

# Transform a Student's Future

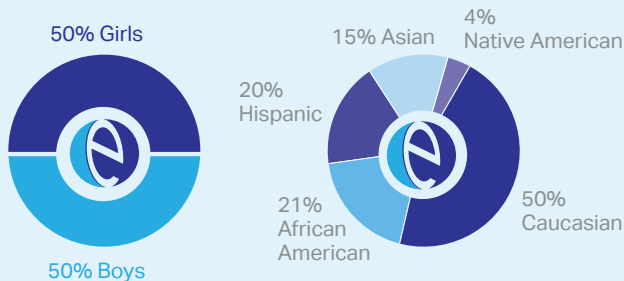


## 5.5M Students Engaged in a STEM Experience



171

Average number of students reached per educator or volunteer



“DiscoverE resources allow me to engage further with students and ALSO with families. If families aren't on board with their child being an engineer, they are way less likely to pursue that career.”

— Nancy Coddington, Engineers Week Volunteer, NY

## 62% DiscoverE Educators Teach in Title I Schools

8 out of 10 students knew what an engineer did after attending a DiscoverE Engineers Week event.



98% students involved in DiscoverE's Girl Day report they are now interested in doing engineering activities or studying engineering.

“We love using your resources to talk to students about engineering and help educators understand all of the resources that DiscoverE has to offer.”

— Abigail Reese-Kelley, CERM Legacy Foundation, GA

## \$0 Cost per Student to Participate in DiscoverE Programs



9 out of 10 educators and volunteers agree it is important to have access to DiscoverE's free resources to engage students in STEM.

“I loved that both my artsy and nerdy side could be expressed throughout the Future City project.”

— 7th Grade Student, New Jersey

## 83 Corporate and Nonprofit Partners

YOUR LOGO HERE!

“DiscoverE provides hands-on joyful opportunities for students to engage in engineering design and STEM learning. With DiscoverE's programs, students are able to be engineers and design solutions to some of our most pressing national challenges all while working in teams, building STEM skills and having fun!”

— Carly Roberts, Overdeck Family Foundation

## Why This Matters

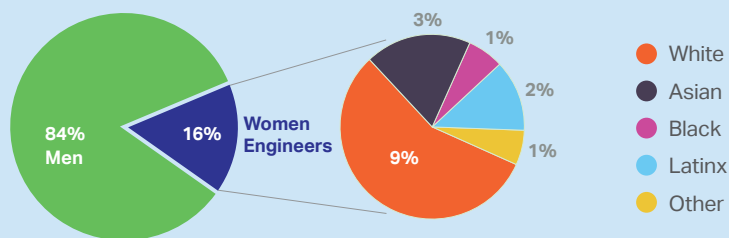
- By 2025, the demand for STEM professionals will outstrip supply and **over 1 million STEM jobs will be unfilled.**<sup>1</sup>
- STEM skills are relevant in all industries and depend on an increasing level of math and science literacy.

### The need to interest students in STEM early is well documented.

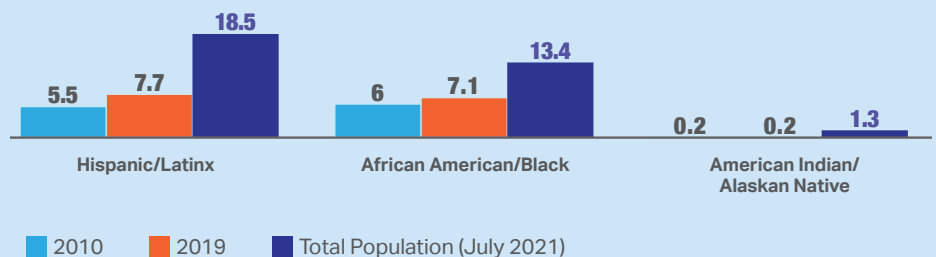
- Students fall out of STEM pathways as early as 4th grade.
- Children who are introduced to STEM early, set the stage for their college curriculum; score higher on the SAT; need less remedial classes; and are most likely to pursue a STEM career with confidence.<sup>3</sup>



2019 Engineering Workforce by Gender<sup>4</sup>



Demographic Makeup of the STEM Workforce (%)<sup>4</sup>



## Why DiscoverE?

DiscoverE believes every student in the world deserves free STEM and engineering experiences.

- We are the founder of one of the first STEM programs in the US, **Engineers Week**, which occurs every year.
- DiscoverE programs are used by thousands of organizations and individuals around the world.
- It is our intent to remain no cost, true to our guiding principle of **Access for All**.



<sup>1</sup> Xue, Y and Larson, R. 'STEM Crisis or STEM Surplus? Yes and yes'. Monthly Labor Review. May 2015. <https://www.bls.gov/opub/mlr/2015/article/stem-crisis-or-stem-surplus-yes-and-yes.htm>  
<sup>2</sup> Bureau of Labor Statistics. <https://www.bls.gov/emp/tables/stem-employment.htm>  
<sup>3</sup> Marak, U. 'Why STEM education should be introduced early on for children.' Mand Labs: step by step. May 5, 2020. <https://www.mandlabs.com/why-stem-education-should-be-introduced-early-on-for-children/>  
<sup>4</sup> Georgetown University Center on Education and the Workforce, Mission Not Accomplished: Unequal Opportunities and Outcomes for Black and Latinx Engineers, 2021.

## By 2030, DiscoverE will:

- Create 10 million additional K-12 engineering experiences.
- With a focus on ensuring 5 million are underrepresented students.



## How will we accomplish this bold goal?

### • Engineers Week (1951)

DiscoverE's signature program is a year-round commitment to celebrate engineers, technicians, and technologists and to engage millions of students around the world in STEM.

### • Future City (1992)

An international engineering and tech competition where 67,161 middle school students strengthen their STEM skills to imagine, research, design, and build cities of the future.



### • Introduce a Girl to Engineering (2001)

Volunteers, educators, and others act as role models, facilitate STEM activities, and show 500,000 girls how engineers change our world each year.

### • World Engineering Day (2016)

With partners UNESCO and WFEO, DiscoverE leads the international movement to celebrate engineers' achievements and improve the public understanding of engineering and technology.

### • Chats with Change Makers (2020)

Each month DiscoverE's high school student host interviews STEM professionals. 186,538 viewers (live and on-demand) tuned in from classrooms, after-school programs, libraries, and homes.

## Stronger Together

DiscoverE has built an active community of organizations, volunteers and educators who use our free programs and services including:

- Robust career library featuring 15 different STEM fields
- Growing collection of 185 STEM Activities
- Well-attended volunteer and educator trainings
- Original research examining proven ways to engage students and effective engineering messages



**3.4B**  
Impressions

People reached with positive messages about engineers and engineering via stories or posts about a DiscoverE resource or program.\*

\* 2020 analysis performed by Sayles & Winnikoff.

## About DiscoverE

DiscoverE is a nonprofit dedicated to providing global resources, programs, and connections between K-12 students and engineers and STEM professionals. We have a special focus on reaching girls and underrepresented and underserved students. DiscoverE is the backbone organization behind some of the earliest and most broadly adopted STEM and engineering programs available. They are *free* to all students and it is our intent to remain no cost. DiscoverE is supported by generous donors including the Bechtel Corporation, Bentley Systems, Collins Aerospace, ExxonMobil, NCEES, Northrop Grumman Foundation, the Overdeck Family Foundation, Project Management Institute, Shell Oil Company, TE Connectivity and others.