The National Network for Manufacturing Innovation

An interagency team building partnerships with U.S. industry and academia
Manufacturing USA addresses national needs

President’s Council of Advisors on Science and Technology

Market Failure in Pre-Competitive Applied Manufacturing R&D

Manufacturing USA is broadly bi-partisan

Revitalize American Manufacturing & Innovation (RAMI) Act of 2014

Enacted into law: December 16, 2014
Applied Research + Education/Workforce Skills = Development of Future “Manufacturing Hubs”

- Federal funding is the catalyst to bring stakeholders into shared space to de-risk innovation.
- Focus is on industry-relevant problems impacting commercial production, MRL 4-7.
- Institutes must be self-sustaining after federal startup investment ends.
- Workforce training and development is an essential component in institute focus.

Progress to Date

- As of today, 14 institutes launched
  - $1B federal investment matched by over $2B non-federal
  - over 1,300 members, including
    - Two-thirds of Fortune 50 U.S. manufacturers
    - 8 out of the 10 top-ranked research and engineering universities
  - over 240 major technology development projects
Vision: U.S. global leadership in advanced manufacturing

Mission: Connecting people, ideas, and technology to solve industry-relevant advanced manufacturing challenges, thereby enhancing industrial competitiveness and economic growth, and strengthening our national security.

The four interrelated Manufacturing USA program goals – from the 2016-2019 Manufacturing USA Strategic Plan

| Goal 1: Increase Competitiveness |
| Goal 2: Facilitate Technology Transition |
| Goal 3: Accelerate the Manufacturing Workforce |
| Goal 4: Ensure Stable and Sustainable Infrastructure |

Participant members in Manufacturing USA Institutes

- **Digital Manufacturing & Design**
  - Chicago, IL
- **Sustainable Manufacturing**
  - Rochester, NY
- **Integrated Photonics**
  - Albany, NY
- **Advanced Fibers and Textiles**
  - Manchester, NH
- **Advanced Field-Programmable Gate Arrays (FPGA)**
  - Cambridge, MA
- **Flexible Hybrid Electronics**
  - San Jose, CA
- **Smart Sensors and Digital Process Control**
  - Los Angeles, CA
- **Lightweight Metals**
  - Detroit, MI
- **Additive Manufacturing**
  - Youngstown, OH
- **Advanced Composites**
  - Knoxville, TN
- **Advanced Robotics**
  - Pittsburgh, PA
- **Wide Bandgap Semiconductors**
  - Raleigh, NC
- **Modular Chemical Process Intensification**
  - New York, NY
- **Bio-pharmaceutical Manufacturing**
  - Newark, DE

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