



SLIDES ONLY
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May 30, 2017

Department of Defense
OFFICE OF PREPUBLICATION AND SECURITY REVIEW

# Workforce Development and the Manufacturing USA Institutes

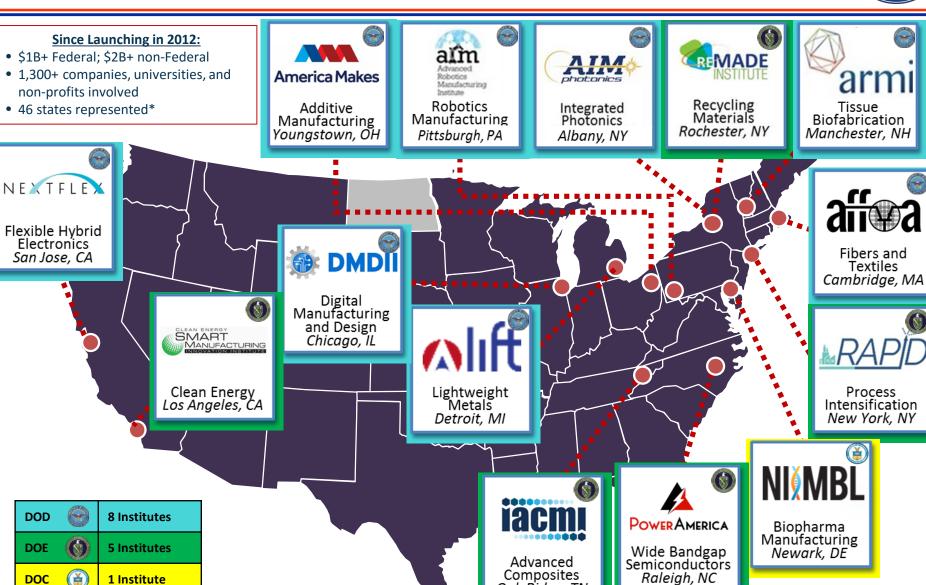
#### Brennan Grignon

Office of the Deputy Assistant Secretary of Defense for Manufacturing and Industrial Base Policy



#### The Network





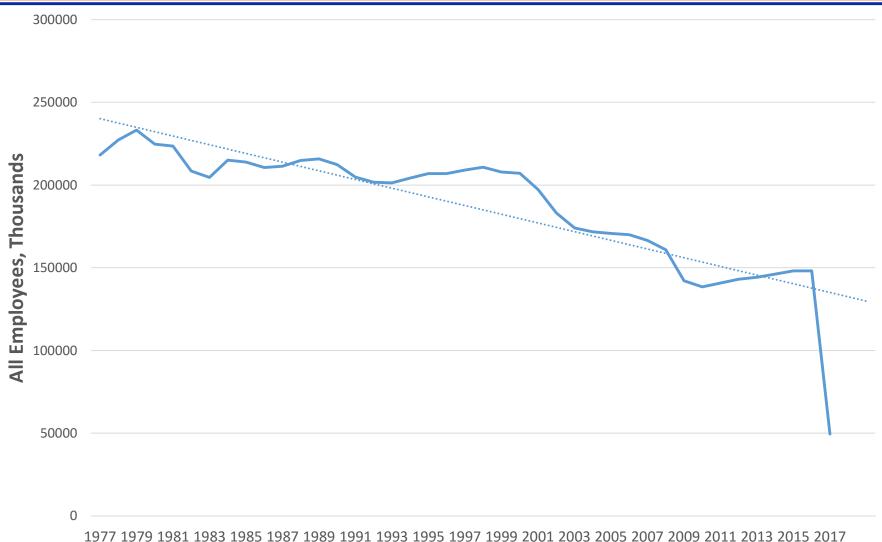
Oak Ridge, TN

https://www.manufacturusgush.on/astitutes



#### The Challenge



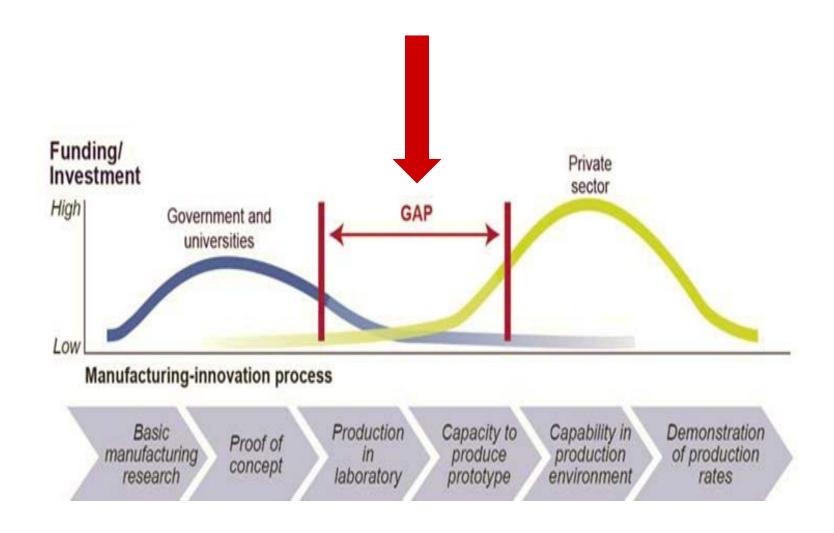


Year



#### The Challenge







# The Challenge

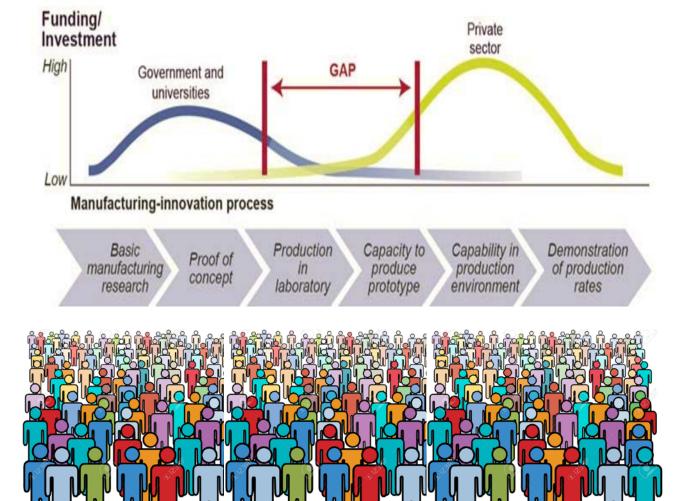






#### The Goal

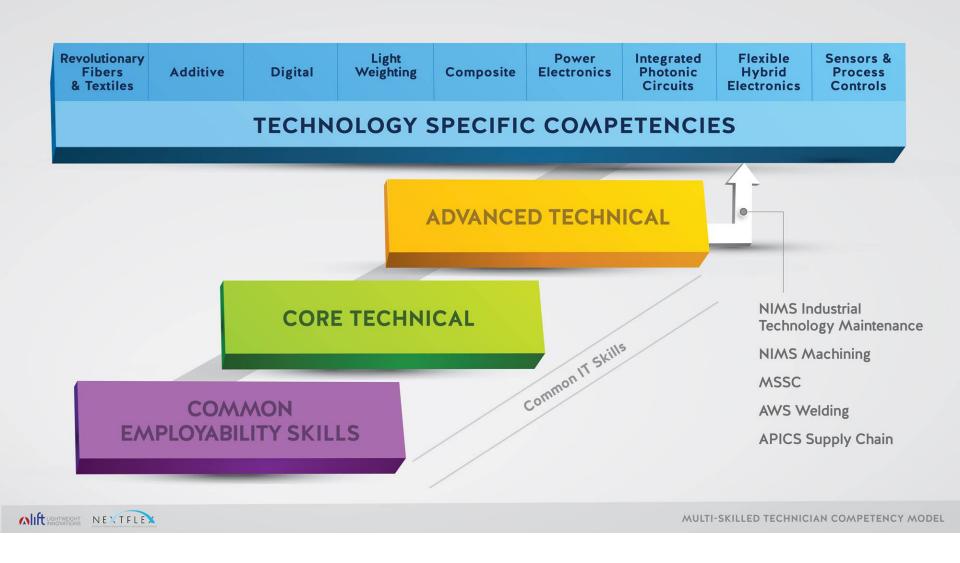






# Manufacturing Multi-Skilled Technician **Competency Model**







### Manufacturing Multi-Skilled Technician Manufacturing Multi-Skilled Technician **Competency Model**







# Manufacturing Multi-Skilled Technician **Competency Model**



#### **COMMON IT SKILLS**

**IT Support** 

Information Security

Programming, Development, Engineering

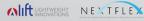
> **Software Testing** & Quality Assurance

Infrastructure Administration

Strategic Planning & Business Management

Information Management Analytics

#### **COMMON EMPLOYABILITY SKILLS** WORKPLACE **PERSONAL SKILLS SKILLS** Planning & Organization Integrity • Initiative Problem Solving • Decision Making Dependability **Business Fundamentals** Reliability • Adaptability **Customer Focus** Professionalism Working with Tools & Technology **APPLIED PEOPLE** KNOWLEDGE **SKILLS** Reading • Math Teamwork Writing • Science Communication Critical Thinking Respect Technology





# Manufacturing Multi-Skilled Technician USA\*\* **Competency Model**



CORE **TECHNICAL** 

Safety Measurement Quality Control Materials **Processes** Machine Tools

Production

**Packaging** Maintenance Electrical **Pneumatic** Hydraulic Machine Control High Vacuum Laser

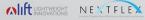




# Manufacturing Multi-Skilled Technician USA\*\* **Competency Model**



**ADVANCED TECHNICAL**  NIMS Industrial Technology Maintenance **NIMS Machining** MSSC **AWS Welding APICS Supply Chain** 





# Manufacturing Multi-Skilled Technician USA\*\* **Competency Model**



**TECHNOLOGY SPECIFIC** COMPETENCIES **Revolutionary Fibers & Textiles** 

Additive

Digital

**Light Weighting** 

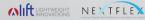
Composite

**Power Electronics** 

Integrated Photonic Circuits

Flexible Hybrid Electronics

Sensors & Process Controls





# Veteran Transition Programs





National Additive Manufacturing Innovation Institute







CERTIFICATION PROGRAM

17-S-1814



#### The Goal



