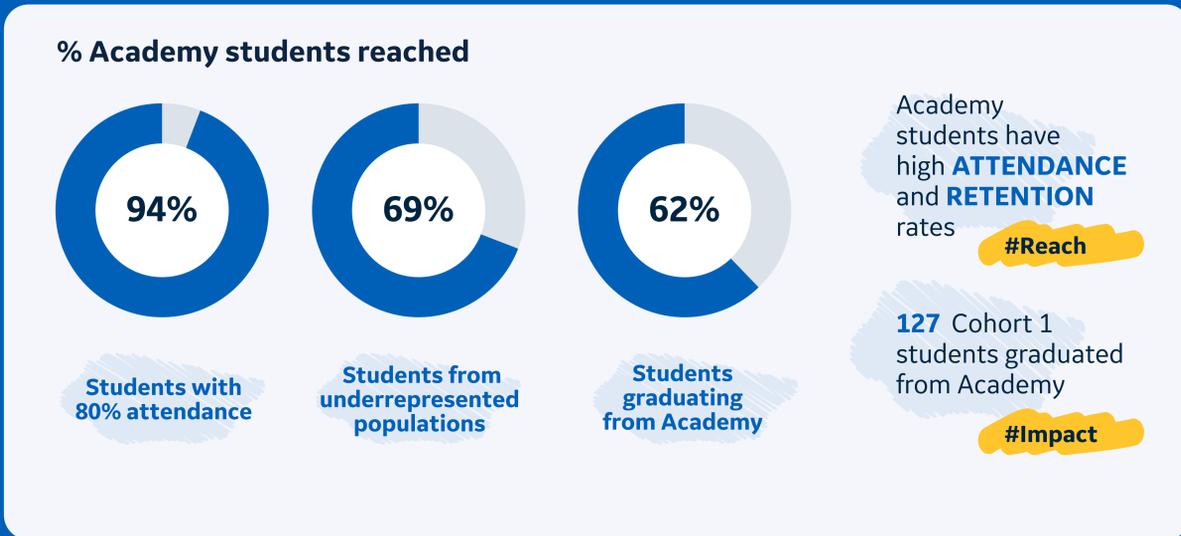


ENGINEERING ACADEMY



2022-2024

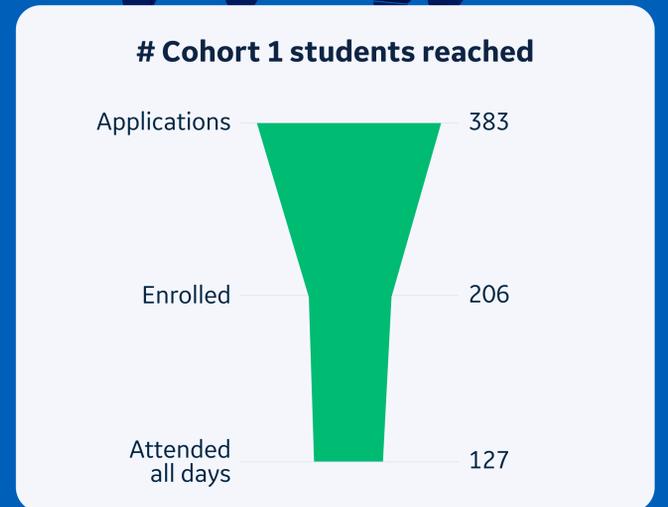
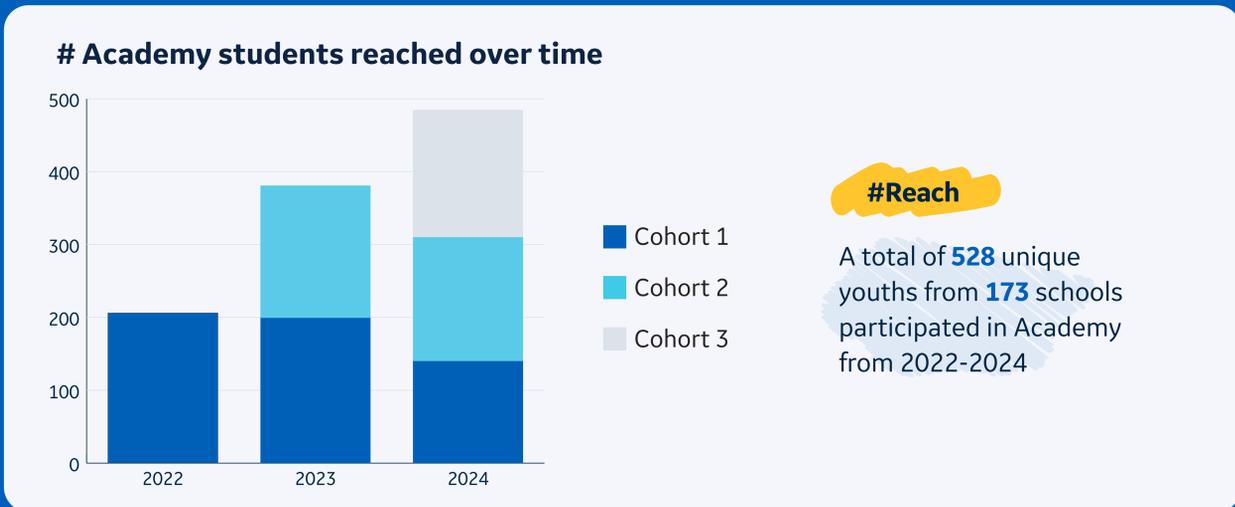
Over the course of three years, students (ages 15 to 18) in Engineering Academy learn to think and act like engineers and prepare to advance to post-secondary education. With 220 hours spent outside of school, Academy learners explore a series of immersive design challenges, career coaching, and college-readiness workshops and gain the skills they need to build an engineering identity and career. From 2022-2024, Next Engineers served students in four core cities: Cincinnati, OH (USA), Greenville, SC (USA), Johannesburg (South Africa), and Staffordshire (UK).



#GEConnection

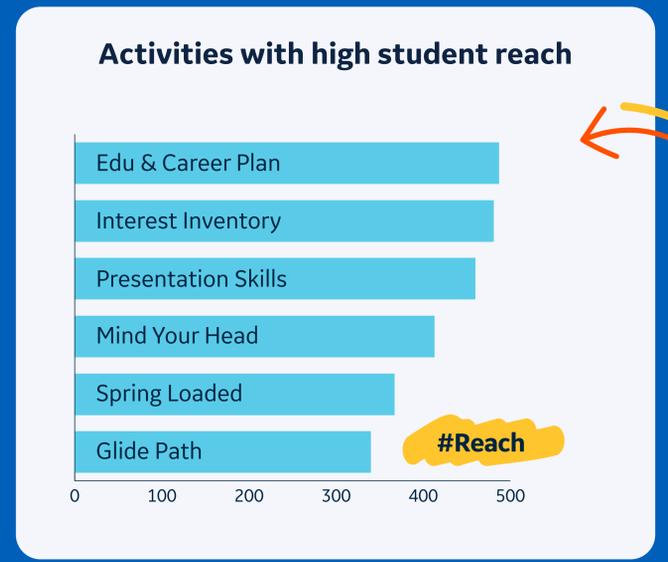
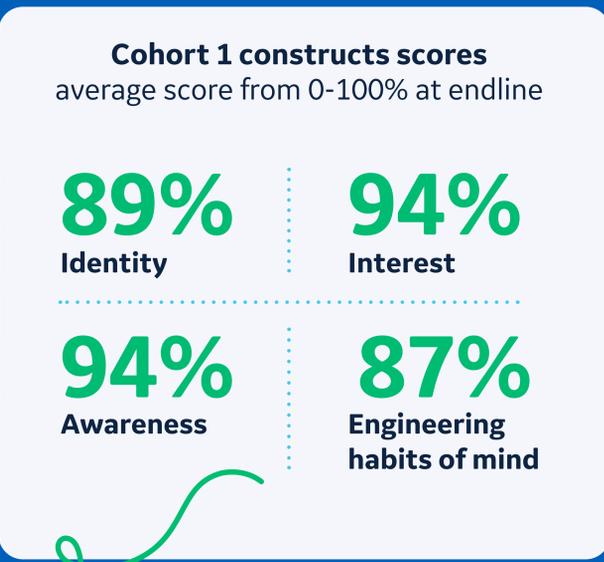
“ I appreciated the fact that the engineer...was a Black man; that he had such a high and important role. That really felt powerful to me.”

Engineering Academy Student **#RoleModel**



“ The programme has helped him to develop a growth mindset and explore and express his ideas confidently. He is fascinated with how engineers work and how they help communities.”

Engineering Academy Parent **#Impact**



ENGINEERING CAMP

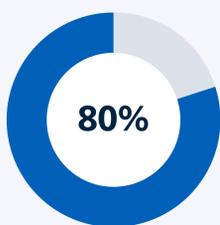
2022-2024



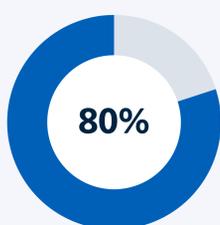
In Engineering Camp, students (ages 14 to 15) are introduced to the engineering process through a week-long camp experience. Experienced engineering faculty, staff, GE volunteers, and business leaders interact with campers as they complete design challenges inspired by real-world scenarios, such as building bridge prototypes and creating their own pressure-powered cars. From 2022-2024, Next Engineers served students in four core cities: Cincinnati, OH (USA), Greenville, SC (USA), Johannesburg (South Africa), and Staffordshire (UK).

% Camp students who agree on engineering constructs

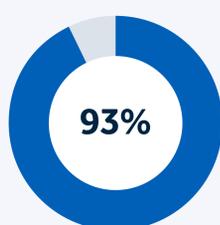
#Impact



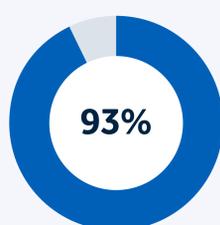
Awareness



Identify



Interest



Engineering Habits of Mind

#EngineeringHabitsOfMind

“...I am proud of the way I communicated with my group members, the way I presented on my last day, the way I contributed growth in my life...and the way I pushed out of my comfort zone.”

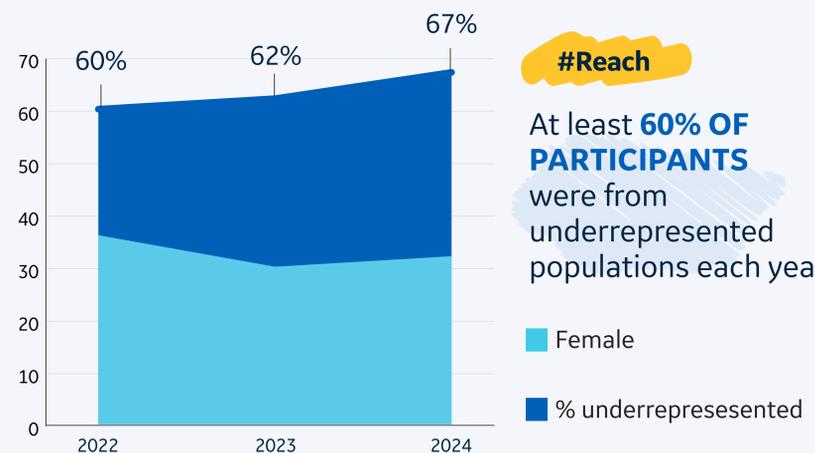
Engineering Camp Student

Camp students from underrepresented populations in attendance

#Reach



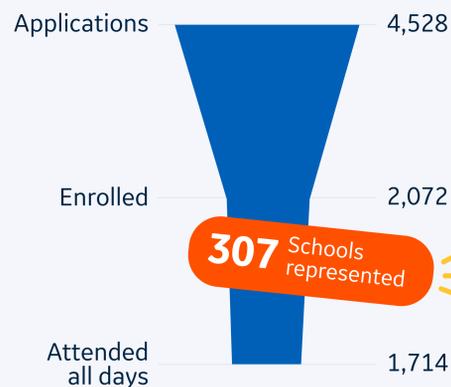
% Camp students from underrepresented populations (including % female)



#Reach

Camp students reached

#Reach



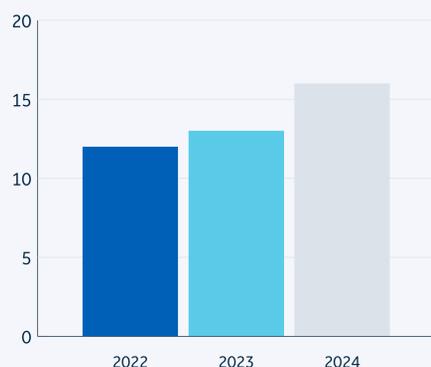
#GEConnections

“I loved [my son] being around smart, motivated peers and the mentoring provided by the business leaders and student-counselors.”

Engineering Camp Parent

#RoleModel

% Camp students referred by friend



NEXT ENGINEERS

For more information, visit our Parents and Volunteers data dashboard at www.NextEngineers.org



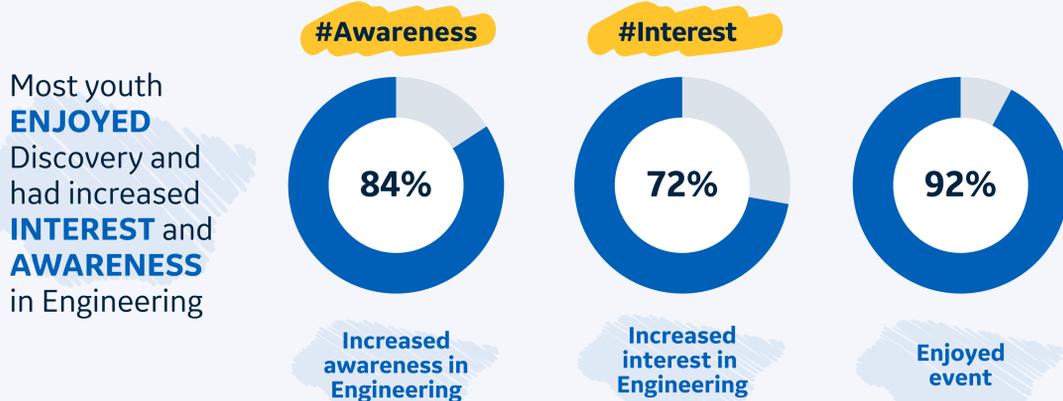
ENGINEERING DISCOVERY



2022-2024

In Engineering Discovery, students (ages 13 to 14) build awareness about what engineers do through a variety of short, exploratory sessions led by GE engineers. Volunteers deliver creative, hands-on activities in the classroom or community to inspire young people and expand their understanding of what engineering is all about. From 2022-2024, Next Engineers served students in four core cities: Cincinnati, OH (USA), Greenville, SC (USA), Johannesburg (South Africa), and Staffordshire (UK).

% Discovery student survey responses

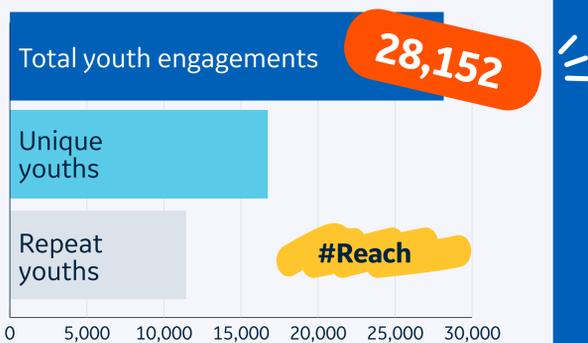


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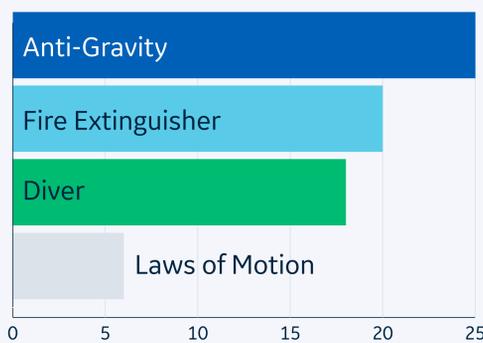
“It was interesting to see the facilitators allowing the learners to join the stage and do the demonstrations, because some thought that what was happening was just pure magic.”

Engineering Discovery Community Partner

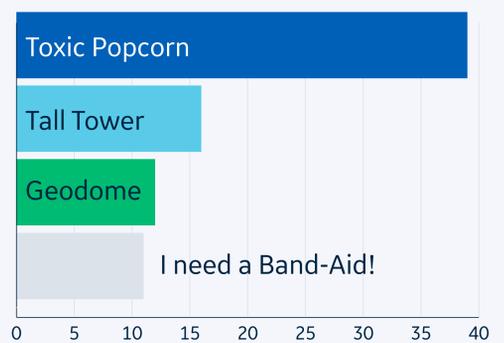
Discovery students reached



Top demonstration activities



Top hands-on activities

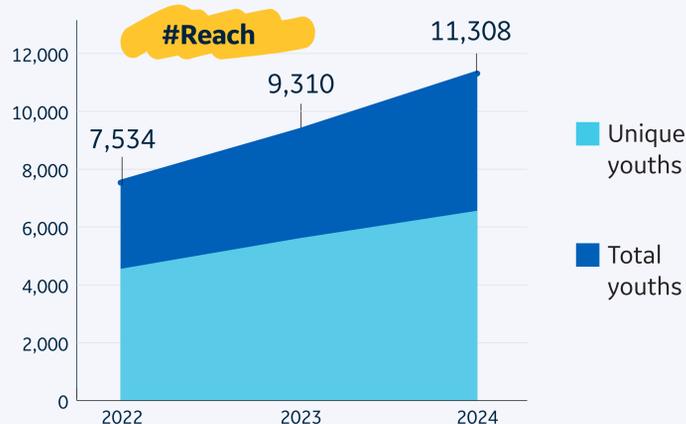


#Impact

“I liked working and socializing as a team and using my brain to think about possible solutions.”

Engineering Discovery Student

Discovery students reached over time



Discovery participation **INCREASED BY 50%** from 2022 to 2024

209 Community partners implemented

Discovery events with students from **79** schools



NEXT ENGINEERS

For more information, visit our Parents and Volunteers data dashboard at www.NextEngineers.org

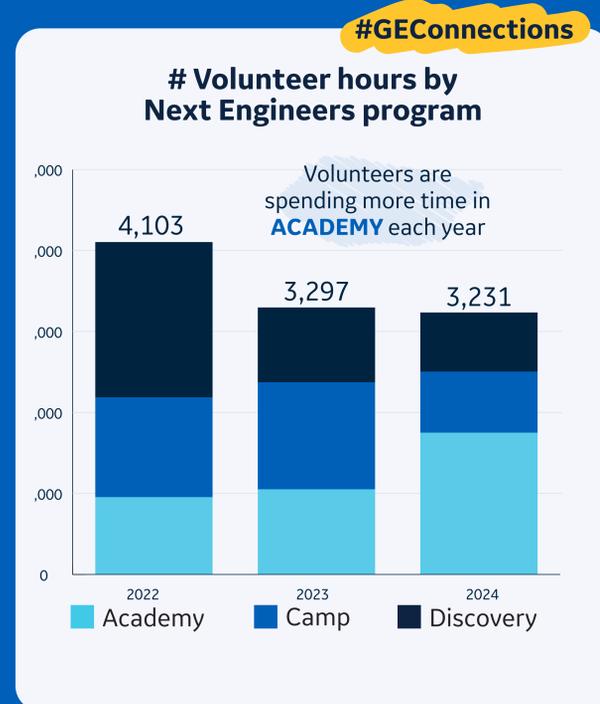


VOLUNTEERS

2022-2024



Next Engineers relies on volunteers from GE Vernova and GE Aerospace to bring engineering to life for its students. By having the opportunity to meet real professionals, ask questions, and work alongside these volunteers, students begin to see tangible career paths for themselves. From 2022-2024, Next Engineers served students in four core cities: Cincinnati, OH (USA), Greenville, SC (USA), Johannesburg (South Africa), and Staffordshire (UK).



1,518

GE Aerospace and GE Vernova Employees Trained

247

GE Aerospace Employees Trained

46

Parents Participated

GLOBAL DISCOVERY

In Global Discovery, volunteers from GE Aerospace bring Discovery activities to new places beyond the Next Engineers core cities. Students around the world have a chance to engage with engineers and learn from engineering activities. Employees from GE Aerospace worldwide also engage in professional development opportunities via virtual trainings. From 2022-2024, Next Engineers Global Discovery served students in Ethiopia, Massachusetts, New York, North Carolina, Ohio, and Texas.

#Reach

319

Youths Participated



#GEConnections

“I really enjoyed getting to visit younger students interested in engineering. It was a great experience to look back on where I came from as well as present myself to them as a potential for their future.”

GE Vernova Volunteer

#RoleModel



NEXT ENGINEERS

For more information, visit our Parents and Volunteers data dashboard at www.NextEngineers.org

