

## MISSION AND VISION

The Lemelson-MIT Program promotes invention and the early stages of entrepreneurship across the United States through its prize program for collegiate inventors and its invention education initiatives. Our mission is to inspire young people to pursue creative lives and careers through invention, and to support their development as inventors and creative problem solvers through invention education opportunities. We are leading research efforts in the new field of invention education with a goal of forging collaborations and invention education pathways from kindergarten through college to ensure all youth have opportunities to learn to think and work as inventors.

One of U.S. history's most prolific inventors, Jerome Lemelson and his wife Dorothy, founded the Lemelson-MIT Program at the Massachusetts Institute of Technology in 1994. The family continues to support this vision through [The Lemelson Foundation](#) and grant funding administered by [MIT's School of Engineering](#).

## TEAM LEADERSHIP

The program carries out its mission with a creative team of 11 people and is led by Faculty Director, Michael Cima, an inventor with over 80 patents and Associate Dean of Innovation in MIT's School of Engineering. Executive Director, Stephanie Couch, PhD, leads the program with over 16 years of experience in STEAM education policy, research, development and fundraising experience.

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## PROGRAMS FOR STUDENTS

### Student Prize for Collegiate Inventors

The Lemelson-MIT Student Prize recognizes and brings national awareness to undergraduate teams and graduate students that have invented solutions in prize categories that represent significant sectors of the global economy. Recognition college students receive from winning the Lemelson-MIT Student Prize brings new opportunities and added support for students' work as inventors.

### InvenTeam® Grant for High School Inventors

The InvenTeam® initiative has been changing the way educators teach and providing young people—especially young women and students from underrepresented backgrounds—with creative problem solving and 21st century skills to flourish in college and career for over 15 years. High school students experience invention and cultivate creativity through an InvenTeam grant of up to \$10K.

### Invention Education Curriculum for Young Inventors

Lemelson-MIT offers free JV InvenTeams™ curricula on its website for students in grades 6–10 to hone their hands-on skills and enrich their STEM education through invention-based design activities. Activity guides support hands-on learning and teach students the role invention plays in making everyday products.

### InventionAdventures™ for Young Inventors

InventionAdventures is a two-week summer camp program for middle school students to build hands-on STEM skills, experience teamwork, learn about the work of inventors, while creating an invention activity and having fun in the process (cancelled summer 2020 due to COVID-19).

## PROGRAMS FOR K-12 EDUCATORS AND ADMINISTRATORS

### Excite Awards for K-12 Educators

Lemelson-MIT provides 25 Excite Awards each year to K-12 educators who want to learn ways of engaging youth—especially young women and students from underrepresented backgrounds—in science, technology, engineering and mathematics (STEM) through creative problem solving and the design and construction of invention prototypes. Excite Award recipients receive a stipend and free registration to professional development for invention educators

### Partners in Invention Education

Partners in Invention Education is a membership driven professional learning community for collaborative efforts between K-12 and community college administrators, educators and those who specialize in working with young people to invent solutions to real world problems.

### Invention Education Summer Workshop

A three-day summer workshop to develop educators' capacity to help kids learn to think and act as an inventor while developing a solution to a real-world problem. Educators learn how inventing can be used to engage youth in STEM learning opportunities that focus on creative, open ended, inquiry-based problem finding and problem solving.

## PARTNERSHIPS

Lemelson-MIT collaborates with a variety of organizations and businesses working to expand learning opportunities in the areas of engineering, science, computer science and computational thinking, making, inventing, entrepreneurship and the Arts. We partner with K-12 educators, administrators, and colleges and universities around the country to accomplish our mission. If you are interested in partnering with us, contact us at [lmit-partners@mit.edu](mailto:lmit-partners@mit.edu).



Students from Fletcher Maynard Academy in Cambridge, Mass with 2019 Lemelson-MIT Student Prize winner, Mercy Asiedu at EurekaFest.



2019 Lemelson-MIT Student Prize Undergraduate Team winner, Ithemba from Johns Hopkins University invented a reusable, low-cost contamination-free breast biopsy device.



InvenTeam students showcase their invention at the Lemelson-MIT Program's annual event, EurekaFest.

## RESULTS AND IMPACT

**109 college students awarded prizes since 1995**  
**30% of those women**  
**64% launched their own startups**

**270 InvenTeam grants awarded since 2003**  
reaching **2,900 students in 43 states**  
**35% women, 21-44% underrepresented**  
**12 InvenTeams have been awarded patents**

**Number served in 2019**  
**through workshops, webinars**  
**and youth invention camps** : **3,219 students**  
**494 educators**

**LEMELSON-MIT**

**LEARN MORE:**  
[lemelson.mit.edu](http://lemelson.mit.edu)

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