

Engineering Design for Everyone Workshop

UNLOCK THE WORLD OF ENGINEERING FOR YOUR STUDENTS!

Join us for an extraordinary day of discovery and innovation at the Engineering Design for Everyone workshop, exclusively designed for **5th-12th grade students and their educators**. This engaging, hands-on workshop provides a unique opportunity to dive into the world of engineering and STEM.

Why Attend?

Empower Educators: Gain valuable insights from engineering and engineering technology college and university faculty on integrating STEM in your classroom.

Inspire Students: Challenge students to engineer a chain-reaction machine that performs tasks in innovative ways.

Cross-Curricular Learning: Enhance your curriculum by integrating engineering design principles across various disciplines.

Explore STEM Careers: Open students' eyes to exciting, high-demand careers in STEM fields.

Workshop Highlights:



Educator Workshops

Increase your confidence in integrating engineering concepts into your teaching.

Inclusive Learning

Discover strategies to make engineering appealing to all students, especially those traditionally underrepresented in STEM.

Hands-on Challenge

Students engage in a team challenge that includes mechanical, electrical, and computer programming elements.

Don't miss this chance to enhance your teaching methods and spark your students' interest in STEM. Register now and be part of this exciting journey to inspire the next generation of STEM professionals.

We look forward to welcoming you and your students to a day filled with learning, innovation, and fun!

Workshop Details:

Dates & Locations:

Oct. 1, Minnesota State University, Mankato

Oct. 11, Anoka Technical College

Oct. 16, Winona State University (NO COST!)

Time: 9:00 AM - 2:30 PM

Cost: \$5 per person

(Fee waived upon financial need request)

Register by: Open until filled.

Limited Space

Up to 24 Students (5th-12th grade) per school. Secure your spot early! Schools participating in this workshop will receive an engineering design kit (a \$500 value!).

Registration



Visit the [Registration Link HERE](#) to register. *Financial assistance is available upon request including bus and sub-teacher expenses.*

Join the Movement

This workshop introduces the **Engineering Machine Design Contest** (EMDC), a platform for teams to showcase their engineering prowess at regional events. EMDC is committed to providing a low-cost, inclusive experience that inspires and prepares students for their futures. engineering.mnsu.edu/EMDC/



Dive into the World of Engineering with EMDC!

About EMDC: The Engineering Machine Design Contest (EMDC) offers teams of 5th-12th graders the exciting challenge of designing, building, and showcasing a chain-reaction machine that performs a simple task in the most intricate way. Participants spend 31-40 hours in preparation, culminating in a display at regional events with a chance to advance to the Championship event.

Why Participate in EMDC?

Affordable Learning: We're committed to providing a cost-effective way for schools and teams to engage in high-quality STEM education.

Inspiring Innovation: EMDC ignites passion for engineering, technology, and related careers by offering a creative outlet for exploration and discovery.

Skill Development: Participants gain invaluable skills in problem-solving, collaboration, and technical proficiency, setting the foundation for future career success.



Our Commitment to Diversity: EMDC is proud to foster an environment of equitable engagement, maintaining a 1:1 gender participation ratio and encouraging teams from diverse backgrounds. With 60% of teams integrated into school curricula, we ensure a broad reach and impact across various educational settings.

ENGINEERING MACHINE DESIGN CONTEST

Why EMDC Stands Out:

- A **low-cost** entry to high-level engineering challenges.
- A **unique blend** of technical education, physics, and general STEM learning.
- A **supportive platform** for all students, ensuring no one is left behind due to financial barriers.

Get Involved

The Engineering Design for Everyone workshop is your gateway to the EMDC. It's not just a contest; it's an opportunity to join a community dedicated to making engineering fun, accessible, and inclusive.

Join Us

Empower your students to think like engineers, work like scientists, and dream like innovators. Participate in EMDC and help us inspire the next generation of STEM professionals.

More Information



engineering.mnsu.edu/EMDC/

Contact Us

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