Empowering Next Generation Engineers

ASME’s Philanthropic Programs

ASME Foundation
WE BELIEVE

the future depends on
SUSTAINABILITY

diversity drives
INNOVATION

engineering should benefit
EVERY HUMAN BEING

WE ARE THE
ASME FOUNDATION
As the philanthropic arm of the American Society of Mechanical Engineers, the ASME Foundation funds programs that empower next generation engineers.

ASME, founded in 1880 as a professional community for engineers, sets the global standards for excellence and public safety across mechanical engineering and related disciplines.

The Society’s people, programs, forums, conferences, research and rich digital ecosystem accelerate cutting-edge engineering innovations for the greater good.

FOR 140 YEARS,
ADVANCING ENGINEERING FOR THE BENEFIT OF HUMANITY.
Climate change, clean water, hunger, and disease are among the many urgent threats confronting our world. These are engineering problems. Engineers can provide the sustainable solutions we need, but only if we harness the talent of the full diversity of humanity.

EQUITY AND SUSTAINABILITY CAN’T WAIT.

With the right support, the possibilities are infinite.

The ASME Foundation’s Campaign for Next Generation Engineers supports powerful programs that foster equity in engineering and advance life-changing, sustainable innovation.
ASME’S BREAKTHROUGH APPROACH

From early inspiration to world-changing innovation

EDUCATION THAT INSPIRES

Igniting a lifelong passion for engineering in K-12 through college and graduate school

CAREERS THAT MATTER

Propelling early-career engineers toward a lifetime of meaningful work and engagement

IDEAS THAT INNOVATE

Nurturing groundbreaking ideas to improve quality of life in underserved communities
EDUCATION
THAT INSPIRES
INTRODUCING K-12 TO THE WONDERS OF ENGINEERING

Illuminating the “E” in STEM for all students

ENGINEERING DREAMS

Reaching more than 635,000 students annually through an alliance with Discovery Education, delivering engineering-related STEM curriculum.

DropMEin!

Classroom visits, both virtual and in-person, by professional engineers who open young minds to all the ways engineers can build a better world.

Engineering is the only STEM discipline not typically included in the K-12 curriculum

68% of participating schools are Title I qualified; the program champions more inclusive, better prepared K-12 students energized to pursue STEM
It is impossible to know how many would-be engineers will never have had the chance to realize their potential because they could not afford an engineering education.

ASME Foundation Scholarships address the college funding gap for the most deserving students in the U.S. and abroad.

In the U.S., among engineers with college degrees, less than 15% are women and less than 14% are individuals from minority groups long underrepresented in the profession.

THE ASME FOUNDATION AWARDS NEARLY

45% OF ITS SCHOLARSHIPS TO STUDENTS OF COLOR AND

40% TO FEMALE STUDENTS BASED ON FINANCIAL NEED.
ASME E-FESTS®


Where engineering students

Invent

and

Advance

ASME E-FEST DIGITAL®

Virtual, global outreach events that offer challenging competitions, skill-building workshops, and networking opportunities for college-age students.

The thousands of students who participate each year learn from experts, engage in team-based engineering design competitions, and build their technical skills. They begin to create a professional network by connecting with industry representatives and have a forum to demonstrate their passion and competence to potential employers, many of whom look to E-Fests as recruitment opportunities.

ASME EFX®

An EFx version enables any engineering school in the world to host its own localized E-Fest event.

EFx also presents sponsorship opportunities for industry partners who seek to develop and support the local engineering workforce.

ASME E-FEST CAREERS

A virtual career development event attracting up to 5,000 students and early-career engineers; features sessions on interviewing, networking, optimization of LinkedIn, resume writing, and technical skill-building. Best-in-class employers use E-Fest Careers to recruit next-generation talent.
HBCU ENGINEERING PATHWAYS

Enabling access to engineering careers

ASME collaborates with HBCUs to:

- Help administrators and faculty align engineering curriculum more closely with market needs
- Connect students to mentors, scholarships, internships, apprenticeships, and jobs with best-in-class organizations and companies
- Establish ASME student chapters with access to ASME events, competitions that provide hands-on learning, and opportunities to volunteer
- Enable participation in ASME’s member network on regional, national and global levels
- Illuminate potential career pathways via FutureME, a new ASME digital career engagement platform
ASME CCEP

Community College Engineering Pathways

ASME’S GAME-CHANGING INITIATIVE WITH COMMUNITY COLLEGES CREATE NEW CAREER PATHWAYS FOR SKILLED TECHNICAL WORKERS WITH TWO-YEAR DEGREES OR OTHER CERTIFICATIONS.

ALIGNING
community college curriculum with rapidly changing technology

BUILDING
community college resources for career development support

CULTIVATING
an employer network accessible to community college students
FUTURE ME

A World of Professional Possibility

A CAREER DEVELOPMENT DIGITAL PLATFORM FOR STUDENTS AND EARLY CAREER ENGINEERS

ACCESS TO OPPORTUNITIES
Links to jobs, training, certifications, conferences, internships, fellowships, and scholarships

PROFESSIONAL NETWORKING
Connects early-career engineers and technicians with mentors, peers, and ASME experts worldwide

DYNAMIC ROADMAPS
Provides a view into the evolution of job types and the skills and credentials needed to advance and stay market relevant

JOB MARKET INTELLIGENCE
Presents global employment and workforce data searchable by discipline, experience, and location
provide non-partisan technical expertise to policymakers in the U.S. Congress, the White House, and federal agencies, advising on energy, manufacturing, infrastructure, and technology

are outstanding doctoral candidates in mechanical engineering who are pursuing careers as engineering educators. Fellowships are awarded with a focus on women and underrepresented minorities
Gwynne Shotwell, president and chief operating officer of SpaceX, and Dr. Aprille Ericsson, new business lead for the NASA Goddard Space Flight Center Instrument Systems and Technology Division, are both recipients of ASME’s Ralph Coats Roe Medal recognizing outstanding contributions toward a better public understanding and appreciation of the engineer’s worth to contemporary society.
ASME ENGINEERING for CHANGE

The global initiative to engineer a sustainable world

CHANGING MINDS. CHANGING LIVES.

- Engages the global engineering community around critical sustainable development goals
- Opens minds to think differently, transforming how and where sustainable engineering is done

KNOWLEDGE HUB

- Cutting-edge technology
- Thought leadership
- Actionable research
- Training, webinars, networking

IMPACT PROJECTS

- Fellowships
- Network of expert advisors
- Solutions library of emerging technologies

ONE MILLION+

USING ENGINEERINGFORCHANGE.ORG FOR RESEARCH, TRAINING, AND COLLABORATION
E4C FELLOWSHIPS

Impact Projects Advancing Sustainability

UP TO 50 ENGINEERING FOR CHANGE (E4C) FELLOWSHIPS

are awarded each year to engineering students and early-career engineers—more than half of them women—exploring solutions to the United Nations Sustainable Development Goals

THEIR SIX-MONTH IMPACT PROJECTS

are fully documented in the E4C Solutions Library, an open-access resource for the global innovation community

WWW.ENGINEERINGFORCHANGE.ORG
ASME IDEA LAB
ASME ISHOW

From Brilliant Ideas to Sustainable Solutions

- Providing technical expertise, seed capital, and business insight to early-stage social entrepreneurs
- Realizing the vision of high-potential new products, bringing them from concept to prototype (Idea Lab) and from prototype to product launch (ISHOW)

Over $1 Million IN SEED CAPITAL AWARDED

INNOVATIONS BENEFITTING

31 Countries AND COUNTING
The ASME Foundation’s

CAMPAIGN FOR

NEXT GENERATION ENGINEERS

DIVERSITY, EQUITY, AND INCLUSION IN THE ENGINEERING PROFESSION.

EQUITABLE ACCESS TO LIFE-CHANGING, SUSTAINABLE SOLUTIONS.

A $50 MILLION CAMPAIGN WHERE YOUR DONATION IS INVESTED IN POWERFUL PROGRAMS THAT ENABLE THIS TRANSFORMATION.
Meet Our

CAMPAIGN CABINET

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The work we do would not be possible without the support of more than 7,000 individual donors.
Campaign for Next Generation Engineers
Who Transform the World

AN EQUITABLE, SUSTAINABLE FUTURE IS POSSIBLE.
HELP US BUILD IT.

THE ASME FOUNDATION INVITES INDIVIDUAL, CORPORATE, AND INSTITUTIONAL DONORS TO INSPIRE AND ADVANCE THE NEXT GENERATION OF ENGINEERS AS THEY BUILD A BETTER FUTURE FOR US ALL.

CONNECT WITH US

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