THE INDUSTRY 4.0 WORKFORCE: NEEDS, ISSUES, AND SOLUTIONS JUNE 5, 2021



MODERATOR



Jay Douglass

Chief Operating Officer Advanced Robotics for Manufacturing (ARM) Institute





PANELISTS



Robin Fernkas

Deputy Administrator of the Office of Workforce Investment U.S. Department of Labor



Scott Lucas, Ph.D.

Vice President of Aviation, Manufacturing, and Institutional Effectiveness Wichita State University Campus of Applied Sciences and Technology (WSU Tech)



Lisa Masciantonio

Chief Workforce Officer Advanced Robotics for Manufacturing (ARM) Institute





BACKGROUND AND FOCUS ROBIN FERNKAS

The Department of Labor distributes over \$3 billion to states to operate workforce programs (FY 2020)

Decentralized system led by local business-led boards

Deliver workforce services through ~2,400 American Job Centers in communities nationwide

Dual-customer system serving both businesses and job seekers

Serves over 13 million job seekers





INDUSTRY 4.0 WORKFORCE CHALLENGES ROBIN FERNKAS

Assist employers in finding workers -- fill current demand and to build a pipeline of new workers

Address "skill gaps" or mismatches between open jobs and the skills of our workforce

Provide job training and reemployment assistance to the millions of unemployed due to the pandemic and shifts in the economy

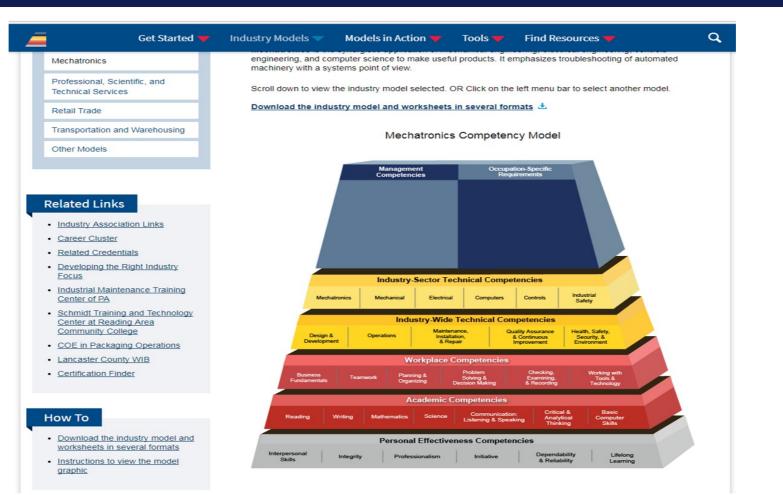
Help employers reskill or retrofit their incumbent workers to remain competitive in an automated workplace





INDUSTRY 4.0 WORKFORCE SOLUTIONS

WWW.CAREERONESTOP.ORG/COMPETENCYMODEL/COMPETENCY-MODELS/PYRAMID-HOME.ASPX



American Institute of Aeronautics and Astronautics Los Angeles - Las Vegas Section



INDUSTRY 4.0 WORKFORCE SOLUTIONS ROBIN FERNKAS

Career One-Stop Business Center is your source for help to hire, train, and retrain a strong workforce:

http://www.careeronestop.org/BusinessCenter/index.aspx_

American Job Center Locator provides contact information for the nearest American Job Center:

http://www.careeronestop.org/LocalHelp/local-help.aspx

You can also find a center by calling ETA's toll-free help line at 1-877-US-2JOBS (TTY: 1-877-889-5267).





BACKGROUND AND FOCUS SCOTT LUCAS

WSU Tech-Wichita-Aviation and Manufacturing

Two year, public technical college affiliated with Wichita State University

National Center for Aviation Training

Developed programs specific for the facility-Robotics and Industrial Automation

Great example of industry, education, and government working together

Partner with WSU's National Institute for Aviation Research (NIAR)

Provide stackable curriculum options up to AAS degrees with 3rd party credentials

Most NC3 Certifications of any single campus in the country

Most dual credit technical hours of any college in Kansas





INDUSTRY 4.0 WORKFORCE CHALLENGES SCOTT LUCAS

In education in our market, there are four questions that have posed our challenges

What's best for industry?

Know the market

Segment needs and supply chain needs

What's the best approach to instruction?

Faculty/Equipment/Method/Approach

What can we afford to do?

Public funding

Where are the students?

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INDUSTRY 4.0 WORKFORCE SOLUTIONS SCOTT LUCAS

What's best for industry?

ARM aided through a Research project that we spent time with over 60 companies

What's the best approach to instruction?

Ramifications of the Pandemic

What can we afford to do?

We have to invest in the future to support where we think industry will go

Where are the students?

High Schools

Applied Learning models





BACKGROUND AND FOCUS LISA MASCIANTONIO

Chief Workforce Officer - The Advanced Robotics for Manufacturing Institute (ARM)

The ARM Institute is a Manufacturing USA® Institute

Strengthening U.S. manufacturing through innovations in robotics and workforce development

Keeping the manufacturing workforce on pace with the technological

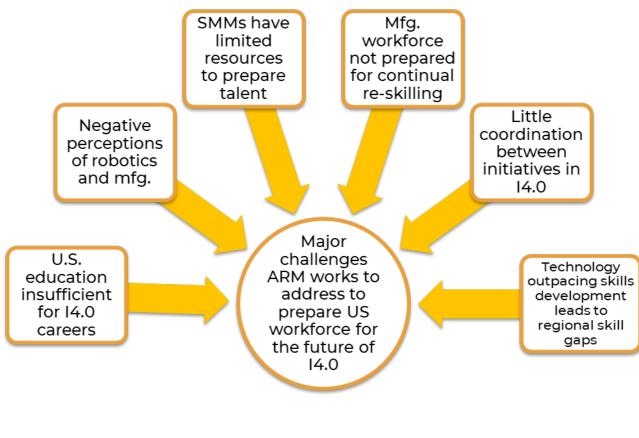
Manufacturing careers no longer look they once did

With Industry 4.0, we need to focus on the fact that manufacturing careers are now a life-long learning journey and the skills will continually adapt to the technical changes





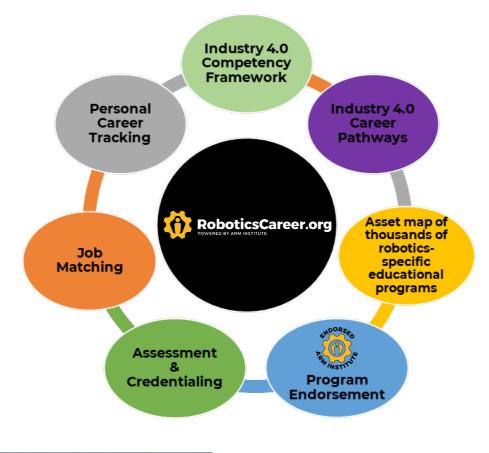
INDUSTRY 4.0 WORKFORCE CHALLENGES LISA MASCIANTONIO







INDUSTRY 4.0 WORKFORCE SOLUTIONS LISA MASCIANTONIO



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PANEL DISCUSSION



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AUDIENCE QUESTIONS

THANK YOU!

