

ASME K-12 STEM Programs:

Unlocking Engineering to Catalyze Career Exploration

ASME’s mission within K-12 STEM education is to promote equitable access to highly impactful, unique content and experiences intentionally designed to reach students systemically underrepresented in STEM and related career fields. The cornerstone of all ASME K-12 engineering education program elements is a commitment to bringing forward real-world stories and related in-class experiences to infuse the optimism, empathy, and creativity that is vital to truly opening the door to “thinking like an engineer.”

Reach

64k+ students annually | 57% Title 1 school communities



- Engineering Dreams offers a video topic series sharing real-world challenges and community-based solutions anchored by the Engineering Design Process
- Supporting in-class, standards-aligned educator guides and hands-on activities
- STEM Career Video Catalogue accessing educators and students to dozens of professionals sharing their unique paths to STEM
- Content and assets available **at no cost** to students, educators, and K-12 community members
- www.engineeringdreamsinschools.com

Engage

4k+ students annually | 84% Title 1 school communities



“When I think like an engineer, it makes me feel powerful with my thoughts and I think having confidence helps solve lots of problems.”

So says Ava, a fifth-grade student participating in monthly ASME DropMEIn! classroom visits at a public school located in Chicago. Teaming up with ComEd, ASME developed a series of STEM experiences to highlight energy technologies and related career paths highlighted by ComEd employees.

“They’ve brought in engineers from diverse backgrounds, so my students are able to see themselves one day potentially in a STEM field,” said Mr. Avila, science teacher at Bronzeville.

ASME conducted 80+ DropMEIn! events across the U.S. during AY2023-2024.

Champion

77% awardees from groups underrepresented in STEM



- Aimed at graduating high school seniors who intend to pursue an engineering degree or related STEM studies.
- Planned enrollment at a full-time in an ABET- accredited or substantially engineering/engineering technology program.
- Student needs to show their involvement in STEM related activities.
- Demonstrates family financial need in order to go to college.
- Awarded \$60K+ in scholarships AY2023-2024.