



2025 MFG DAY - STUDENT DESIGN CONTEST

Wisecarver Innovation Award

Idea:

This year's theme challenges you to explore the boundaries of innovation in extreme environments. Your system should be built for reliability and performance in harsh conditions. Here are some examples:

- Autonomous Wildfire Rover: A robotic unit that navigates rugged terrain to clear brush, apply retardant, or monitor fire spread.
- Medical Supply Shuttle: Unmanned system delivering vaccines, medicine, or water tools to remote or disaster zones.
- Flood Response Rover: Detects water levels and deploys pumps, barriers, or flotation devices.
- Earthquake Debris Sorter: A mobile robot that clears and sorts debris to open paths for rescue teams.
- Portable Clean Energy System: An automated solution that deploys solar panels or turbines in disaster areas.

Description:

Design a motion-powered robotic or automated system that addresses a real-world crisis related to environmental protection, disaster response, or humanitarian relief. Your solution must integrate at least one Bishop-Wisecarver motion component, such as DualVee®, UtiliTrak®, or a custom mechatronic subsystem.

All designs must incorporate at least one Bishop-Wisecarver motion product to demonstrate motion reliability, durability, and performance in unpredictable and extreme environments. These solutions reflect BW's expertise in harsh-condition automation and long-lasting motion control systems.

Prizes:

One (1) winner will be chosen and receive \$250. Their school will also receive a \$1,000 donation from Bishop-Wisecarver.

How to Submit Your Idea:

Provide a 60-second video that includes an overview of the idea and what it does. In addition to the video, please attach drawings to support your robotic system design.

Dates & Deadlines:

The design contest kicks off on October 3, 2025. Please submit your video, drawing(s) and contact information to mfgday@BWC.com. Deadline to submit is December 19, 2025.

Contact Information for Submission:

Name:
School Name & Address:
Grade:

Winner:

The leadership team at Bishop-Wisecarver will review all entries and determine the winner of the 2025 Wisecarver Innovation Award by January 16, 2026.

Three key areas will be used to determine the winner (in no particular order or importance ranking):

1. Innovation -- How does this idea represent a process improvement for the entertainment/automation industries?
2. Thinking outside the box -- Originality of idea.
3. Executable -- Is this something that could actually be developed/implemented leveraging existing or new technology?

Eligibility:

Eligible to students currently enrolled in a primary or secondary accredited educational facility only.

Questions: Please contact us at mfgday@bwc.com.