



# DEPARTMENT OF DEFENSE MANUFACTURING INNOVATION INSTITUTES

## Quick Start Opportunity Guide for



## Industry & Academia

**Department of Defense Manufacturing Innovation Institutes (DoD MIIs) connect organizations and investments to enable the affordable, rapid transition of defense-essential technologies.**

National and economic security rely on a robust American industrial base armed with the **advanced manufacturing** technologies needed to deliver critical products and systems rapidly and affordably. As adversarial threats increase, America must create the manufacturing capabilities needed to secure our economic foundations and modernize our military.

**An innovative industrial base can only be accomplished through nationwide collaboration that fosters healthy, competitive technology ecosystems.**



### This is where the DoD MIIs come in...

The DoD MIIs are game-changing catalysts that serve as a connective tissue uniting innovative industrial ecosystems with emerging technology and market sectors in the U.S. Convening this network of visionaries enables DoD to connect with the ecosystem needed to bring new technologies to U.S. warfighters.

- **2,200+ members** from the defense industry, commercial manufacturers of all sizes, universities, community colleges, and state/local economic developers
- **1,800+ projects** advancing manufacturing technologies
- **700+ projects** furthering workforce development

## PARTNER UP TO ADVANCE YOUR MISSION

Each DoD MII creates a much-needed industrial commons that helps accelerate the delivery of promising technologies. These public-private partnerships are defense-relevant, industry-led, critical to our economy, and positioned to deliver value to you and our nation.



### HIGH VALUE COLLABORATIONS

- ✓ *Network with industry, academia, and government*
- ✓ *Roadmap future technologies and manufacturing requirements*
- ✓ *Access intellectual property*
- ✓ *Engage with new, diverse partners*
- ✓ *Learn about government requirements and future national need*



### IMPACTFUL RESEARCH & DEVELOPMENT

- ✓ *Join pre-competitive, Federally cost-shared projects*
- ✓ *Access state-of-the-art facilities and equipment*
- ✓ *Commercialize technologies from Federal labs and academia*
- ✓ *Reduce risk through pooled research and development*



### LIFE-CHANGING WORKFORCE DEVELOPMENT

- ✓ *Help design and execute education programs*
- ✓ *Participate in innovative apprenticeships*
- ✓ *Leverage training portals and job databases*
- ✓ *Inspire the next-generation of manufacturers and innovators*
- ✓ *Access the talent pipeline*

## Interested?

- 1) Use the back of this flyer to identify the institute and technology space best aligned to your office or program.
- 2) Visit their website to explore all the opportunities and resources available through the institute.
- 3) If you are interested in exploring opportunities to engage, email the point of contact on the back of this flyer.



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Office of the Secretary of Defense  
Under Secretary of Defense for Research and Engineering

For more information visit [www.DoDManTech.mil](http://www.DoDManTech.mil) | [www.ManufacturingUSA.com](http://www.ManufacturingUSA.com)

**America Makes: National Additive Manufacturing Innovation Institute**

Youngstown, OH | [www.americamakes.us](http://www.americamakes.us) | Established 2012  
America Makes strengthens U.S. capabilities in 3D printing and additive manufacturing  
CONNECT | Dawn Marzano: [dawn.marzano@ncdmm.org](mailto:dawn.marzano@ncdmm.org)

**Manufacturing x Digital: Digital Manufacturing and Cybersecurity Institute**

Chicago, IL | [www.mxdusa.org](http://www.mxdusa.org) | Established 2014  
MxD drives digital adoption in manufacturing to strengthen U.S. economic prosperity & national security  
CONNECT | [membership@mxdusa.org](mailto:membership@mxdusa.org)

**LIFT: National Advanced Materials Manufacturing Innovation Institute**

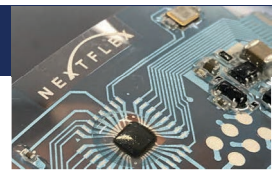
Detroit, MI | [lift.technology](http://lift.technology) | Established 2014  
LIFT connects materials, processes, systems, and talent  
CONNECT | [communications@almmii.org](mailto:communications@almmii.org)

**AIM Photonics: American Institute for Manufacturing Integrated Photonics**

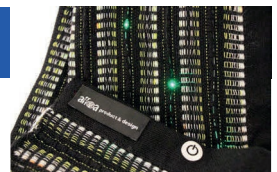
Albany & Rochester, NY | [www.aimphotonics.com](http://www.aimphotonics.com) | Established 2015  
AIM Photonics shapes development of the photonic integrated circuit industry  
CONNECT | Leah Scott: [LScott@ny-creates.org](mailto:LScott@ny-creates.org)

**NextFlex: America's Hybrid Electronics Institute**

San Jose, CA | [www.nextflex.us](http://www.nextflex.us) | Established 2015  
NextFlex innovates printed electronics manufacturing & advanced packaging solutions for hybrid electronic products  
CONNECT | Karen Savala: [ksavala@nextflex.us](mailto:ksavala@nextflex.us)

**AFFOA: Advanced Functional Fabrics of America**

Cambridge, MA | [www.AFFOA.org](http://www.AFFOA.org) | Established 2016  
AFFOA accelerates widespread commercialization of highly functional fibers and fabrics  
CONNECT | Natasha Spackey: [natasha@affoa.org](mailto:natasha@affoa.org)

**BioFabUSA: Advanced Regenerative Manufacturing Institute**

Manchester, NH | [armiusa.org](http://armiusa.org) | Established 2016  
BioFabUSA enables scalable, consistent, cost-effective manufacturing of cell-based therapies for the Warfighter  
CONNECT | [info@armiusa.org](mailto:info@armiusa.org)

**The ARM Institute: Advanced Robotics for Manufacturing**

Pittsburgh, PA | [www.arminstitute.org](http://www.arminstitute.org) | Established 2017  
The ARM Institute advances smart, collaborative robotics  
CONNECT | [membership@arminstitute.org](mailto:membership@arminstitute.org)

**BioMADE: Bioindustrial Manufacturing and Design Ecosystem**

Twin Cities, MN & Emeryville, CA | [www.biomade.org](http://www.biomade.org) | Established 2020  
BioMADE builds a sustainable, domestic end-to-end bioindustrial manufacturing ecosystem  
CONNECT | Christine Lee: [clee@biomade.org](mailto:clee@biomade.org)



Don't know where to start? Contact MicKenzie Frith, DoD MII Executive Secretary: [mickenzie.r.frith.ctr@mail.mil](mailto:mickenzie.r.frith.ctr@mail.mil)