

"Transform the global workforce one life at a time."

Jason Everett Market Development Manager jeverett@amatrol.com

Smart Factory Believers impacts over 10,000 students in the US

Smart Factory Believers is a global Deloitte purpose program with a mission to empower STEM education opportunities in underrepresented and underserved communities today and inspire the manufacturing workforce of tomorrow.

How we do it: We close STEM equity gaps by donating robotics kits, resources and skills training needed to design, code and build for the future.





2,250+ Robotics kits donated 10,190+ Students and educators impacted

IMPACT X EMPOWER X INSPIRE X BUILD SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS (STEM)

Deloitte sponsors Detroitbased team to compete at FIRST World Robotics Championship

In January 2023, Wayne-Westland, a Detroit-based school district, did not have a robotics team. They were one of the first schools to receive Smart Rover kits through the Smart Factory Believers program that founded a robotics club.

Just five months later, this rookie team competed and won District and State robotics competitions to later earn a spot to compete in the FIRST World Robotics Championship, where they placed within their division and received a Safety Award from a peer team.









Ready to become a Believer?



Scan to visit The Smart Factory website thesmartfactory.io

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All professionals are members of Deloitte Consulting LLP unless otherwise noted.

THE SMART FACTORY by Deloitte

FESTO

Life Long Learning Addressing the needs for a qualified workforce







Steve Lehr Director of Business Development Festo Steve.lehr@festo.com 512-365-4337



Equity Gap

Socioeconomic barriers limiting opportunities and access needed to acquire relevant skills and training.

Perception Gap = Skills Gap

Creates a shortage of qualified candidates for specific occupations and industries hindering economic growth and productivity due to unfulfilled workforce needs.

Negative biases and stereotypes reduce the pool of individuals interested in pursuing CTE Careers.

Capacity Gap

Limited funding, inadequate facilities, and shortage of qualified instructors limit education opportunities for students, communities and industry.

FESTO

Lifelong Learning

The journey to a successful career path

Explore through STEM

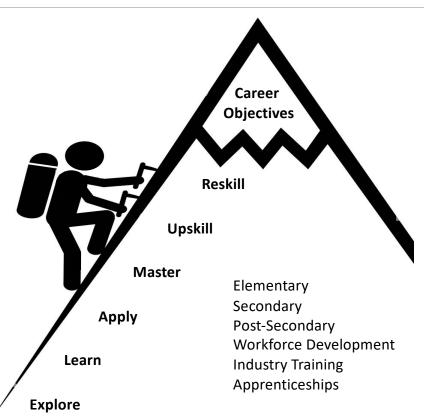
Learn through Core Competencies

Apply Competencies

Master Applications

Upskill to latest technologies

Reskill to stay relevant



FESTO

Thank you!

Steve Lehr Director of Business Development Festo 512-365-4337 Steve.lehr@festo.com





ACE AMERICA'S CUTTING EDGE

Revitalizing American Manufacturing

- In 2020, DoD established a national testbed for ACE for research, technology advancement, training and workforce development
- Combines scientific expertise of Oak Ridge National Laboratory, the research and teaching expertise of The University of Tennessee, Knoxville, and the workforce development leadership of IACMI

TENNESSEE COMPOSITES iacm Machine Tool Research Center and Fibers and South Stational Laboratory Composites Manufacturing Facility 🕊 ОАК National ACE IDGE Testbed National Laboratory CAK RIDGE iacmi **Conducts research to:** Increase efficiency of existing TENNESSEE machine tools PELLISSIPPI STATE Develop skills & training for next OMMUNITY COLLEGI generation machine tools for composites and metals Establish tools to rapidly train the

next generation of machine tool designers and operators



Revitalizing American Manufacturing

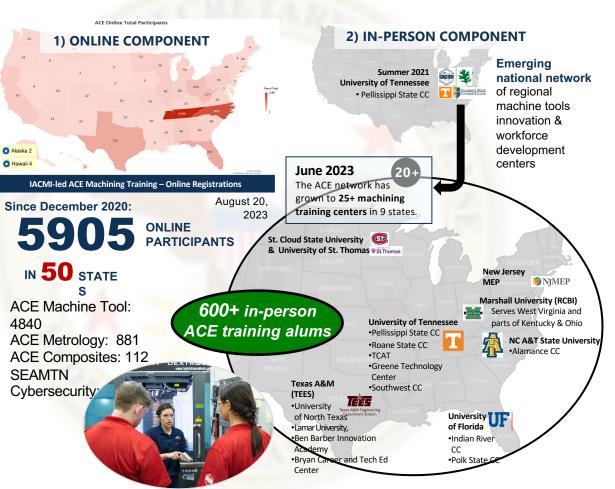
ADONIS Illinois





California

CHRIS



9

Advanced Manufacturing for Education

INDUSTRY 4

Graham Celine **VP** Marketing













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CECERTRALINA CO.



CVRERSECURIT

AUTOMATION

CLOUD COMPUTING

RUBUTICS



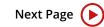
As of June, there's a shortage of almost

600,000 stable manufacturing jobs

waiting to be filled in manufacturing businesses nationwide

Forbes

https://www.forbes.com/sites/forbesbusinesscouncil/2023/08/25/worker-shortage-overcoming-workforce-challenges-in-manufacturing/?sh=6305a2f7250b



Jobs are Tied to Logistics and Advanced Manufacturing

- Smart "Industry 4.0" processes are prevalent in industry
- Huge demand for qualified, skilled, technicians for warehouse& plant operations
 - Maintenance technicians
 - Operators
 - Programmers
- Smart 4.0 training solutions need to address this

Harrisburg University of Science and Technology OpenMES system

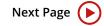
GCCC



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SMC International Training NCATC 35



Industry Partners in Training

- Boeing
- Intel
- Tyson Foods
- Nissan
- Honda NA
- KIA Motors
- Johnson & Johnson



MANUFACTURING IMPERATIVE

WORKFORCE PIPELINE Challenge

Finding innovative and bold solutions for an industry and nation at risk





MANUFACTURING IMPERATIVE

WORKFORCE PIPELINE Challenge

OUR VISION

Engage colleges to develop sector strategies that formulate innovative and bold solutions for an industry and nation at risk to:

- Connect those in our communities to industry aligned skills
- Innovate and accelerate education and training to meet demand
- Fill family-sustaining jobs that lead to careers in manufacturing that are currently unfilled, and predicted to remain unfilled

THE CHALLENGE

Each of our partner schools reaching enrollment goals of **1,000 new individuals per year.**





GOALS & OBJECTIVES



OUR GOAL

- Sharing of best practices for program recruitment, design, retention, and placement that lead to living-waged careers
- Uncovering new insights on training, content, and programmatic gaps to mitigate current barriers
- Increasing pipeline development through net new programming serving previously unmet needs
- Development of policy recommendations and funding models to drive pipeline development
- Development of case studies, white papers, and blogs for national adoption and replication
- Leveraging muscle, might and experience to change the future of workforce development



MANUFACTURING IMPERATIVE

WORKFORCE PIPELINE Challenge

PARTNER COLLEGES





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WORKFORCE PIPELINE CHALLENGE