

# National Science Foundation (NSF) Advanced Technology Education (ATE) Manufacturing Experiential Advancement Readiness Network Project (1800612) PROJECT SUMMARY

**Total Award \$549,730**

**Project Period: 10/1/2018 to 9/30/2021**

Columbus State Community College (CSCC), in collaboration with Lorain County Community College (LCCC), and industry, state, and education partners will advance experiential work-based learning programming and outreach in order to increase the supply of qualified advanced manufacturing technicians. The goal of the proposed ATE project is to increase the supply of qualified advanced manufacturing technicians by creating new opportunities for work-based learning and concurrent streamlining of outreach to students through a collaborative, structured statewide network. The project will improve and expand upon Columbus State's Modern Manufacturing Work Study program (developed under NSF-ATE Award ID: 1400354) and Lorain County Community College's TRAIN OH Earn & Learn model.

Project success depends on collaboration between the education and business community. The three major objectives include:

AUDIENCE	OBJECTIVE
<b>Educators</b>	Develop a statewide earn and learn model education pathway from high schools to community colleges to 4-year partners and employable exit points into in-demand manufacturing careers.
<b>Students</b>	Develop and implement an outreach effort to provide high school students with the opportunity to explore the variety of careers associated with advanced manufacturing leading to earning degrees and industry recognized certifications.
<b>Industry</b>	To disseminate and expand experiential learning opportunities in the state by benchmarking best practices and collaboration with industry.

## Four major deliverables will be produced:

1. A work-based learning menu and symposium event
2. A statewide network for sharing best practices
3. Creation of an industry leadership team
4. Outreach and recruitment strategy for community colleges to increase the pipeline of students entering manufacturing pathways

## Project Leadership:

### Mark Gerko

Chair, Engineering and Transportation Technology  
Columbus State Community College  
mgerko@csc.edu

### Ronald (Scott) Zitek

Assistant Professor, Automation Engineering Technology  
Lorain County Community College  
rzitek@lorainccc.edu