



Engineers build the future.
Help us build theirs.



Vision

Engineers make our lives safer, more productive, and more enriching. The American Society of Mechanical Engineers (ASME) is dedicated to sparking a lifelong passion for engineering while nurturing brilliant, innovative solutions. We believe that the talent needed to create a better world must be harnessed from the full diversity of humanity.

History

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 engineering innovations for the greater good.

Engineers are visionaries and problem-solvers.

Today, clean water is readily available to 2.5 billion more people than it was a generation ago. Nearly a quarter of global electricity now comes from clean, renewable sources. Self-driving vehicles, 3D printing, and automated glucose monitors are engineering feats of the 21st Century.

But there is still so much
more to do.



So many problems can't wait.

Climate change, poor sanitation, COVID-19 and other diseases are among the critical challenges that pose an urgent threat to billions around the world.

Engineers can deliver powerful solutions to humanity's most pressing needs.

The possibilities are infinite.

The world needs more qualified engineers.

More diversity, because too few women and people of color are inspired to join the global engineering profession.

More interdisciplinary training to address complex global challenges.

More early-career support for socially conscious innovators supporting the advancement of ideas that support underserved communities.

But engineers alone cannot save the world. It takes all of us.





Campaign for Next Generation Engineers Who Transform the World

The Campaign for Next Generation Engineers will support a scalable arc of programs that enhance learning at every stage of an engineer's journey, from early inspiration to career engagement and leadership.

Three Pillars of Support

Education That Inspires

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



Ideas That Innovate

Nurturing breakthrough ideas to improve quality of life in underserved communities



Careers That Matter

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



Education That Inspires

What happens when a 12-year-old learns how to 3D-print her own sneakers?



Expanding Young Minds

ASME INSPIRE

STEM Readiness

Offered free to schools, ASME INSPIRE is a K-12 STEM education program that teaches students to become problem-solvers for good, opening a window to the opportunities in engineering.

A young woman with dark hair and eyes is looking intently at a molecular model. The model is held by a hand and consists of various colored spheres (white, black, blue, yellow, red, purple) connected by thin rods. The background is blurred, showing another person in a light blue shirt.

Education That Inspires

1,580

teachers at over 1,250 schools nationwide use ASME INSPIRE

360,000+

students have participated since the program's launch in 2014

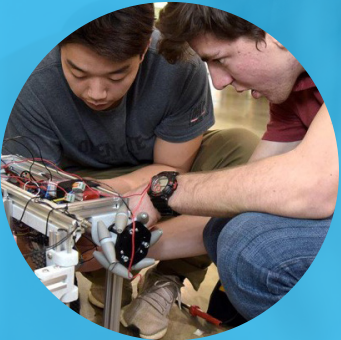
“ASME INSPIRE “changed the way I look at things—the world and how I can change my life and others’ through learning about new things in science, math, and engineering. It’s really cool.”

- Leylanie, 7th grader

71%

of participants indicate an interest in STEM careers and engineering fields

Education That Inspires



The DHL for moon deliveries?

At E-Fest, aspiring engineers met the people building it.
Now they want careers in space.

A background image showing a student with glasses and a grey shirt working on a project. The student is focused on a task, possibly assembling or repairing a device. In the background, another person is visible, holding a blue object. The overall scene is a workshop or laboratory setting.

Education That Inspires

ASME E-Fests® and ASME EFx® are hands-on interdisciplinary engineering experiences offering college-students opportunities to participate in skill-building workshops and competitions in areas such as Human-Powered Vehicles, Robotics, and 3D Printing while meeting with professional engineers.

E-Fest is held four times a year across the United States, India, and South America engaging more than 5,000 students.

“The competitions enhance our skills and push us to put our knowledge to maximum utility. It’s a room full of broad and bold ideas. It was an amazing experience.”
- ASME E-Fests® Participant



Education That Inspires

Making An Engineering Education Possible

Scholarships are awarded to deserving students in two-year, four-year and graduate degree programs in the U.S. and abroad helping aspiring engineers achieve their full potential.

“The thought of delaying my senior year indefinitely was heartbreaking. Thanks to the ASME Foundation Scholar Award, I was able to graduate with my B.S.in mechanical engineering.”

- Meredith Campbell, ASME Foundation Scholar

105

scholarships
awarded in
2020 totaling
more than
\$387,000

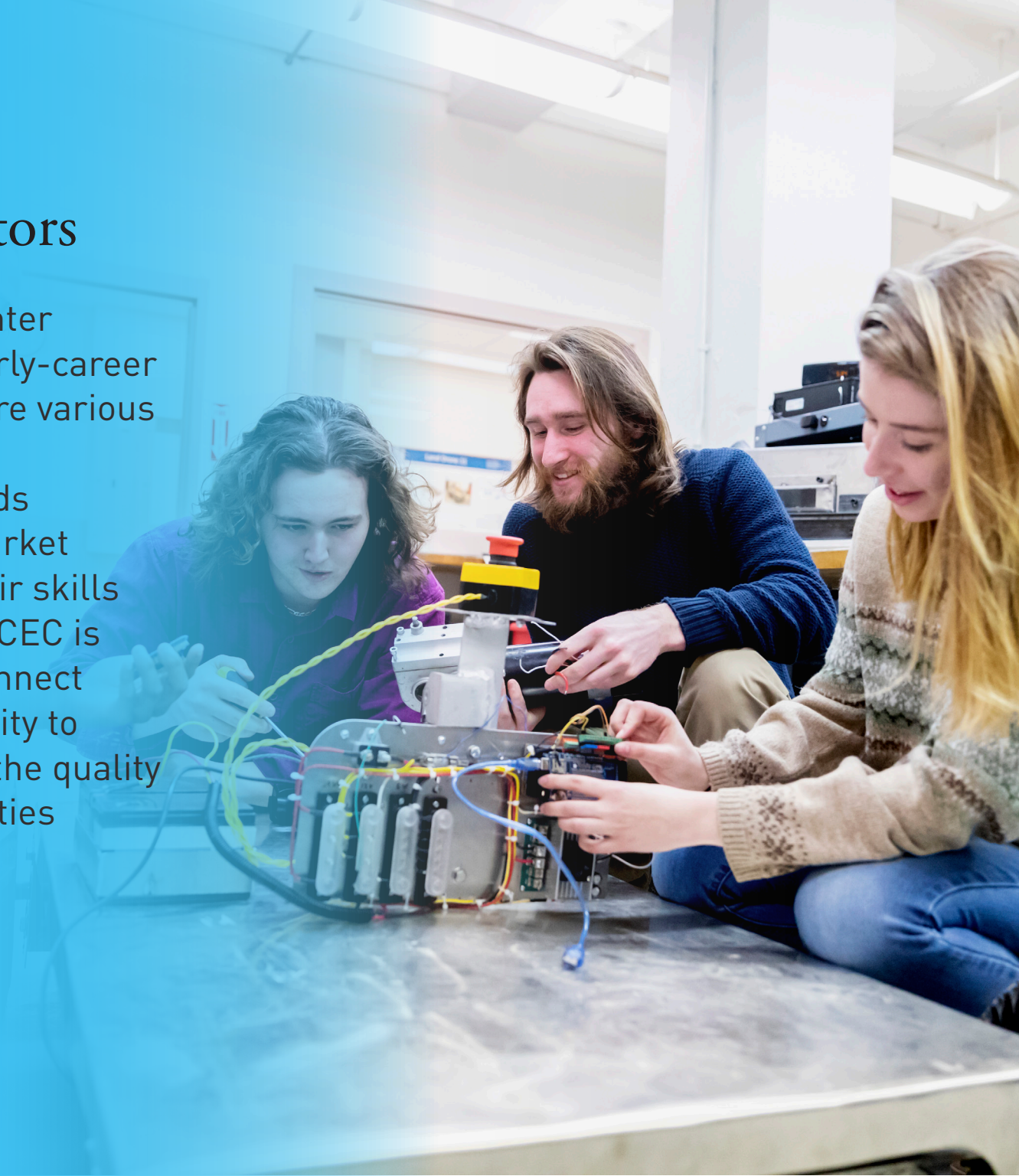
71%

awarded to
women and
underrepresented
minority students

Careers That Matter

Nurturing the Innovators

ASME's Career Engagement Center (CEC) is a digital platform for early-career engineers to simulate and explore various career and volunteer pathways, define and track progress towards long-term goals, understand market trends and how they can use their skills to positively impact society. The CEC is a space where engineers can connect with the broader ASME community to work collaboratively to improve the quality of life for underserved communities around the world.



Careers That Matter

Fellowships

ASME Federal Fellows

Fellows provide technical expertise to policymakers in the US government advising on legislation related to energy, manufacturing, research, infrastructure and technology. 130+ Fellows have been placed since the program's inception in 1976.

Career Engagement Research

Fellows provide a body of research on trends, opportunities, and requirements useful to early-career engineers seeking to deepen their engagement in the profession.

Graduate Teaching

Fellows, more than half of whom are women, are PhD candidates in mechanical engineering pursuing a career in higher education.

Engineering for Change (E4C) Research

Fellows receive support to delve into the market conditions encountered by engineers addressing critical quality-of-life challenges in underserved communities.

21 Countries Represented

*Bosnia | Lebanon | Australia | Uganda
| India | Brazil | Tunisia | Nepal
Panama | Paraguay | Kenya | Spain
| Venezuela | Guatemala | Canada
Ghana | Scotland | Chile | South Korea
| USA | Portugal | United Kingdom*



Ideas That Innovate

engineering^{FOR} CHANGE

The Engineering for Change (E4C) Digital Community is an open-access network and knowledge hub dedicated to sharing engineering advances in support of global development with over a million followers.

Serving a largely younger audience in the early stages of their careers, the E4C platform enables members to engage with peers, learn from experts, seek and share information, gain insights on technology successes, and connect to opportunities.

Ideas That Innovate

From Concept To Prototype

ASME ISHOW Idea Lab

Participants are invited to learn firsthand how the most promising, socially conscious engineering ideas move from concept to prototype. Leveraging ASME's global volunteer community, the Idea Lab helps innovators address technical issues as they invent products that improve quality of life in underserved communities.

The background image is a composite of two photographs. On the left, a woman with dark hair tied back, wearing glasses and a white lab coat, is focused on working on a circuit board. She is in a workshop or lab setting with various electronic components and tools visible. On the right, an elderly woman wearing a blue sari is seated and using a VR headset. She is holding the headset with both hands, looking into the lenses. The overall image has a blue tint.

Ideas That Innovate

Scaling World-changing Ideas

ASME ISHOW

Social entrepreneurs compete for seed grants and opportunities to connect with seasoned engineers and other experts for guidance on how to scale prototypes that address one of the United Nations Sustainable Development Goals into products that will be sustainable and have a positive social and environmental impact.



Humanity is depending on tomorrow's multidisciplinary engineers to make the world cleaner, healthier, more productive, and more sustainable. The Campaign For Next Generation Engineers fuels programs that inspire, engage, and empower a new generation of problem-solvers to build a brighter future for all of us.

A handwritten signature in white ink that reads "Thomas Costello". The signature is stylized with a large, flowing "T" and "C".

ASME Executive Director/CEO

CAMPAIGN FOR
NEXT
GENERATION
ENGINEERS
WHO TRANSFORM THE WORLD

ASME
FOUNDATION

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