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OFFICE OF MANUFACTURING AND ENERGY SUPPLY CHAINS

Program Overview: State Manufacturing Leadership Program

Bipartisan Infrastructure Law (Section 40534)

DE-FOA-0002969

FOA2969@netl.doe.gov





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BIL 40534: State Manufacturing Leadership Program

Full Applications Due:
May 30, 2023 at 5:00pm ET

FOA Released March 31, 2023 for up to \$46 million in funding

- Funding will support **State Programs** to assist small- and medium-sized manufacturers (SMMs) to:
 - Implement **smart manufacturing technologies** and practices; and
 - Access **high-performance computing (HPC)** resources
- Awards of **up to \$2 million** with a 3-year term and at least a 30% cost match
- States are encouraged to leverage existing national/state/regional/local partners and resources

Promoting the benefits of smart manufacturing technologies among SMMs based on economic development and supply chain priorities

Connecting SMMs with a diverse coalition of public and private technical assistance providers

Partnering with labor, workforce and other stakeholders to expand and diversify the smart manufacturing talent pool

Developing, promoting, and scaling adoption of smart manufacturing training that can foster innovation on SMM shop floors

Providing financial assistance to facilitate SMMs' access to and implementation of smart manufacturing resources and technologies

Setting State-level performance metrics, targets and goals for program participation and desired outcomes

FOA can be found at: <https://infrastructure-exchange.energy.gov/Default.aspx>

Ensuring that the benefits of smart manufacturing adoption by SMMs flow to disadvantaged communities and dislocated workers

Establishing programs that will be self-sustaining in the long run, following a federal award



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Overview: Smart Manufacturing and High-Performance Computing

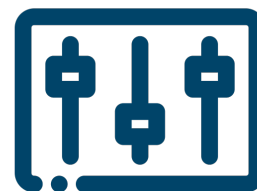
Smart Manufacturing: the use of emerging and advanced technologies to increase the efficiency of traditional manufacturing processes, resulting in fully-integrated, collaborative manufacturing systems that respond in real time.



Sensors
Controllers



Digital Prototyping
Network
Hardware



Machine Learning
Additive Manufacturing



High Performance Computing (HPC): the use of supercomputers, sophisticated models, and/or large data sets to study and solve complex scientific and technological challenges.



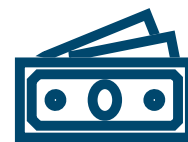
Safer design
testing



Faster error
detection



Fewer rejected
parts



Lower product
costs

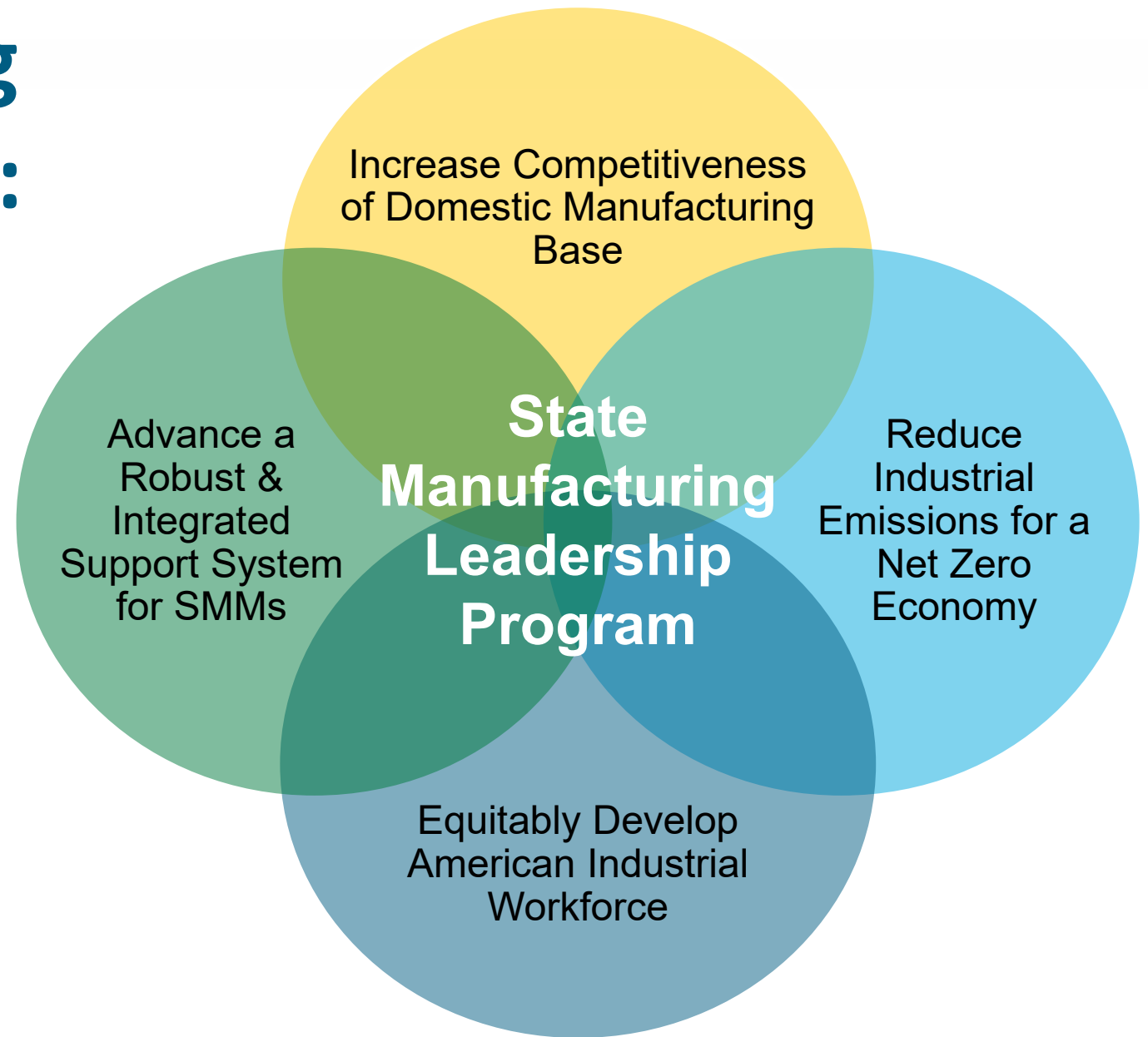


Greater
competitiveness



State Manufacturing Leadership Program:

Strategic Goals



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Program Design

Supporting smart manufacturing adoption and HPC access for SMMs through leveraging **existing technical assistance (TA) providers and programs**

Existing Resources

Expertise available to:

- Deliver workforce training
- Provide access to technology resources
- Facilitate use of HPC technology

Example resources:

- MEP Centers
- Manufacturing USA Institutes
- Industrial Assessment Centers
- National Laboratories
- Institutes of Higher Education

State Programs

Proposed use of funds

- Create/expand TA Programs
- Identify TA Providers
- Provide financial assistance for Smart Manufacturing adoption and HPC access
- Leverage existing regional/state resources
- Recruit SMMs to participate in the program
- Assist SMMs with accessing in-state or national resources

SMMs

Receive

- Training and TA from state-run programs
- Financial assistance for technology and resource adoption / access
- Access to resources available through existing smart manufacturing resources

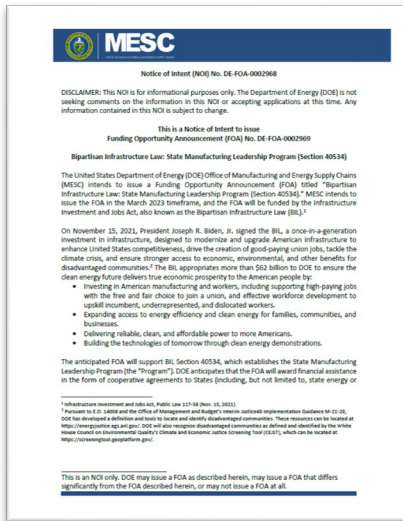


Links and Engagement Opportunities

State Manufacturing Leadership Program

<https://www.energy.gov/mesc/manufacturing-leadership-sec-40534>

Read the Funding Opportunity Announcement (FOA)



[Link here](#)

Join the Program's Teaming Partner List

DOE is compiling a "Teaming Partner List" to facilitate forming of new project teams for Program

- Express your participating interest to other applicants
- Explore **potential partnerships**

Updates to the Teaming Partner List will be available on the Infrastructure Exchange [website](#) and updated regularly

Submission instructions can be found in the FOA



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Questions?

Email:

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Thank you!



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Helpful Links

Bipartisan Infrastructure Law Homepage <https://www.energy.gov/bil/bipartisan-infrastructure-law-homepage>

Office of Manufacturing and Energy Supply Chains Homepage
<https://www.energy.gov/mesc/office-manufacturing-and-energy-supply-chains>

State Manufacturing Leadership Program
<https://www.energy.gov/mesc/manufacturing-leadership-sec-40534>

