

# Robotics Technology

## Contact Info.

Megan Graham  
Myra Fox Skelton  
Energy Institute, Room 119  
(307) 268-2539  
mgraham@caspercollege.edu

Casper College

Trades and Technology • Fact Sheet

Many automated systems use sophisticated process control systems to perform their tasks. The Casper College Robotics Technology program has the ability to provide you with the training you need to install, maintain and repair these systems.



In this program you will learn the electrical, electronic, mechanical and pneumatic control of robotic systems. You will build five-foot-tall robots, and you will program industrial robots used in manufacturing and welding operations.



## Points of Pride

- Use actual robots from manufacturing industry
- Receive hands-on training
- Learn from curriculum designed by engineers currently in automation industry
- Work on KUKA industrial robots
- Build a five-foot-tall robot
- Participate in FIRST Robotics
- Design robot parts
- Benefit from participation in available internships

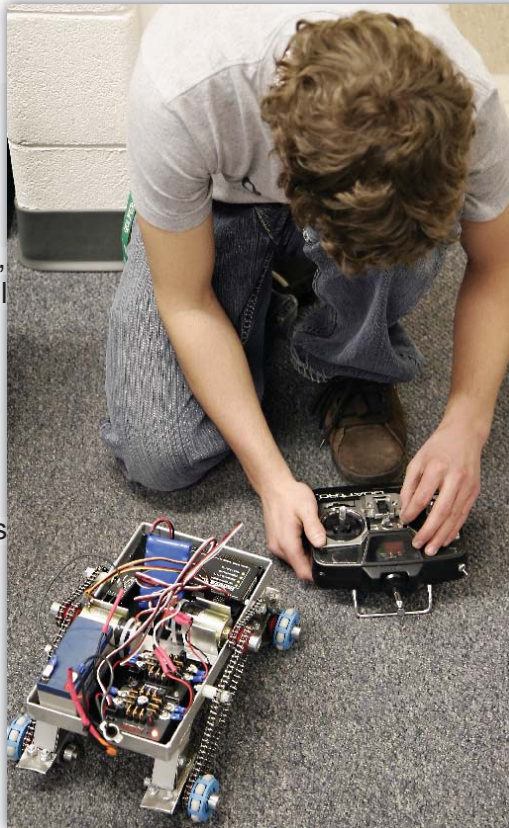
# Robotics Technology

Automation is moving into all facets of industry from manufacturing to medical, transportation to food service. The robotics program at Casper College will train you to work in the exciting field of robotics!

The Casper College Robotics Technology program incorporates electronic, mechanical, pneumatic and hydraulic control of robotic machines. Students will also learn the most common methods to program a robot.

This program goes beyond the robot itself. Students will use simulation software to learn how a robotic machine synchronizes with the other operations on the plant floor.

Graduates of this program will enter the workforce able to maintain, repair and modify robots.



## Careers:

Robotic welding technician

Robot repair technician

Robot programmer

Industrial maintenance technician

Automated systems technician

## Internships

Available with Wolf Robotics in Fort Collins, Colo.

## Industry Partners

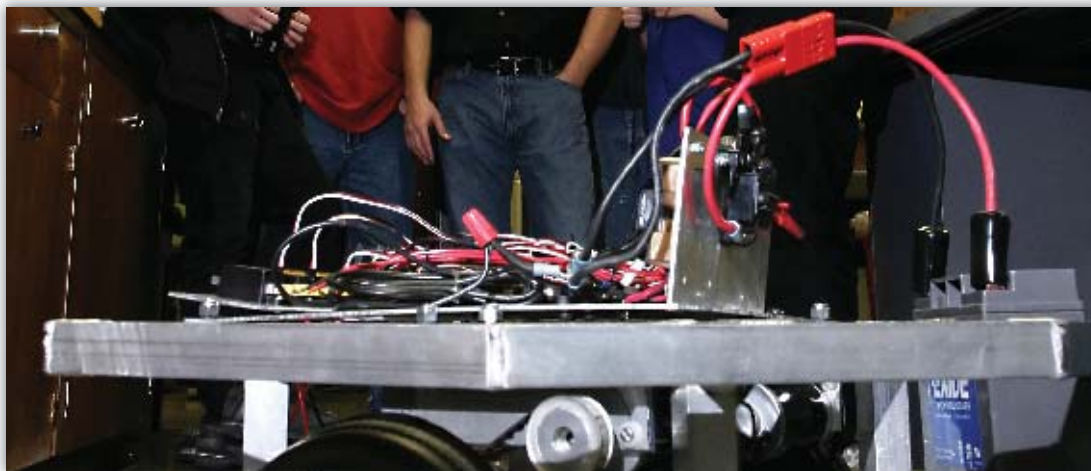
KUKA Robotics

Wolf Robotics

REXEL

Rockwell Automation

Automation Electronics



## Curriculum: Water Quality Technology

### Major Requirements:

- o Computer Science I
- o Basic Hydraulics
- o Basic AC/AD Electronics
- o Programmable Logic Controllers
- o Drafting I
- o Machine Tool Technology I
- o Machine Technology II
- o Introduction to Robotics
- o Competition Robotics I
- o Robot Construction
- o Competition Robotics II
- o Electromechanics
- o Lab View
- o Motion Control
- o Cooperative Work Experience
- o Special Topics in Automation and Robotics
- o General Welding
- o GMAW and GTAW Welding