

# Improving Mechatronics Technician Training for the Advanced Manufacturing Industry



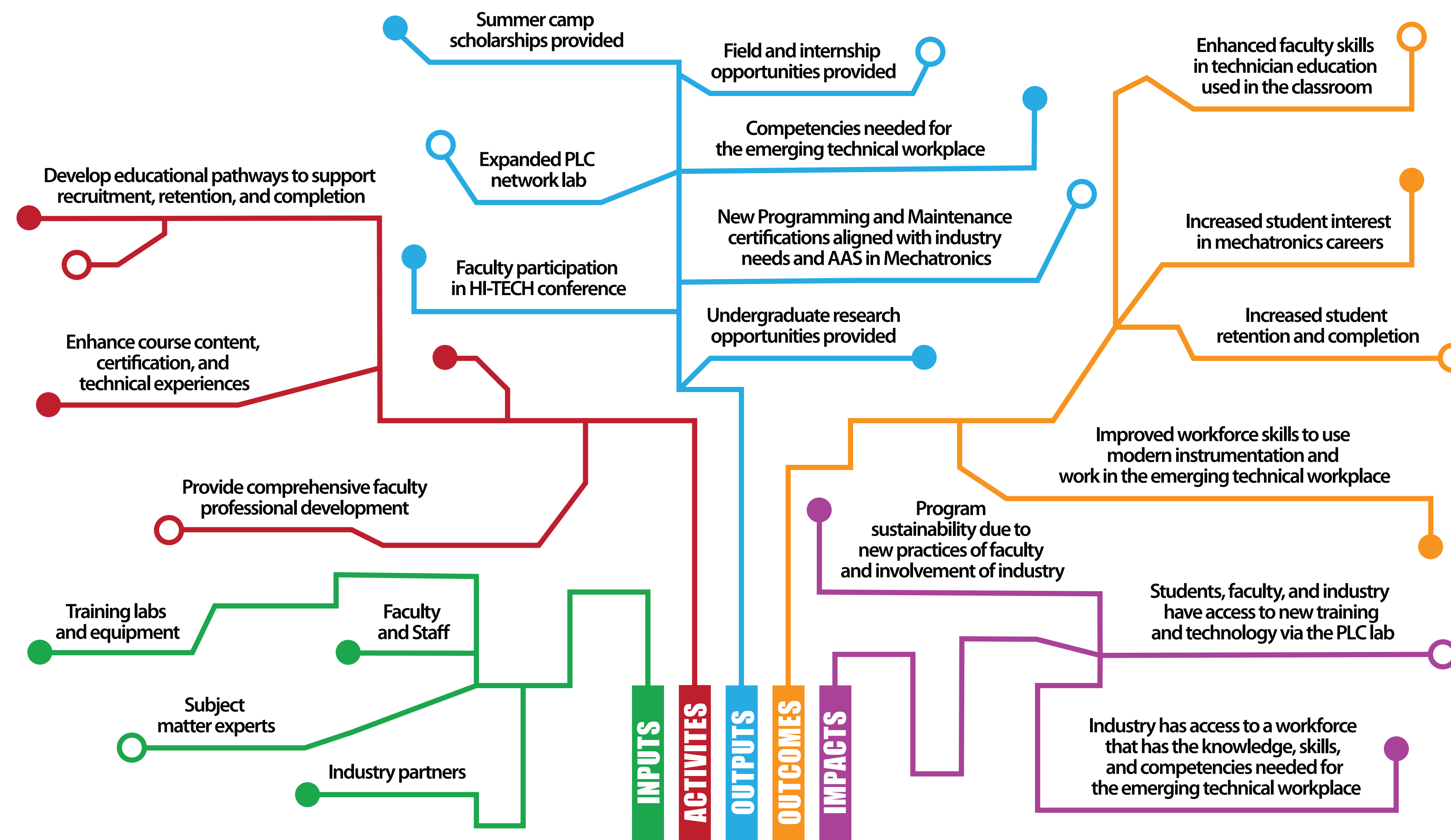
## Grant Activities

Co-PI Murphy certified as a Rockwell Automation Certification Trainer

- First four students earned RA Maintainer Certification during pandemic shutdown
- Year 2 trainer equipment purchase complete
- Lab Tech hired despite state hiring freeze



## Logic Model



## Collaborations/Partnerships

**Local industry advisory board partners:** Several local advanced manufacturing companies sent employees to join the advisory board and/or collaborate on integrating the Mechatronics lab equipment into a cohesive mock production line in February. The companies will donate employees' time and peripherals to complete the setup. Students in other courses in the program will create "widgets" for the automated production line to handle.

**Central Piedmont Community College (CPCC) and the Center for Advanced Automotive Technology (CAAT):** came to CVCC to participate in first board meeting and advise on the industry collaboration and additional resources to aid the lab setup.



## Project Goals

Increase the rigor and competencies of manufacturing technician students in mechatronics using industry certification training equipment and updated course material taught by industry-certified teachers.

Increase community awareness of the job descriptions and career opportunities for Mechatronics Technicians.

## Project Objectives

AMP will support mechatronics technician training for the growing advanced manufacturing industry in Central Virginia by:

1. Enhancing course content and technical experiences using Rockwell Automation Certification Trainers.
2. Providing comprehensive professional development to technician educators
3. Developing educational pathways to support student recruitment, retention, and completion.

Students include a wide age range, from recently-graduated high school students to medium and long-term employees receiving further training. Community awareness building will begin with summer camps for middle-school aged students.