## NSF ATE panel Pro-Mat Educator Symposium

#### **Presented by**

Doug Pauley
Associate Dean of Training and Development
Central Community College-Columbus, NE
dpauley@cccneb.edu





## **Mechatronics Education Center**

- 2001 Met with Festo Corporation
- 2002 Brainstorming meetings -- Columbus, NE / Germany / Hauppauge, NY
- 2003 Mechatronics Education Center concept Commissioner of Labor
- 2004 Festo Corporation
- Nebraska Workforce Development
- Nebraska Department of Economic Development
- Nebraska Department of Education
- Nebraska Community Colleges
- Business and Industry
- Nebraska High Schools
- DEC 2004 Awarded \$1.64 million grant from US DOL
- Federal Grant: Department of Labor
- Funding period is Dec. 2004 Dec. 2008

**Three** Components of the Mechatronics Education Center

- 1. Short-Term Technical Training
- 2. AAS degree in Mechatronics/Industrial Technology
- 3. Professional Development & Outreach





## Project SHINE: Shaping High-Quality Integrated Nebraska Education

Awarded **\$870,156** from the NSF Funding period October 2009 to October 2013

**Goal:** To engage secondary and college faculty in collaborative relationships with business and industry leading to experiential, problem-based learning, ultimately increasing student participation and success entering high demand technical careers.

## Project MwlC Goal:

Awarded \$893,698 from the NSF Funding period September/2016 to September 2020

To increase the number of qualified Process Instrumentation and Control technicians to meet current and future workforce demands in Nebraska by developing a new pathway within an existing Mechatronics program and deploying innovative recruiting, outreach, retention, and completion strategies.

### Project Mechatronics with Instrumentation and Controls (MwIC)













# MECHATRONICS with Instrumentation and Controls



#### PROGRAM GOALS:

- Increase the number of skilled technicians in Nebraska
- Develop a state-of-the-art Instrumentation lab and curriculum
- Establish a Business and Industry Leadership Team to guide program
- Create awareness of Instrumentation pathways and careers
- Increase enrollment and retention of mechatronic students
- Create student scholarship opportunities
- Host professional development opportunities for educators

Affirmative Action/Equal Opportunity Institution



