



# Innovations in Advanced Machining Technician Education

BRIDGERLAND  
TECHNICAL COLLEGE

## BACKGROUND

A critical shortage in skilled machining technicians exists across the nation. The IAMTE project aims to increase the quality, capacity, and number of the next generation of skilled machinists in the Bear River Region through a new streamlined Machining Technology certificate. The project aligns Bridgerland Technical College's Machining Technology program with local industry needs and delivers training in innovative advanced manufacturing technologies, such as 5-axis Computer Numerical Control (CNC) machines, programmable Coordinate Measuring Machines (CMM), and robotics.

### FUNDER:

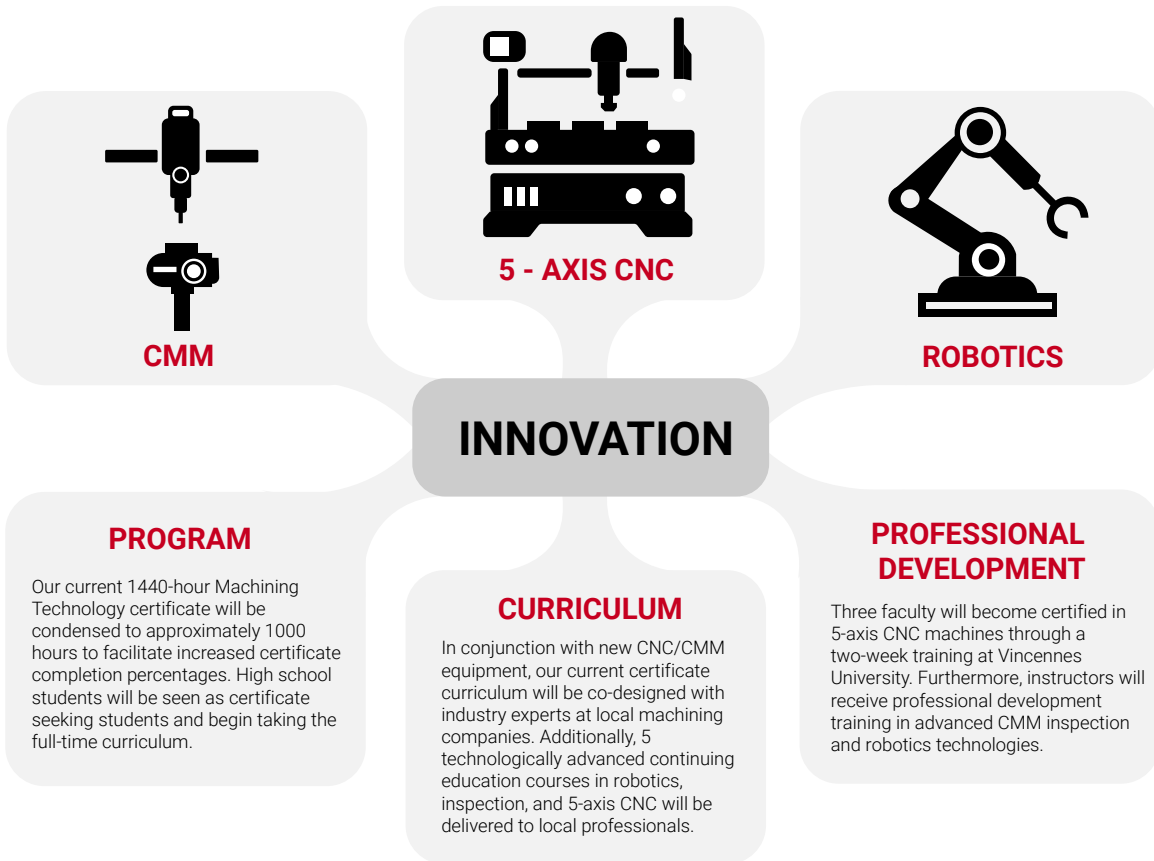
National Science Foundation  
*Advanced Technological Program*

### TIMEFRAME:

2020-2023  
3 year grant

### AWARD AMOUNT:

\$499,695



## KEY EARLY SUCCESSES

In the first 6 months of the grant, the machining program has:

- streamlined the machining certificate by almost 400 required instructional hours.
- acquired and installed two 5-axis CNCs and two CMMs.
- engaged in over 300 hours of advanced industry training in 5-axis CNC, CMM, and robotics.



This project is supported by the National Science Foundation under Grant No. 2000786. Any opinions, findings, and conclusions or recommendations expressed on this site are those of the authors and do not necessarily reflect the views of the National Science Foundation.