LEMELSON-MIT

P2I PATHWAYS TO INVENTION AND INNOVATION

Creating the next generation of inventive problem solvers and engaging your future workforce

The Lemelson-MIT (LMIT) program is seeking sponsors for customized, interactive offerings that will connect high school students worldwide in **live, virtual programs** to discover ways leaders in your field are inventing and innovating.

JOIN LMIT IN CREATING TRANSFORMATIVE PROBLEM-BASED LEARNING

Benefits for Your Organization

Global reach and long-term impact
Engage youth globally, supporting communities you operate in and potentially extending your reach to new areas

Career awareness and workforce development
Connect with future talent and innovators

Collaborative expertise and access to the LMIT network
Work with LMIT's highly skilled team to co-design and implement the program, with potential access to LMIT's network of experts in science and technology

Corporate social responsibility
Boost your social impact by contributing to the growth of future leaders in innovation while giving back to your community

Collaborating with LMIT will align your organization with a national leader in invention education. We have been helping students and educators across the United States get on the pathway to invention for 30+ years.

How does it work?

LMIT collaborates with your organization to design and deliver a custom program that aligns with your mission and expertise. Our support includes:

Program design and management
Ensuring a seamless, high-quality experience mentoring student projects

Technology and facilitation
Providing guidance and support for virtual delivery

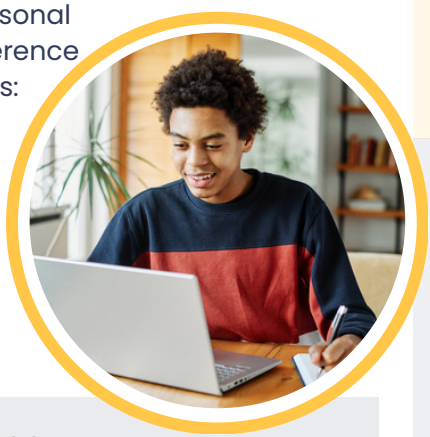
Expert instruction
Sourcing skilled educators for small-group learning and mentoring student projects

Assist with student and speaker recruitment
Supporting you in connecting experts in your field with curious learners

Benefits for High School Students

In U.S. high schools, the average student-to-counselor ratio is 385:1, leaving students without the guidance they need to explore and discover career possibilities. LMIT's highly rated programs bridge this gap by demystifying the work in growth industries and helping students discover career possibilities, personal interests, and ways they can make a difference in the world. This unique opportunity offers:

- **Engaging dialogues with professionals**
- **Team collaboration**
- **Culminating project event**
- **Signed certificate of achievement**



> "Through the cycle of defining problems, researching, designing, and testing, I can prototype and develop new ideas and inventions efficiently."
>
> *Aisha A., Rail Innovation in Action student participant*

Sponsorship Information:

Costs for each online offering vary according to the duration, number of students, and other factors. A typical program for 250 students that runs for 8-weekends in fall or 2-weeks in the summer is $225,000. Sponsorship may be shared across organizations and/or industry groups.

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Our curriculum designers and educators have the experience to bring customized programs to life using industry experts from your field. Examples include:

Biotech in Action

Launched in 2020 in collaboration with a leading biotechnology company, we introduced students to the process of developing new therapeutics for neurological diseases to improve lives. Over three years and 14 sessions, over 2,000 students gained real-world insights into biotechnology careers and innovations.

Rail Innovation in Action

The California State Railroad Museum and LMIT co-created an eight-week program focused on students learning about railroad electrification power alternatives and supply chain management. Over 200 students from around the country participated. The program will be offered again with a new theme.

Imagine YOUR field in action!

Picture students tackling real-world challenges in your field, working alongside your experts and connecting with MIT scientists and innovators to explore cutting-edge topics. Envision people in your field engaging in meaningful conversations with curious, bright high school students, sharing examples of innovations being developed to improve lives and college/career trajectories.

This is your opportunity to collaborate with LMIT to develop a program that will educate and inspire the next generation of creative problem solvers.

Contact Stephanie Couch, PhD
at scouch@mit.edu.

P2I Virtual Learning Team

P2I PATHWAYS TO INVENTION AND INNOVATION

Stephanie Couch, PhD
Executive Director, Lemelson-MIT Program
- 20+ years of experience with creating large-scale virtual education offerings
- Researcher specializing in ethnography and learning, culture, and technology
- Led numerous local, state, and national STEM-related education initiatives
- Significant leadership roles in education policy and school finance

Amanda Marvelle, PhD
Marvelle & Callahan Consulting, Program Director
- STEM education leader with robust scientific background (PhD in Genetics and Molecular Biology)
- Proven track record of creating and implementing STEM education initiatives on both local and global levels, notably founding an innovative STEM high school
- Skilled in project management with expertise facilitating collaboration, fostering partnerships and delivering lasting impact
- Corporate responsibility leader with experience in driving employee engagement in STEM initiatives

Tracy Callahan, PhD
Marvelle & Callahan Consulting, Program Director
- STEM education leader with +25 years of experience in the informal STEM education field along with a rigorous scientific background (PhD in Neuroscience)
- Deep experience designing and implementing programs and curricula that engage youth in scientific concepts and career paths
- Expertise in program quality assessment
- Experience leading and managing initiatives and peer learning cohorts
- Skilled in creating and facilitating professional development activities for educators

Monica Storss, BA (MA/PhD in progress)
Instructional Design & Technical
- Expertise in experience design, media, and emerging technology
- Built learning programs and systems for MIT, HP, Intel, Xerox, PayPal and many others
- Human computer interaction, digital humanities, science and technology studies researcher
- Digital transformation & learning science

Tamara Galoyan, PhD
Evaluation & Research
- 15+ years of experience developing and teaching online, hybrid, and onsite courses
- Expertise in STEM pedagogy and STEM education research
- Expertise in program evaluation, curriculum development, and assessment
- Expertise in mixed methods, qualitative methodology (e.g., case studies, focus groups, interviews), quantitative studies (e.g., surveys, experimental studies)

Experience At-A-Glance

Extensive virtual learning program development and delivery experience

Research-based curriculum development

STEM education expertise

Knowledge of leading edge theories and educational tech that can be combined to make learning impactful and fun!

In-house ethnographic and mixed-methods research capacity

For more information, contact Stephanie Couch, PhD at scouch@mit.edu.

lemelson.mit.edu

Support Team

Tracy Jean-Chronberg
Communications Manager
- 25+ years marketing and communications
- Marketing strategy development
- Participant recruitment expertise
- Experience developing marketing programs for a variety of industries

Brian Lombardo
Communications Coordinator
- Experience formulating marketing and communication strategies
- Executes a multichannel social media strategy
- Experience developing and executing targeted email marketing campaigns
- Experience in content development

Fabrizio Gentili
Administration Coordinator
- Manages and coordinates schedules
- Oversees and optimizes logistics
- Supports and enhances the registration system, streamlining the participant experience
- Fosters meaningful engagement with participants and broader community