

Powering Student Learning Through Invention Projects and Clean Energy

A professional development workshop for high school educators

October 14, 2026 • Haverhill MA

FREE OF CHARGE



Lemelson-MIT is pleased to announce a free professional development workshop for high school educators in collaboration with the Massachusetts Clean Energy Center (MassCEC).

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.

Join us for a unique and productive experience

Participants will learn about MassCEC's clean energy resources and ways powerful learning opportunities were created in combination with LMIT's invention education process.

Educators will receive insight into integrating interdisciplinary topics into their classroom from others in their cohort, LMIT professionals, and external collaborators. In addition, you'll:

- Learn how to support students using an invention lens to find clean energy related problems in need of solutions and discover exciting career possibilities for their future,
- Gain an overall understanding of how to facilitate student-led invention projects with support from others in the community, and
- Develop an action plan for utilizing the curriculum.

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

No prior STEM or engineering background required.

Attendees will receive credit for six participation hours.

MIT School of Engineering



What will you learn?

The Invention Process Sprint

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

Inventing Smart Solutions curriculum

Ready-to-use curriculum strengthening STEM, student research, public speaking, and enrichment at any grade level..

Expert speakers & thought leaders

Techniques proven to build student confidence in STEM from innovators and education leaders.

Facilitators & speakers

Workshop sessions will be led by:

- Lemelson-MIT Program staff (former classroom teachers)
- Former InvenTeam educators experienced in guiding students through the invention process
- Educators leading our focus on clean energy and construction technologies

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

“

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

“

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

“

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 14, 2026

Location: PINNACLE Harbor Place, 2 Merrimack Street, Haverhill, MA

Time: 9:00 a.m. to 3:00 p.m. with a one-hour lunch (included)

Cost: Free of charge

Attendees will receive credit for six participation hours.

For more information and to register, scan the QR code or visit Lemelson.mit.edu/FallIPD2026. You can also email tracyjc@mit.edu.