

Become Tomorrow's Innovators, Today!

FANUC Advanced Automation Challenge

Get your school recognized, engage your students



FANUC America is inviting all FANUC CERT schools to design the next Project Based Learning (PBL) kit!



1st place: (1) FANUC M1iA Tabletop robot
and (1) \$1500 scholarship award

2nd place: (2) Teach Pendants and Conversion Kits
(10) Academic ROBOGUIDE Licenses*
and (1) \$500 scholarship award

3rd place: (10) Academic ROBOGUIDE Licenses*
and (1) \$500 scholarship award

Submission Requirements:

FANUC CERT applicants must

1. Use a FANUC robot with or without iRVision
2. Incorporate and demonstrate STEM learning concepts
3. Include a video and tutorial demonstrating your PBL idea
4. Include a ROBOGUIDE Simulation
5. Provide a specifications sheet and CAD drawings



See Terms and Conditions for full details.

Must be submitted by May 31, 2016. Winner to be announced June 15, 2016.

*See challenge guidelines below.

FANUC Advanced Automation Challenge

Help Develop Tomorrow's Innovators, Today!

FANUC America is inviting all FANUC CERT schools to design the next **Project Based Learning Kit**

The **FANUC Advanced Automation Challenge** provides a unique opportunity to show us your innovations. FANUC is asking Tomorrows Innovators to highlight the utilization of robotic automation and technology through Project Based Learning that exemplify STEM learning outcomes.

Show us your creative ideas using Science, Technology, Engineering, and Math to problem solve real-world challenges and strengthen your STEM knowledge.

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Challenge Guidelines:

- Must use a FANUC Robot with or without iRVision
- Incorporate and Demonstrate STEM Education
- Include a Video Demonstrating your PBL idea
- Include a ROBOGUIDE Simulation of your robot program
- Provide specifications and CAD drawings of any fixture or devices.

Prizes/awards:

- 1st place receives one (1) FANUC M1iA Robot Tabletop Cell, (1) \$1500 scholarship award, and naming rights to the submitted PBL kit
- 2nd place receives two (2) Teach Pendant with PC Conversion Kits, ten (10) Academic ROBOGUIDE Licenses, and (1) \$500 scholarship award
- 3rd place receives ten (10) Academic ROBOGUIDE Licenses and (1) \$500 scholarship award

Winners will be announced on June 15, 2016

Selection Process

- How well does the PBL align to STEM learning concepts
- Level of creativity relevant to real world applications (problem solving)
- Ability to convey STEM learning objectives and outcomes in video tutorial
- Overall creativity and innovation

Definitions

- CERT School: A school that has purchased a FANUC robot and the FANUC CERT Program
- PBL - Project Based Learning
- TP - Teach Pendant (iPendant)
- PC conversion Kit: 1.5M iPendant PC Conversion Kit with Power Supply – Allows for connection of the Robot iPendant to a PC for programming virtual robots using ROBOGUIDE Simulation Software
- ROBOGUIDE Simulation Software: FANUC's Industry leading offline simulation software that allows users to program virtual robots and develop robotic Workcells simulations.

Submission Process

Email all submission under 5MB to Clara.Beauchamp@fanucamerica.com - videos over 5MB must be uploaded to Dropbox and a link submitted by May 31, 2016

- Upon submission, school will receive an Acknowledgement of Submission
- Qualified entries will receive (1) voucher valued at \$1000 towards the purchase of a new FANUC Robot (Limit 1 per school location)
- 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 PBL ideas for the learning benefits to other CERT educational institutions.
- Winners will be given the option of naming rights to their winning kit, subject to FANUC approval.
- 2nd & 3rd place winners receives ten (10) ROBOGUIDE licenses; High Schools receive ROBOGUIDE Academic EDU2 licenses, Post-Secondary Schools receive ROBOGUIDE Academic EDU1 Licenses.
- All prizes/awards come with FANUC's full one-year parts and labor warranty.

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Submission Form

School Information

School Name:

CERT Instructor:

Phone #:

Email:

Project Based Learning Kit Information

FANUC Robot Model Used:

iRVision used?

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

How did you incorporate STEM learning concepts?

How did you use ROBOGUIDE Simulation Software?

If selected as winner, what would you like to name this PBL Kit?

Please submit the following to Clara.Beauchamp@fanucamerica.com:

Submission Form

Specifications and CAD drawings

Video demonstrating your PBL kit and ROBOGUIDE simulation

Videos over 5MB must be uploaded to Dropbox and a link provided.