



ManufacturingUSA®

NIST Manufacturing USA Rapid Assistance (for) Coronavirus Economic Response (RACER)

Funding opportunity for Manufacturing USA Institutes

June 2, 2021

Advanced Manufacturing National Program Office, NIST
An interagency team building partnerships with U.S. industry and academia

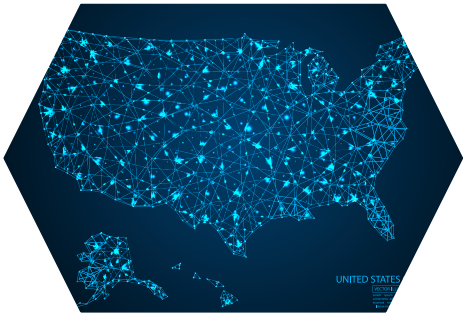


Manufacturing USA[®]: Securing U.S. Global Leadership in Advanced Manufacturing

Mission: Connecting people, ideas, and technology

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

Purposes of Manufacturing USA



Competitiveness



Leadership



Scale
Technology



Shared
Resources



Workforce
Development



Knowledge
Transfer



Partnership

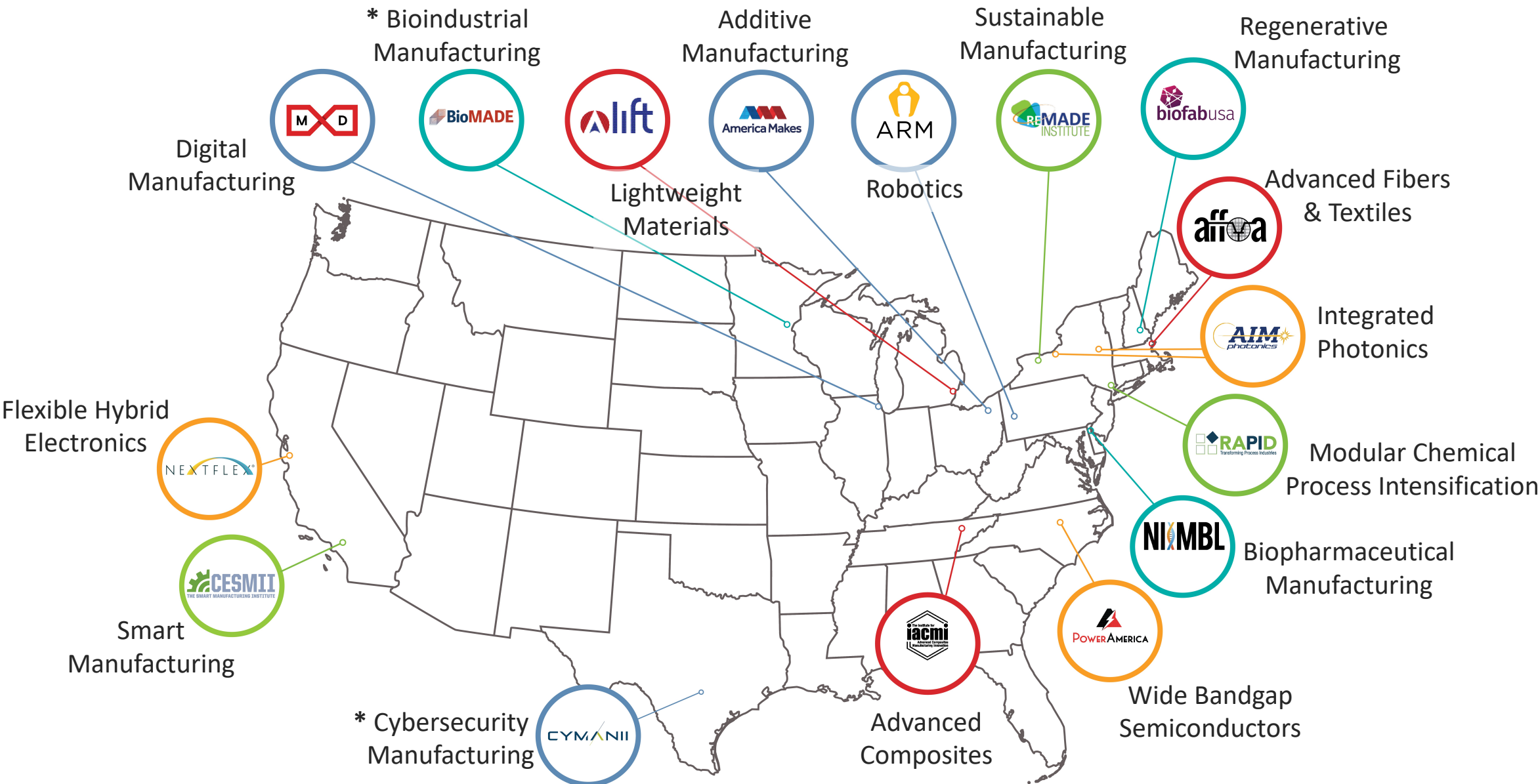


Manufacturing
Employment

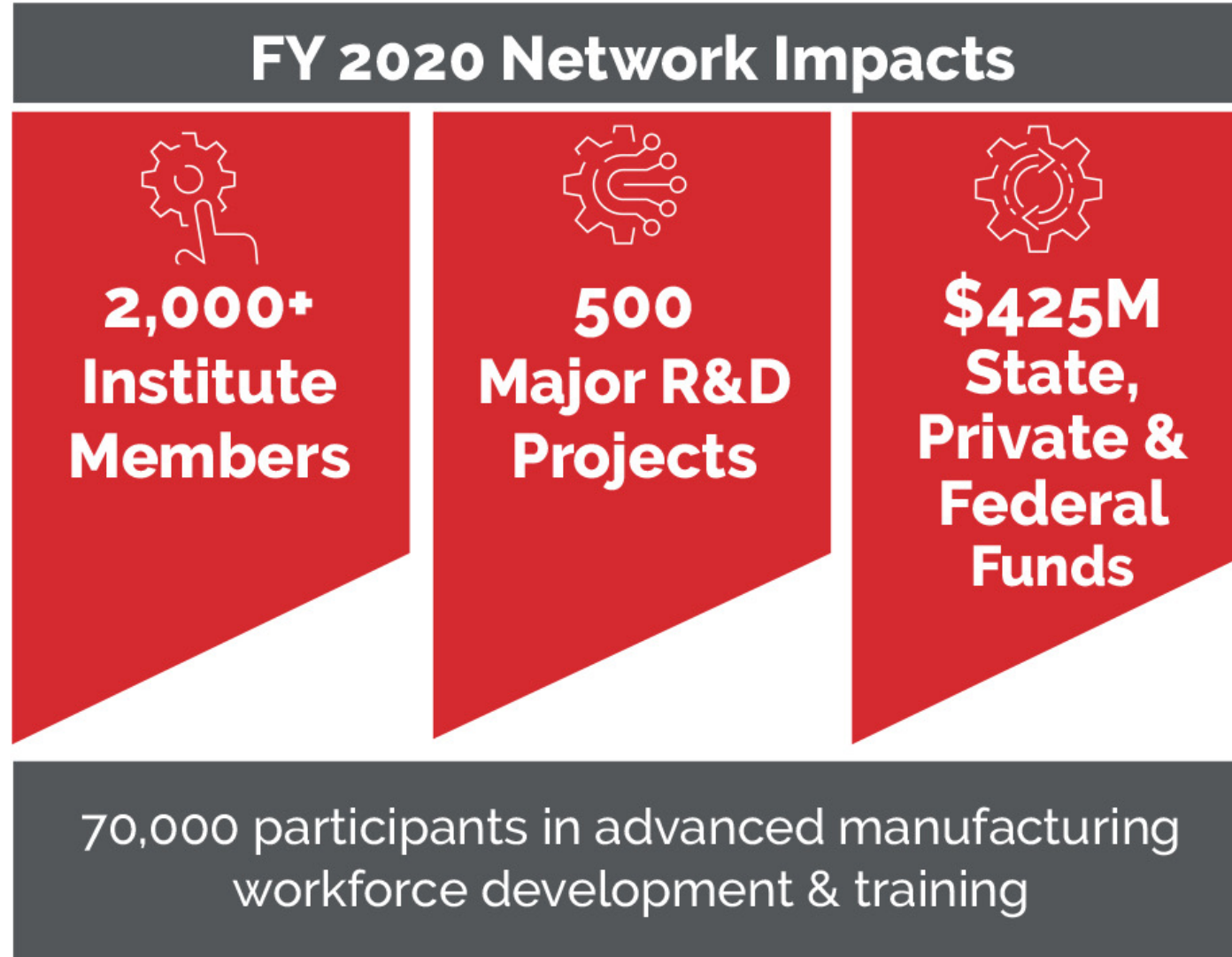


Innovation
Ecosystems

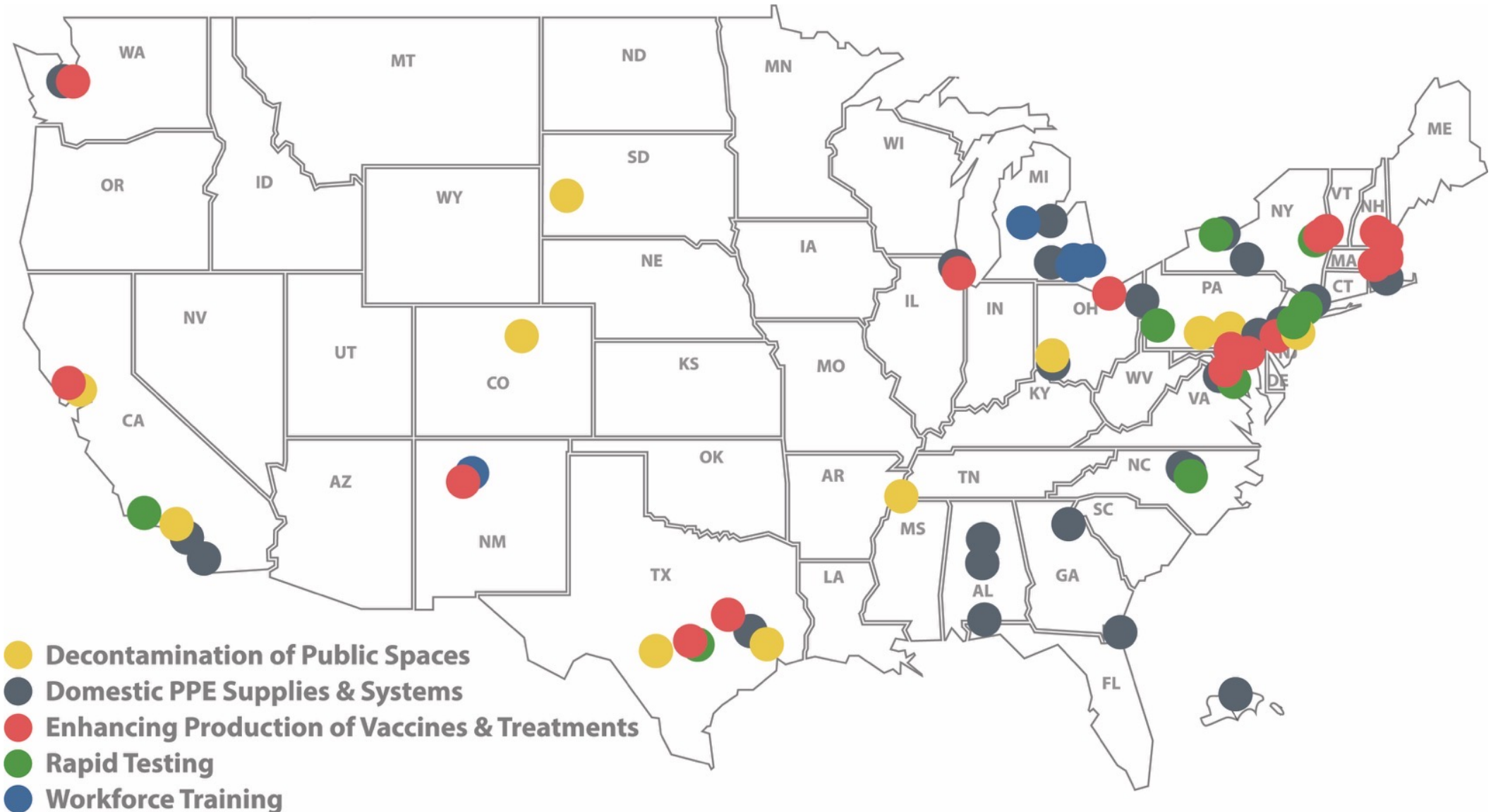
Manufacturing USA Institute Network



2020 Network Impacts



Manufacturing Innovations to Combat COVID-19: funding from CARES Act



Special Publication: March 2021

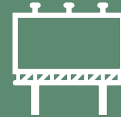


NIST: 2020 Manufacturing USA National Emergency Assistance Program (NEAP) and NIIMBL Awards

Used new public service
grant authorities to fund
non-NIST institutes



Requested high-impact
projects to respond to
COVID-19 pandemic



Proposals reviewed on a
rolling basis



\$220 M
projects proposed



39 eligible proposals
from 12 institutes (10/2020)



5 institutes
\$12.4M in Awards



Legal Disclaimer

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.

grants.gov/web/grants/view-opportunity.html?oppld=333762

American Rescue Plan

Purpose for Funding

Sec. 7501. National Institute of Standards and Technology

“...to fund awards for research, development, and testbeds to prevent, prepare for, and respond to coronavirus.”

1. The commas are important. You can interpret those words in that phrase separately. More on this later.
2. NIST is running this competition as function of the Manufacturing USA National Program Office and the Congressionally mandated role to support the network of institutes.

Topics in Today's Webinar



RESPONSE

Notice of Funding Opportunity

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

Eligibility:

Only Manufacturing USA institutes



Only Manufacturing USA institutes are eligible

- not receiving financial assistance [under 15 U.S.C. § 278s\(e\)](#)
- In other words, AFFOA, AIM Photonics, America Makes, ARM, BioFabUSA, BioMADE, CESMII, CyManII, IACMI, LIFT, MxD, NextFlex, PowerAmerica, RAPID, or REMADE (but not NIIMBL)



An institute may

- work individually,
- include proposed subawards to other institutes, or
- Include proposed contracts with other organizations

Application Deadline

Fixed Date

11:59 pm
July 26, 2021

This is different than the 2020 NEAP program which had a rolling admission.

Funding

Single Institute
Proposals: Up to **\$5M**
Period of Performance:
24 months

Multi-institute
Proposals: Up to **\$15M**
Period of Performance:
36 months

Scope



Any proposal “...for research, development, and testbeds to prevent, prepare for, and respond to coronavirus” considered responsive.



Project ideas proposed but not funded in 2020 NEAP competition may be resubmitted with updated technical proposal and budget information.

Illustrative Projects

May include, but are not limited to:

- innovative medical and non-medical countermeasures;
- strengthening state and community resilience by leveraging institute capabilities;
- creating testbeds or small-scale production facilities;
- establishing or reshoring critical supply chains;
- or workforce development and training for a skilled advanced manufacturing workforce.

Remember:

any proposal that focuses on “research, development, and testbeds to prevent, prepare for, and respond to coronavirus” will be considered responsive.

Project Teams



Bring together key expertise, access to facilities, or specialized goods and services especially if this will result in a larger national or regional impact.



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



NIIMBL may participate in projects as an unfunded collaborator.



Letters of commitment needed from all known partners.

Equity and Diversity

Looking for diversity in the project teams and equity in the project outcomes

- Try engaging Minority Service Institutions
- Think about how your project may benefit low-socio-economic or rural regions



Evaluation Criteria

Rationale

Appropriate areas of focus
Institute(s) mission(s) alignment
Enhances the U.S. advanced manufacturing infrastructure; and
Advance discovery and understanding
In national interest?
Unlikely to receive private sector financial support?

Plan & Execution/Merit

Coherence (conception and organization) of the approach
Clear project goals, objectives, and deliverables that are specific, measurable, achievable, and trackable
Extent to which the application effectively addresses national advanced manufacturing needs issues

All criteria will be weighted equally.

Evaluation Criteria (cont.)

Impact, Outcomes, & Dissemination

- Likelihood for substantial contribution
- Clear methodology for identifying and analyzing project outcomes
- plans to track the outcomes

Project Management, Resources, & Budget

- Management structure
- Clearly identified roles and skill alignment
- Access to necessary facilities and expertise
- Assessment of the overall budget and at sub-project level

All criteria will be weighted equally.

Evaluation

Merit Review

- Three reviews
- DoD, DOE, and DOC/NIST

Panel

- Federal panel of at least 3 people
- A programmatic review

Selection Factors: One or more



Alignment with grant program objectives & Manufacturing USA purposes and activities



Duplication of efforts



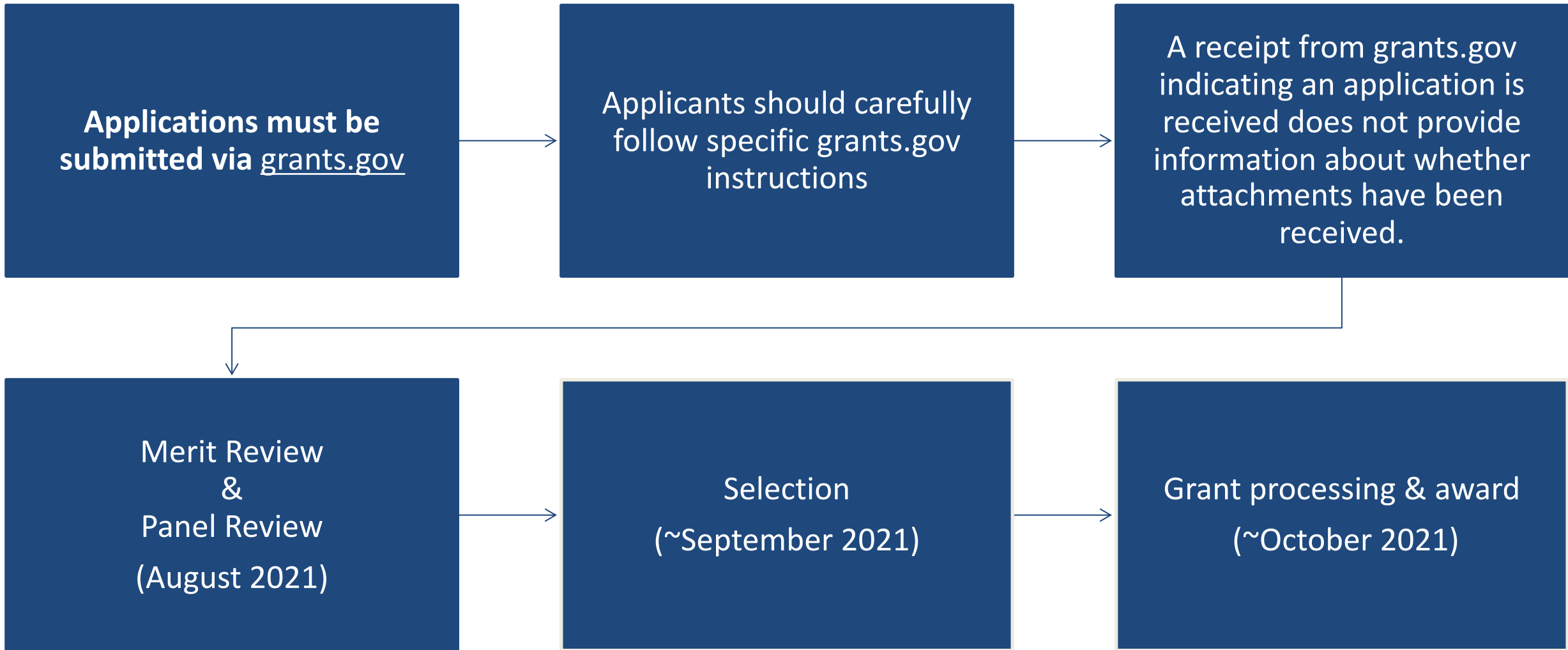
Geographic diversity (project participants), the distribution of project work among urban, suburban, and rural communities, and outcomes



The institutional diversity of project participants: SMEs, women, minorities, veterans, state/local/tribal governments, schools (CTE/community colleges/universities)

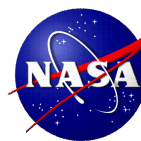
Disclaimer: NOFO has the exact language

Grants Process & Info



For further information or questions about the application process, contact grants.gov or 800-518-4726.

Together We Are Securing America's Manufacturing Future



Questions + Answers



BACKUP

NIST CARES Act: COVID-19 Response Projects



Technology roadmap for pandemic response and recovery

BioFabUSA



Automated COVID-19 Testing

ARM



Virtual Workforce development + training

LIFT



Biomedical equipment and supplies development, manufacturing

America Makes



Virus proteins for improved blood testing; rapid in-house testing; source domestic supply chains

NIIMBL

Executive Orders

- Executive Order On Advancing Racial Equity and Support for Underserved Communities Through the Federal Government
 - **Engagement with Members of Underserved Communities**
- Executive Order on Ensuring the Future Is Made in All of America by All of America's Workers