

Summer Working Connections Introduction to Mechatronics

Professional Development Opportunity for Teachers
ALL EXPENSES PAID!!!

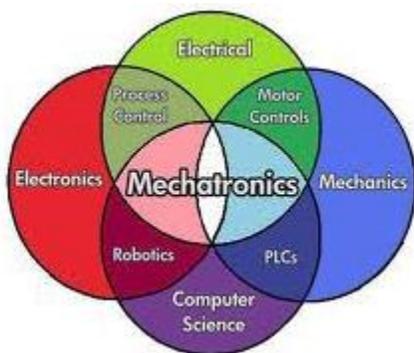
The National Science Foundation funded *CollaborATE* project is a partnership of Anne Arundel Community College (Maryland), College of Lake County (Illinois) and Florida State College at Jacksonville (Florida). The objective of *CollaborATE* is to widen the exposure of mechatronics careers and training programs to high school and college students.

A key element of *CollaborATE* is Summer Working Connections (SWC), a weeklong training to be held in July 2019 for high school technology and pre-engineering teachers. This training will provide hands-on activities in mechatronics concepts including basic electrical theory, programmable logic controllers (PLCs), and pneumatics.



WHAT IS MECHATRONICS?

Mechatronics is a multidisciplinary field combining the technology integration of mechanical systems, electronic systems, electrical systems, and computers.



Experts suggest that there will be a shortage of qualified workers for high-tech skilled manufacturing positions. Mechatronics is a high-paying career field that is portable to all parts of the United States.

Graduates of community college mechatronics technology programs report starting salaries ranging from \$37,400 to \$62,400.

SUMMER WORKING CONNECTIONS OBJECTIVES

High school teachers play an essential role in creating a recruitment pipeline for college mechatronics programs. Introducing students to mechatronics-related topics early in high school will increase student interest in this career pathway.

Summer Working Connections participants will:

- Experience a week of hands-on project-based learning about mechatronic systems and components.
- Apply mechatronics concepts to real-world systems and components such as PLCs, pneumatic systems, and electric motors.
- Visit a manufacturing facility to highlight the close relationship between training tools and real-world mechatronic systems.
- Exchange curriculum ideas with other participants to develop mechatronics lessons into courses currently taught.



SUMMER WORKING CONNECTIONS DETAILS

Dates: Monday, July 8, 2019 through Friday, July 12, 2019
Location: Florida State College – Jacksonville, Jacksonville, Florida
Compensation: Travel, lodging, food expenses paid
PLUS \$500 stipend awarded for successful completion

Prof Development Credit: 4.0 CEUs

How to Apply: Submit (See application for more detailed application instructions):

- Completed SWC application
- Letter of recommendation from principal or supervisor

Application DUE DATE May 3, 2019: Applications will be reviewed and acceptance notices sent on a first-come/first served basis. If you need an application, email Gary L. Morgan at gmorgan@clcollinois.edu.

