Manufacturing and The Future of Work

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Encourage Businesses to Invest in Human Capital

Advanced Manufacturing Has Arrived

Facilitate Education & Learning for the Individual

Industry + Workers + Government + Academia
ADVANCED MANUFACTURING
WHAT, WHY & HOW
Drivers of Advanced Manufacturing

**INCREASED DEMAND**
400K worldwide join the middle class each day*¹

**REDUCED SUPPLY**
2.4 Million US Jobs unfilled through 2028*²

**ADVANCED MANUFACTURING**
50% of manufacturing businesses have implemented automation*²

*¹Brookings Global Economy & Development Working Paper 100, February 2017
*²2018 Skills Gap in Manufacturing Study, Deloitte
Advanced Manufacturing Trends

Manufacturing x Construction

Manufacturing On Demand

Manufacturing-as-a Service

Machine Learning
Job Opportunities in Manufacturing

**Entry Level**
- Digital literacy in manufacturing
- Problem solving
- Innovation for mechanical engineers

**Associate**
- CAD collaboration
- Problem solving
- Innovation for mechanical engineers

- Advanced collaboration & problem solving
- Simulation/design skills
- Design & make management

**Expert**
- Expert collaboration, simulation & problem solving

**Secondary, technical school, community college**
**University, advanced degree, professional training**

**CAD Technician/CAD Designer**
- $30 - 60K

**Mechanical/Design Engineer**
- $107K

**Sr Mechanical Engineer**
- $150K
NEW EDUCATION & LEARNING INITIATIVES
What Can Government do?

- Make lifelong learning accessible and affordable
- Encourage employers to train workers
- Facilitate cross sector partnerships
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