

CONTACT

For more information about the Industrial Electricity and Electronics Program at Kellogg Community College, please contact:

Kevin Barnes, Electricity and Electronics
Program Instructor
Kellogg Community College
Regional Manufacturing Technology Center
405 Hill Brady Road
Battle Creek, MI 49037

PHONE 269.965.4137

FAX 269.962.7370

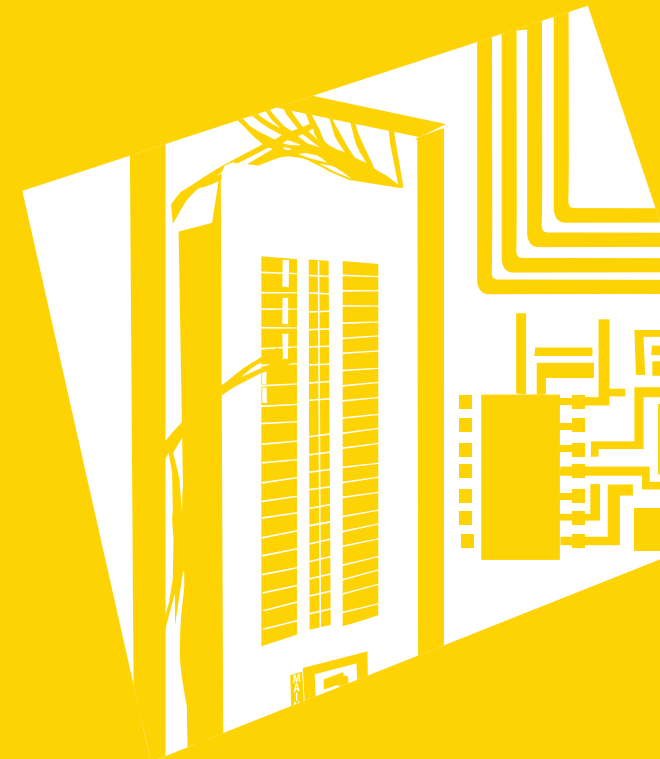
E-MAIL barnesk@kellogg.edu

WEB www.kellogg.edu/rmtc

Kellogg Community College is an equal opportunity institution and does not discriminate on the basis of race, religion, color, national origin, gender, marital status, sexual orientation, age, or disability in its programs, services or activities. Direct inquiries regarding the nondiscrimination policies can be made to either the Vice President for Instruction or the Director of Human Resources, 450 North Avenue, Battle Creek, MI 49017-3397.



Industrial Electricity and Electronics



inspiring generations

Regional Manufacturing Technology Center

Industrial Electricity and Electronics Program

Complex electrical and electronic control systems which require sophisticated computer programming, monitoring, and diagnostics are an integral part of advanced manufacturing and renewable energy systems. The Industrial Electricity and Electronics Program at Kellogg Community College prepares students to install, maintain, and repair these systems.

EMPLOYMENT OPPORTUNITIES

Electricians work for companies or private contractors in a wide variety of residential, commercial, and industrial buildings including homes, schools, hospitals, manufacturing facilities, shopping centers, office buildings, and apartment complexes. Industrial electricians work in manufacturing facilities on machines and automated equipment.

Job growth rate from 2006-2016 7-13%

Median Annual Earnings \$48,430

Source: United States Bureau of Labor Statistics www.bls.gov

Career opportunities include:

- Electrician (residential, commercial, industrial)
- Instrumentation and/or Electrical Technician
- Electro-Mechanical Technician
- Control Technician
- Electrical and Electronic Equipment Mechanic
- Electrical and Electronic Installation, Maintenance and Repair Workers
- Electrical Engineering Technician

With further education, opportunities include:

- Production Supervisor
- Maintenance Supervisor
- Electrical Engineer
- Quality Control Engineer
- Manufacturing/Process Engineer

PROGRAM OPTIONS

Kellogg Community College offers three program options:

- Industrial Trades Certificate in Electricity and Electronics (30 credits)
- Industrial Electricity and Electronics Associate in Applied Science (62 credits)
- Skilled Trades Associate in Applied Science for Journeyman or USDOL Apprenticeship card holders (approximately 35 credits)

RECOMMENDED TECHNICAL ELECTIVES

Robotics, HVAC-R, and Machine Tool

COURSE WORK

The course work within the Industrial Electricity and Electronics Program provides hands-on learning opportunities using real-world equipment. Courses are modular with some portions of the modules available for online completion. Modules are pass/fail, which means a student can continue to work on the module until they pass the module. Students receive one-on-one instruction from a journeyman instructor.

Topics covered in Industrial Electricity and Electronics modules include:

- Safety
- Mathematics
- Electrical Theory
- National Electrical Code
- Motor Controls
- Power Distribution Systems
- Facility Maintenance
- Electrical Control Wiring
- Industrial Electronics
- Programmable Logic Controllers
- Panel View