, images, and pictures should be of a size that is easily readable or viewable.



## Additional Information

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- FAQs are posted and will be updated at <https://www.nist.gov/oam/workforce-education-and-vibrant-systems-weave-faq>
- Applicants must submit all questions in writing to [manufacturingusa@nist.gov](mailto:manufacturingusa@nist.gov) with “FY2023 WEAVE Questions” in the subject line.



# Questions and Answers





# Together We are Securing America's Manufacturing Future



Get involved:



[ManufacturingUSA.com](http://ManufacturingUSA.com)



[@MFGUSA](https://twitter.com/MFGUSA)



[MFGUSA](https://www.linkedin.com/company/mfgusa)