



# LEMELSON-MIT

*Celebrating invention, inspiring youth*

## Developing Creative, Inventive Mindsets and Skills that Prepare Middle and High School Students for Careers in a Rapidly Changing World

### A Three-Day Workshop Offered by the Lemelson-MIT Program

**Midwest | July 11-13, 2018** at Fox Valley Technical College in Appleton, Wisc.

**West Coast | July 25-27, 2018** at California Polytechnic State University in Pomona, Calif.

**East Coast | August 1-3, 2018** at the Massachusetts Institute of Technology in Cambridge, Mass.

The Lemelson-MIT Program, located within the School of Engineering at the Massachusetts Institute of Technology (MIT), has been celebrating outstanding inventors and working to inspire young people to pursue creative lives and careers through invention for more than twenty years. We are now working to share what we have learned with educators across the U.S. as we believe that the development of creative and inventive mindsets are critical to young people's ability to thrive in today's technologically driven, rapidly changing world.

Our examination of the demographics of current patent holders, people who possess 'creative and inventive mindsets', suggest that advanced degrees in STEM fields are highly associated with technological inventions. However, STEM knowledge must be accompanied by other types of knowledge, skills and ways of thinking such as creativity and inventiveness which are related to but distinctly different from STEM knowledge and skills. Creative design and other aspects of the invention cycle must be taught explicitly, are typically developed over time, and are shaped by experiences in and out of school. We have made activity guides available to educators free of charge, and are hosting three workshops this summer to share our insights into invention education with other educators working to provide developmentally appropriate learning opportunities for students in grades 6-10.

### Presenters/Hands-On Workshop Facilitators

Workshop sessions will be facilitated by Lemelson-MIT Program staff (former teachers) and former InvenTeam teachers who have experience helping student teams learn to invent.

### Who Should Attend

Middle and high school teacher leaders, after school professionals and other educators.

### What Will You Learn

The three-day workshop will develop educators' capacity to help kids learn to think and act as an inventor while developing a solution to a real-world problem. The workshop includes strategies for the effective use of JV InvenTeam activity guides made available free of charge on the Lemelson-MIT website at <http://lemelson.mit.edu/resources>.

## Cost

Registration is \$1,500 per participant and includes lunch for all three days and workshop materials. Space is limited to 30 educators at each site. We will maintain a waitlist once the registration limit is reached.

## Payment Information

We have three options for payment: paying by credit card, paying by check, or paying by invoice. Please include attendee names on all checks and purchase orders.

- If paying by credit card, full payment is due upon registration on our website at [lemelson.mit.edu/events](https://lemelson.mit.edu/events)
- If paying by check, payment must be received within 30 days of registration and payable to the Lemelson-MIT Program.
- If paying by invoice, you must supply a purchase order number within 30 days of registration. We cannot hold spaces without a purchase order.

## Register and learn more at [lemelson.mit.edu/events](https://lemelson.mit.edu/events)

Please contact [PD-lemelson@mit.edu](mailto:PD-lemelson@mit.edu) with any questions.

The Lemelson-MIT Program  
Massachusetts Institute of Technology  
222 Third Street, Suite 0300 Cambridge,  
MA 02142

