

# Invention Education ... Educating for Real!

Activate knowledge and practices from all disciplines as students engage in problem-based learning.

Partners in Invention Education (PIE) is a professional learning community for K-14 educators, administrators, and collaborators and the Lemelson-MIT Program (LMIT) staff who work with PIE members to:



**2** Enhance your offerings with LMIT's curriculum resources, insights from over 25 years of IvE, so you can increase the impact in your community.

**1** Design and manage your offerings with your key employees to ensure the content is tailored to your goals.

**3** Draw on a unique team of education researchers to help you demonstrate your outcomes.

**4** Plug into your local ecosystems to broaden exposure and recognition of your endeavors, guide investment, and prevent duplication of efforts.

PIE members are supported in their work through LMIT's professional development summit and these working groups:

#### IvE Adventures and K12 Makers

(Grades PK-12) Introduce students to making and inventing through playful activities, coaching and mentoring, leading to submissions to fairs, conventions or competitions.

#### Junior Varsity (JV) InvenTeams

(Grades 6-10) Establish technical knowledge, mindsets, and hands-on skills to prepare students to develop prototypes of inventions.

#### High School and Community College Curriculum Resources

(Grades 9-14) Easily adaptable resources that enable students to develop prototypes of inventions that solve problems of their own choosing. Includes guidance on implementing an invention and a computer science-focused capstone course that meets California's third-year lab requirement for the University of California system, giving students the experience and credits needed for competitive college applications.

# 25+ Years of Impact

LMIT impacts an estimated 500 educators and nearly 4,000 students annually. High school student teams in our InvenTeams® initiative have been awarded 13 patents with four more patents pending (2022). Our thought leadership has generated 20 research journal publications, nine conference papers, and 17 case studies.

## MEMBERSHIP DETAILS

### Silver Membership: \$10,000/year

- Three free registrations\* for a three-day summer professional development summit for educators.
- Opportunities for three educators and/or administrators to collaborate across the school year with Lemelson-MIT staff and the working groups via remote conferencing to continue their professional learning.
- Up to three hours of free collaborative working sessions with Lemelson-MIT staff to provide advice on school- or district-specific efforts for invention education expansion.
- Free access to existing teaching resources as well as new resources developed by the Lemelson-MIT Program and made available via a Creative Commons license.
- Assistance with engaging your surrounding business community and elected officials in supporting your efforts.
- Lemelson-MIT Partners in Invention Education banner for participating school sites and main office.

### Silver Membership Supplementary Options:

- Discounted pricing off current rates (20% discount) for additional registrations in the summer professional development workshop.
- Additional collaborative working sessions and in-person visit by LMIT staff (\$1,000 per day plus travel).



### Gold Membership: \$20,000/year

Everything included in Silver Membership, plus:

- Unlimited number of free registrations\* for the summer professional development workshop and year-round working groups.
- District- or site-level curriculum review (up to 40 hours) by invention education experts and suggestions on how to integrate invention education into existing instructional offerings to determine ways of enhancing student outcomes.

### Gold Membership

#### Supplementary Option:

- Additional collaborative working sessions and in-person visit by LMIT staff (\$1,000 per day plus travel).

## BENEFITS OF JOINING PIE

### LMIT's Partners in Invention Education community is unique and offers many advantages over other programs:

- Association with the MIT name
- Access to STEM professionals from diverse backgrounds who can serve as role models
- Ability to deliver education online, in person, or in a hybrid model
- Economies of scale from shared use of technologies, licenses and technical support
- In-house researchers with many years of experience in STEM and Invention Education who can help with design and demonstration of outcomes

- Proximity to STEM professionals willing to share information and expertise in emerging fields due to commitments to equity and social justice
- Ties to leaders of STEM, intellectual property, and entrepreneurship ecosystems and networks in states across the nation
- Visibility with policymakers for joint work that advances diversity, equity, and inclusion in STEM, invention, and entrepreneurship

\*Does not include hotel or travel for in-person professional development workshops.