



HOW IT STARTED...







Workforce Development

30-Day Report

July 2018

CONTENTS

Introduction
Portfolio Vision
Listening Tour
Pilot Programs
Next Steps

Appendix: References



Workforce Development

PREPARING

Career Tech + Higher Ed



UP-SKILLING

Incumbent + Re-Entry



ENGAGING

Pre-K to 12

Problem-Based Learning

K-12 Design Challenge PreK-12 Classroom Visits STEM Community Outreach



Work-Based Learning

On-Campus Events
Internships



Industry Credentials

Automotive Technicians Commercial Drivers Engineers + Analysts

Version: 10



HOW IT'S GOING...











Air Mobility

Learn about the design, functionality, and impact of vertiports on air mobility and logistics.



Automated Vehicles

Examine the development, benefits, and ethical considerations of self-driving vehicles in today's society.



Campus Collection



In Classroom

Comprehensive lesson plans, slide decks, and teacher notes on drones, EVs, connected, and automated vehicles.



Beyond Class

Immersive learning experiences and challenges for students and professors on advanced mobility technologies.



Research & Development

Explore and apply for ODOT STAR program grants focused on pioneering research in advanced mobility.

Coming soon in 2025







10,000 NEW JOBS (and counting...)









2,200 new jobs



HONDA





LGESHonda.com/careers

Operators

This is an accessible position with lots of room to learn and grow. High school diploma, GED or equivalent experience desired.

Technicians

This is a mid-level role with opportunities to learn more advanced skills. Associate degree or related experience in engineering technology, advanced manufacturing or similar field desired.

Engineers & Support (HR, Finance, Supply Chain, Facilities, etc.)

These positions require specific advanced experience and skill level dependent on area of interest. Bachelor's or master's degree in engineering or related field desired.







Union, Selby, and Logan Counties:

\$700 million

Honda's retooling of existing plants for EV

production

GM's EV propulsion units in Toledo

Lucas County:

\$760 million

Lorain County:

\$1.5 billion

Ford's new EV manufacturing plant

1,800

327 new jobs

Trumbull County:

\$100+ million

Foxconn manufacturing multiple EVs

\$2 billion

GM and LG Chem built Ultium Cells battery plant

Tuscarawas County:

\$40 million

Battle Motor's expansion and addition of an EV line

434 new jobs

Shelby County:

\$915 million

SEMCORP building new facility to manufacture a key component of lithiumion batteries

1,200

Montgomery County:

\$477 million

Joby Aviation to build electric air taxi manufacturing facility at Dayton International Airport

2,000

Fayette County:

\$3.5 billion

Honda and LG Energy Solution to build battery plant

2,200

Fairfield County:

\$75 million

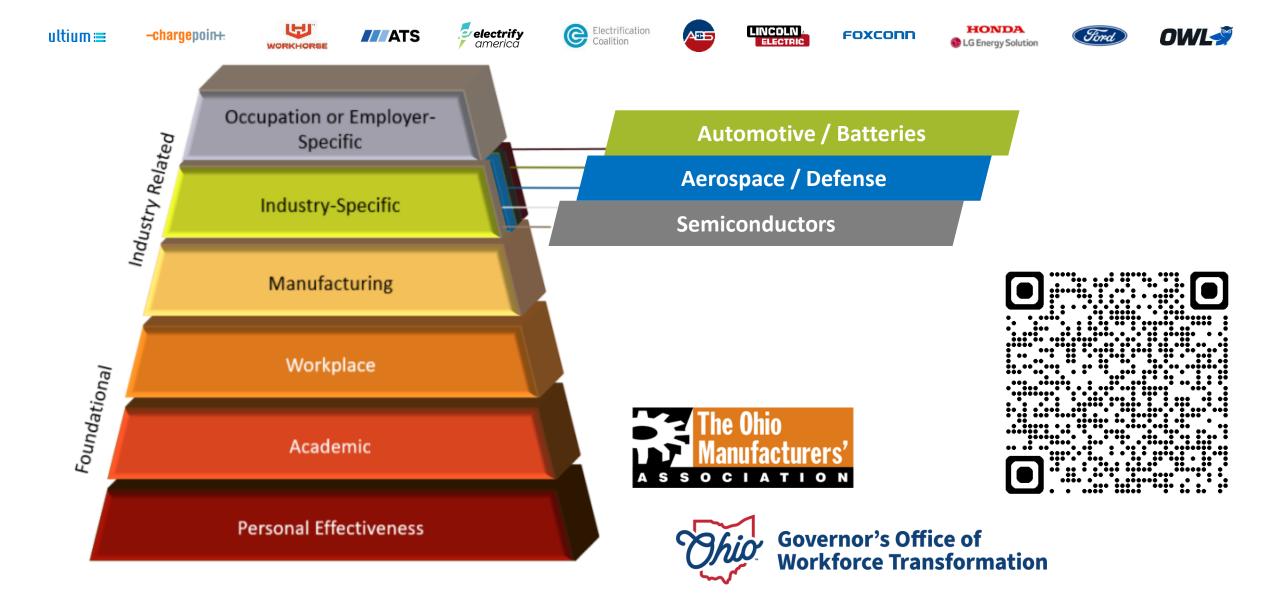
Cirba Solutions to expand EV battery recycling facility

150 new jobs





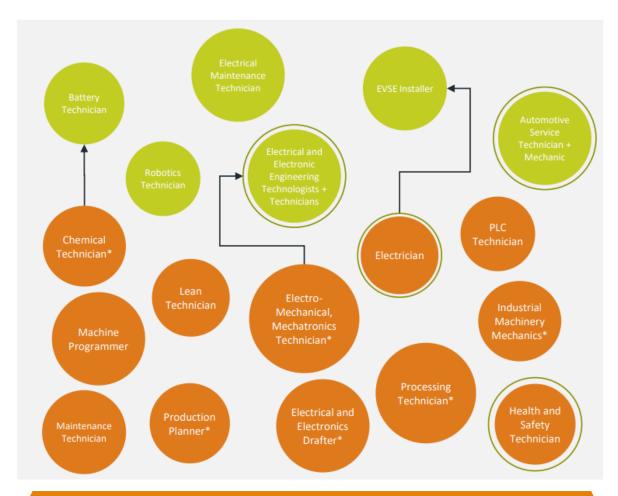
OHIO MANUFACTURING COMPETENCY MODEL



MANUFACTURING JOBS







OPERATORS

TECHNICIANS



PREPARING OHIO'S EMERGING WORKFORCE













Drones & Air Mobility







Flying into the Future: Classroom Presentation

EXPLORE THE FUTURE OF FLIGHT. Discover breakthroughs in air mobility and cuttingedge drone technology.



Discover the myriad of career opportunities in this rapidly evolving, diverse and growing industry.

Find Credentials & Career Ideas





After School & Summer Toolkit



Cardboard Vertiport Challenge

WHERE IMAGINATION TAKES FLIGHT. Handson curriculum guiding students to create "drone airports" and code test flights.



Smart City Adventure

CUTTING EDGE TECH AS A CAREER PATH. Interactive STEM learning for an inside look at the technology behind electric vehicles, drones, delivery robots, and more!



Test Track Construction and Pavement Marking

TRANSPORTATION IS TRANSFORMING, Explore the landscape of smart vehicles and techequipped roads with this hands-on project from University of Cincinnati.



Traffic Light Simulation

THE INTERSECTION OF SAFETY AND TECH. Learn about traffic signals and intersection safety with this interactive activity from University of Cincinnati.



Portable Innovation Labs

transportation and smart mobility.

LEGO Education

Free STEM equipment and curriculum, providing afterschool and summer programs with resources they may not be able to

A collection of LEGO Education resources specific to innovative



FAA Airport Design Challenge

complete design tasks in Minecraft.

Ohio Afterschool Network

An interactive K-12 learning opportunity where small teams of students work together to learn about their local airport and

STEM resources, toolkits, events, and initiatives including Moonshot Ohio that support afterschool and summer programs

purchase on their own.



Cuyahoga County Public Library







NASA Advanced Air Mobility Toolkit

The Advanced Air Mobility STEM Toolkit provides educators and students with cross-curricular content related to NASA's work with air taxis and drones.













Connected & Automated Vehicle Education









TOOLKIT TUESDAY

Bite-Sized Learning for Busy Educators

15 webinars 750+ registrations





- 6

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11

Career Awareness

Career Exploration

Career Planning

Industry-Recognized Credentials

education.ohio.gov

Engineering



Transportation







6 points







Auto & Advanced Mobility Program Design Guide







6 points each

Portable Innovation Labs

#ThisIsPAST

































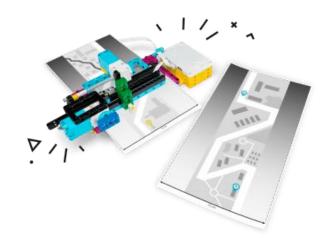


education education

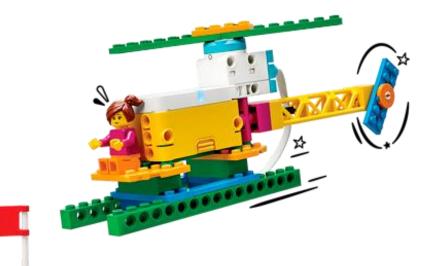
Exploring Innovative Transportation

LEGO® Education SPIKE™ Essential Lesson Recommendations













Cuyahoga County **Public** Library

















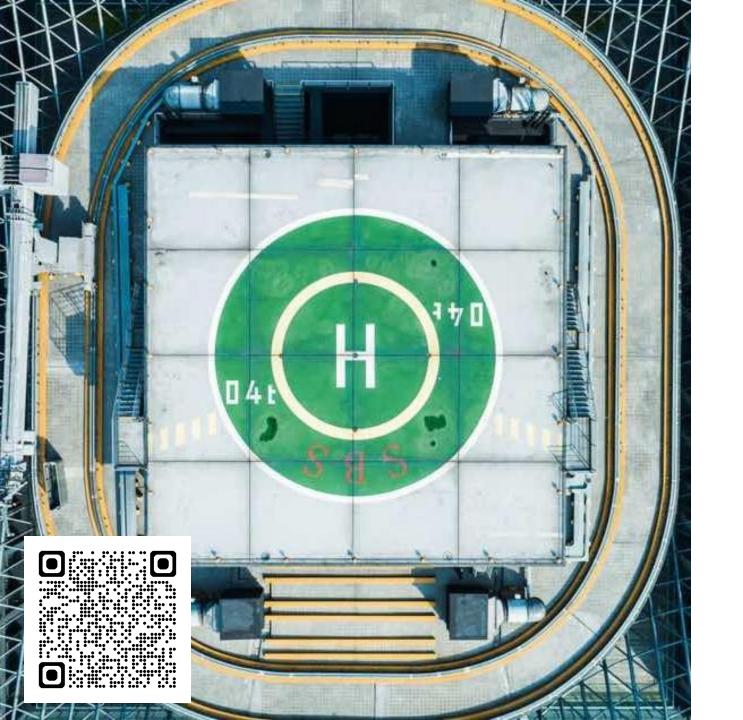






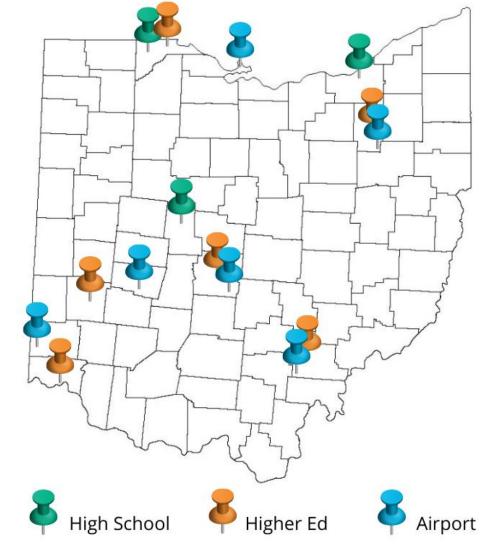


FAA.gov/ADC





Vertiport Innovation Challenge

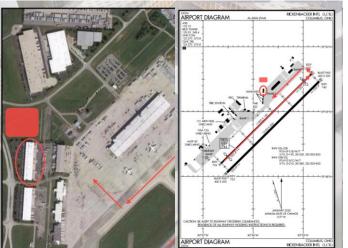






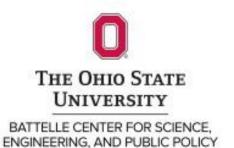












Rapid Innovation for Public Impact

The Ultimate Experiential Learning









Introducing: FlyOhio Connect











Ohio's skies open.





WHAT'S NEXT IN 2025-26...





Ohio STEM Learning Network | Statewide Design Challenge



47,470 students participated in the 2023-2024 design challenge



with 156 educators

in all 7
JobsOhio regions



Sign up today!

























Campus Collection

Work-Based Learning Starter Topics







Air Mobility: Vertiport Challenge Automated Vehicles: Route Planning

Automated Vehicles: Data Analysis





TOOLKIT TUESDAY

Bite-Sized Learning for Busy Educators



Tuesday Apr 29
3:30PM ET

FLYING DRONES WITH THE COSI SCIENCE FESTIVAL





Tuesday May 13
3:30PM ET

LAUNCHING INTO SUMMER WITH TECH TALENT PIPELINE







DriveOhio Educator Toolkit Survey



Click here to complete our Toolkit Survey!

