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.

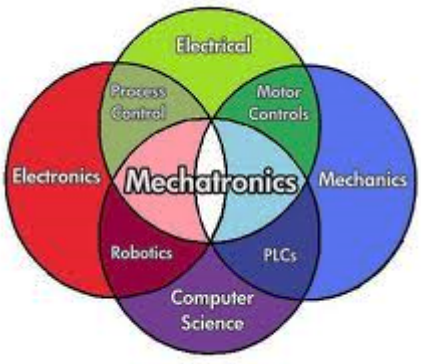
College Lake County

ANNE ARUNDEL COMMUNITY COLLEGE

FLORIDA STATE COLLEGE at Jacksonville

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

How to Apply: **Request application from Alan Zube (alan.zube@fscj.edu)**
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.

Summer Working Connections (SWC) is a professional development component of the National Science Foundation-funded project: *CollaborATE*, Advanced Technological Education (ATE) program. Grant number: 1601172.

NSF