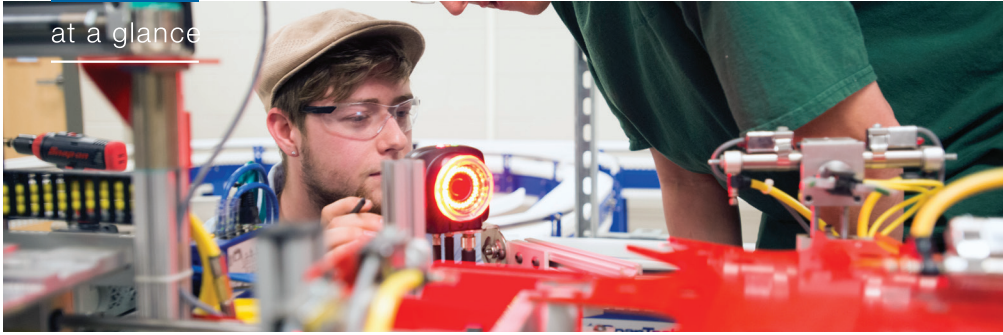


at a glance



Automation and Instrumentation Technologies

Department: Industrial Technologies

Degree: Associate of Applied Science

Entry time: Fall

Length: 2 years (4 semesters and 1 summer)

- **Kibbie Grant:** Students in this program may be eligible to have half their tuition paid for by the Kibbie Grant. Go to www.kirkwood.edu/Kibbie for more details.
- A significant **hands-on** component featuring **lab experiences** using **state-of-the-art equipment** and **cutting-edge simulation software**.
- Equipment spread across **five lab spaces**, including **two program-specific lab spaces**.
- A high level of **industry involvement** ensures curriculum relevance and ensures content alignment.
- All program **faculty** have significant industry experience to share with their students.
- A broad offering of **industry-specific software** and **hardware** helps prepare students for a broad range of careers.
- **Small class sizes** for program-specific courses allow the instructors to focus on individual **student success**.
- An average of seven employers participate in **internship opportunities** for students each year.

Program Description

The Kirkwood Automation and Instrumentation Technologies program prepares students for a broad range of careers in the industrial automation and process control sectors of industry using industry-guided curriculum combined with practical hands-on labs.

Graduates of this program will be exposed to and have experience with a broad, yet industry-specific, range of technologies and processes. This ensures students are well-rounded technically, and will have the foundational knowledge and versatile skill set necessary to continue to learn and succeed in industry today.

Career Opportunities

Controls technician
Electrical and instrumentation (E&I) technician
Process technician
Programmer
Systems integrator
Electro-mechanical technician
Application engineer

Sample Classes

Electrical Theory, Measurements and Circuits
National Electrical Code
Mechanical Drive Systems I
Industrial Control Circuits I
Fundamentals of Hydraulic and Pneumatic Systems
Introduction to Programmable Logic Controllers
Introduction to Visualization
PAC Programming and Control II
Mechatronics I
Instruments and Control Devices
Process Control I

Industry Endorsements Earned:

OSHA 10-Hour General Industry; 50+ High Voltage Arc Flash; Residential Voltage Arc Flash; Rigging, Lifting and Cribbing; JSEA-Job Safety and Environmental Analysis; Adult First Aid with CPR; Forklift Class 1, 3, 4, 5, 7; Snap-On Torque Certification; ISA CST Associate Recognition; National Career Readiness Certificate.

Scholarships

Kirkwood will help you pay for college! Kirkwood awards more scholarships than any other community college in Iowa. For more information and to apply, visit www.kirkwood.edu/scholarships.

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