

**THE
WAY
WE
SEE
IT**

AIChE
The Global Home of Chemical Engineers



**DOING
A WORLD
OF GOOD**

DOING A WORLD OF GOOD

The Doing a World of Good campaign funds five transformative priorities identified by the AIChE community as imperative to supporting and advancing the good chemical engineers bring to the world:

- **Attracting and Retaining the Best and the Brightest**
- **Education, Training and Career Development**
- **Research and Innovation**
- **Safety and Ethical Practice**
- **Changing Perceptions**

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One of the Doing a World of Good campaign's most far-reaching and life-changing programs was unveiled at the 2020 AIChE Virtual Gala. The **Future of STEM Scholars Initiative (FOSSI)** is the first industrywide equity, diversity, and inclusion initiative aimed at creating pathways for more underrepresented groups to enter and succeed in the profession.

With a first-year goal to underwrite 150 STEM scholars, FOSSI will provide \$40K scholarships to students pursuing STEM degrees at Historically Black Colleges and Universities (HBCUs), and connect these students to internships, leadership development, and mentoring opportunities at participating companies.

“We’re leading the way to a more inclusive future workforce.”

Founded by the American Chemistry Council (ACC), the American Institute of Chemical Engineers (AIChE), Chemours, and HBCU Week Foundation, FOSSI is a core initiative of the AIChE Doing a World of Good campaign and its All for Good: Engineering for Inclusion priority.

“We’re not simply standing at the threshold of a new age of engineering, we’re taking action and leading the way to a stronger, more inclusive future workforce for our industry,” said FOSSI Founding Chair Mark Vergnano, President and CEO, Chemours. FOSSI Founding Partner and ACC President and CEO Chris Jahn added, “By opening the doors of opportunity through programs like FOSSI, our ability to make a positive impact on the world is boundless.” We couldn’t agree more.



AS CHEMICAL ENGINEERS

WE SEE THE WORLD DIFFERENTLY

Where some see possibilities, chemical engineers see solutions that are tangible, feasible and change the world we live in for the better.

The AIChE Foundation through its Doing a World of Good campaign is focused on applying the very same vision to advance our profession.

We're opening doors for the next generation of engineers who share our vision and bring to it more diverse points-of-view.

With more than 800,000 STEM jobs that need to be filled over the next ten years, the opportunity for positive impact has never been stronger.

At AIChE, we believe in the changes that are being made, and we're at the forefront helping to make them.

On the next few pages, you'll see some of the ways we're making an impact — and you'll see the individuals and companies who have joined us.

WE ARE ENGINEERING CHANGE

In the six years since its launch, the Doing a World of Good campaign has almost doubled its \$15 million campaign goal. Thanks to the generous gifts from individual and corporate supporters, over \$27 million has been raised to fund programs that continue to push the boundaries of engineering.

RESEARCH & INNOVATION

The engineering landscape is evolving at an ever more rapid rate. The push for sustainable and innovative solutions providing food, water, energy, and consumer goods has never been greater, and the need for vaccines and new medicines has never been more urgent.

At AIChE, we're creating and funding programs like the **Langer Prizes for Innovation and Entrepreneurial Excellence**, which awards unrestricted grants of up to \$100,000 to researchers so they can continue making discoveries that open doors to new frontiers in areas including biotechnology, biomedical



María Eugenia Inda, 2020 Langer Prize Fellow

engineering, pharmaceutical engineering, and drug delivery.

Other programs that the Doing a World of Good campaign funds include the **Stephanopoulos Award for Metabolic Engineering**, the **Water Initiative** to help make the most of our water supply, and the **Energy Initiative** that helps engineers working in multiple disciplines network together and integrate their ideas to advance energy solutions.

At AIChE, by supporting innovation in chemical engineering, by funding programs that spark positive change, and by advocating for engineers who push the boundaries of the profession,



2019 Bayer Sponsored Faculty Workshop

we are, collectively, helping to reshape the world for the better.

SAFETY & ETHICAL PRACTICE

Doing a World of Good also means doing things safely and responsibly.

The **Undergraduate Process Safety Learning Initiative (UPSIL)** is a global program that improves and accelerates process safety



2019 Trinseo Sponsored Student Bootcamp

education at the university level, ensuring engineering students enter the workforce with a fully-operational knowledge of process safety practices.

Since launching UPSIL in 2015,



and HBCU Week Foundation, FOSSI removes barriers that obstruct success by providing scholarships that underwrite four-year tuition for students majoring in STEM at Historically Black College and Universities (HBCUs). Of equal importance, internships, mentorships, and leadership training are also made available through AIChE and its corporate partners, providing students the resources and support they need to graduate, enter, and succeed in the profession.

Of course, at AIChE, support for the underrepresented is not new to us. It's why we fund the **Rising Star Workshop** and **Leadership Equity**

around us would be unrecognizable without the contributions made by chemical engineers.

By opening the **2020 AIChE Virtual Gala** to all of AIChE



2020 AIChE Virtual Gala Selfie Wall

more than 182,615 (SACHe®) certificates were awarded to students worldwide, with 673 universities and 657 faculty members participating.

By teaching and advancing worldwide standards in process safety education, we're reducing incidents and accidents, as well as making the world more livable for everyone.

ALL FOR GOOD

All for Good: Engineering for Inclusion is a core priority of the Doing a World of Good campaign. With a goal to achieve parity in the workplace, we're funding important new programs to address gender, racial, and other imbalances in the engineering workforce. That means cultivating inclusion from the classroom to the boardroom — attracting, retaining, and advancing the next generation of engineers.

Identifying and encouraging talent begins early. The **AIChE K-12 STEM Showcase and Outreach Competition** introduces students from underrepresented communities to the boundless world of science and discovery.

Those who continue on this track can take advantage of the **Future of STEM Scholars Initiative (FOSSI)**. Founded by AIChE, the American Chemistry Council (ACC), Chemours,



2019 AIChE K-12 STEM Showcase

Program that help advance women and other underrepresented minority engineers toward executive level roles, as well as panel discussions such as **Unconscious Bias** that introduce key skills to create a more inclusive workplace.

It's also why we support and fund programming developed by **Women in Chemical Engineering**, **Minorities Affairs Committee**, **Disabilities Outreach and Inclusion Community**, and **LGBTQ+ & Allies**.

CHANGING PERCEPTIONS

Building trust through education and awareness is the surest way to help the public understand that the world

membership and the public, more people than ever before learned about the positive contributions being made.

Another way we're opening eyes is by creating and sharing videos. One such video, **"What Chemical Engineers Do,"** ignited interest in our profession for a whole new generation — and went viral along the way with nearly 200,000 views on YouTube.

Of course, virtual gatherings and videos are not our only means of changing perceptions. The **Raj and Kamla Gupta Doing a World of Good Podcast Series** features prominent chemical engineers who take us deep into their world as they describe their latest contributions.

More than ever, AIChE is committed to supporting chemical engineering and the engineers who never stop inventing, innovating, and reimagining ways to make our lives better.



CORPORATE HONOR ROLL

\$27MM

Total funds raised since campaign launch

6,500+

Individuals and companies participating since campaign launch

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\$5,000,000 and up



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\$2,000,000-\$4,999,999



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2019 Annual LGBTQ+ & Allies Ice Cream Social

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**“The amount
of support that
AIChE offers
is incredible –
and so needed
by engineering
students.”**

— Ozem Onye-Franklin

2019, 2020 AIChE Minority
Scholarship Award Recipient

**BE
THE
CHANGE**

Make a donation. Double your impact.

Thanks to the generosity of Drs. Arindam and Gopa Bose, through May 31st, your gift will support AIChE student programming and be doubled up to \$25,000.

Donate today at aiche.org/bethechange

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