



FANUC

ADVANCED AUTOMATION CHALLENGE 2.0

The **FANUC** ADVANCED AUTOMATION CHALLENGE 2.0 invites all CERT schools to partner with local manufactures to learn about advanced manufacturing and automation systems. This challenge encourages students to work with manufacturers to design a solution or solve a problem using FANUC products or an integrated solution with technology from FANUC, Rockwell, Cisco or Lincoln. Students (aka “Tomorrow’s Innovators”) will have the opportunity to test their STEM (science, technology, engineering, math) skills and critical thinking abilities.

Students will interview a manufacturer to learn about their processes and consider potential opportunities to apply their skills and knowledge. Students will use their school’s robot, CNC, or advanced manufacturing technology to develop/design a workable solution and provide a demonstration.

CREATIVITY IS ENCOURAGED — STUDENTS DECIDE HOW SIMPLE OR COMPLEX THEIR SOLUTION IS.

The goal of this open-ended challenge is to change the perception of what today’s advanced manufacturers looks like and introduce manufacturers to Tomorrow’s Innovators. This challenge will prepare them for exciting STEM career opportunities, develop their problem-solving skills, and introduce them to real-world advanced manufacturing applications.

Manufacturers need a workforce that is prepared to work in the new, Smart Factories of Industry 4.0. FANUC, together with Rockwell Automation, Cisco Systems, and Lincoln Electric, are committed to supporting education programs that serve the needs of the advanced manufacturing industry.

Awards will include a FANUC Robot, a FANUC CNC Simulator, a Rockwell PLC/HMI package, FANUC Simulation software, and technology from Cisco and Lincoln, representing over \$100,000 investment in STEM education programs.

SUBMISSION DEADLINE IS **MAY 1, 2017**.

WINNERS WILL BE ANNOUNCED **JUNE 1, 2017**.

Submission Process

Email all submission under 5MB to CERT.Education@fanucamerica.com - videos over 5MB must be uploaded to Dropbox and a link submitted by May 1, 2017.

- Upon submission, school will receive an Acknowledgement of Submission
- By submitting your entry to the challenge, you provide FANUC the right to display and promote your idea on social media and other promotional venues.
- FANUC reserves the right to reproduce and offer these problem solutions for the learning benefits to other CERT educational institutions.
- For additional information or inquiries please contact cert.education@fanucamerica.com

FANUC

**LINCOLN
ELECTRIC**

**Rockwell
Automation**

CISCO

Submission Form:

School Information

School Name:

Course Title:

CERT Instructor:

Phone #:

Email:

Problem Solution Information

What company/maker did you work with?

Name of company contact:

Describe the manufacturing process and the problem you developed:

Describe and explain your solution:

How did you use your STEM skills?

FANUC Products Used:

If used FANUC robot, was iRVision used?

Lincoln Electric, Rockwell Automation, Cisco Systems Products Used:

Link to demonstration video in Dropbox (if larger than 5MB):

