

Powering Student Learning Through Invention Projects and Clean Energy

A professional development workshop for high school educators

October 28, 2026 • Haverhill MA

FREE OF CHARGE



Be a part of the invention education movement. Thousands of teachers throughout the country and abroad are discovering how invention education develops the technical and durable skills students need to navigate their futures.

Your students can be inventors!

Invention education engages students in problem finding and solving activities that support their development of:

- 1) the ability to acquire and apply knowledge from different disciplines,
- 2) learning to use tools, technologies, and materials, and
- 3) durable human skills (e.g., teamwork and collaboration).

Even if your students have had little prior exposure to STEM, this workshop will teach you how to help them develop confidence in their abilities, curiosity, and a genuine love of learning and pursue STEM college and career pathways.

The invention process is inherently transdisciplinary.

Educators from all disciplines are welcome — STEM, Physics, CTE, English, History, and beyond. This workshop uses clean energy as a focus of students' work and career exploration but the process fits all subject areas.

Who should attend?

Educators and administrators who want to enrich students' educational experience through invention:

- Teachers of all subjects
- Career & Technical Education (CTE) educators
- After-school and enrichment professionals
- Community college faculty
- School and district administrators



What will you learn?

The Invention Process Sprint

Experience our signature hands-on activity – the full invention process in just four hours.

Intro to MassCEC curriculum

Learn how to blend MassCEC curriculum with the invention process, strengthening STEM, student research, public speaking, and enrichment in all grade levels.

Intro to Massachusetts Invention Convention

Discover how your students can become inventors and feature invention prototypes at the Massachusetts Invention Convention.

Facilitators & speakers

Workshop sessions will be led by:

- Lemelson-MIT Program staff (former classroom teachers) and educators experienced in guiding students through the invention process
- Educators leading our focus on clean energy and construction technologies
- Representatives from the Massachusetts Invention Convention who will share resources and support to help young inventors take their ideas to the next level. Registered school programs receive a \$100 supply gift card to be used towards invention supplies.

The Lemelson-MIT program has become a national leader in efforts to prepare the next generation of inventors and entrepreneurs. Our work focuses on the expansion of opportunities for all young people to learn ways inventors find and solve problems that matter. We are devoted to bringing invention education opportunities to students from all backgrounds and enable them to identify problems, develop inventions, protect their intellectual property, and commercialize their creations.

What educators and students say

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The Invention Sprint provided inspiration and methodology to promote academic discourse in the classroom while providing students with a practical real-world lesson plan around the invention process.

High School CTE Teacher
Watertown High School

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I never expected my students to take ownership so quickly. Watching them identify a real problem and work toward a solution changed how I see my role as a teacher.

High School Physics Teacher
Cambridge Rindge and Latin School

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I used to think inventing was only for certain kinds of kids. Now I know it's for me too. I'm making something that could actually help people – and that feels amazing.

Student
Haverhill High School

How to register

Space is limited, so please register early. We encourage you to bring teammates from your education community to learn alongside you.



Date: Wednesday, October 28, 2026

Location: Pinnacle at Harbor Place, 2 Merrimack Street, Haverhill, MA

Time: 12:00 p.m. to 4:00 p.m. with lunch included

Cost: Free of charge

Parking: Complimentary parking available

Attendees will receive credit for 4 participation hours

For more information and to register, scan the QR code or visit Lemelson.mit.edu/FallPD2026. You can also email tracyjc@mit.edu.