

NEXT ENGINEERS

Building a world that works

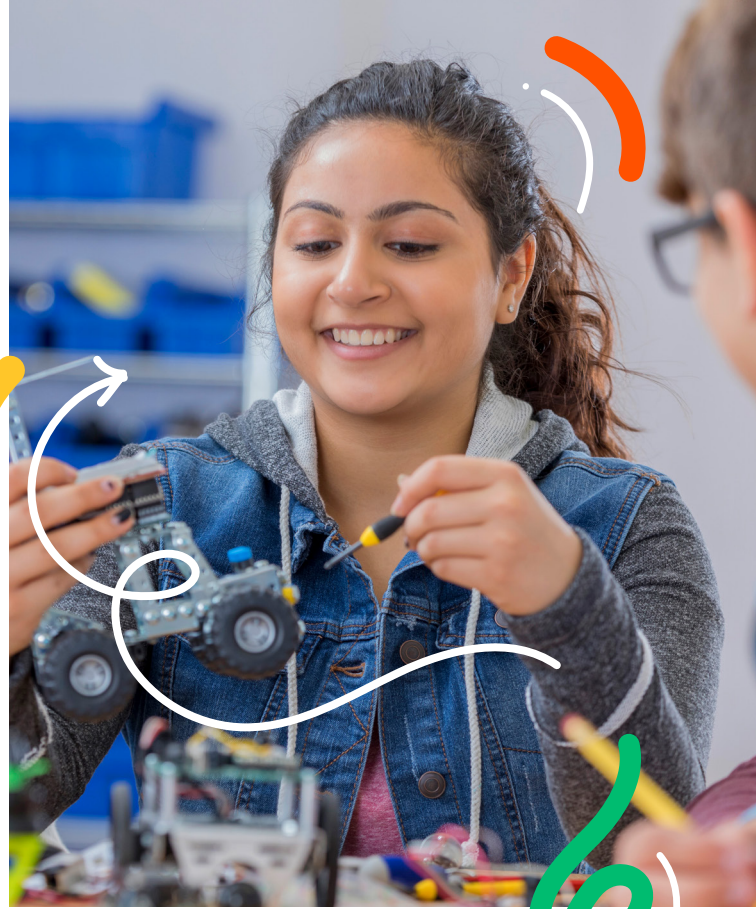
Engineers build worlds. All kinds of worlds.

Engineers build jet engines that ensure safe and sustainable travel, design portable medical equipment to reach more patients around the world, and create wind turbines that generate cleaner energy.

And we need a more diverse engineering profession to bring new perspectives, experiences, insights, solutions, and greater innovation to today's challenges. And tomorrow's.

This work begins in Greenville, South Carolina.

GE has been a part of the Greenville community for over 50 years, creating opportunities for all. *Next Engineers* brings new, inspiring programs to engage diverse students aged 13-18, in 25 cities to spark their interest in engineering build worlds that haven't even been thought of yet. As one of four inaugural locations, Greenville is at the forefront of technology for decades to come.



Let's build the world we want, together. Learn more at www.NextEngineers.org.

IMPACT IN
GREENVILLE

\$5M
community
investment

3,500
students
reached

36,000 Engineering and College
Readiness Educational Hours

Thousands of GE Volunteer hours

Building the Future

Youth tinker, explore, and imagine. By introducing them to engineering concepts and career opportunities, *Next Engineers* will unlock their potential as the next generation of problem solvers.

Around the world, *Next Engineers* seeks to engage 85,000 youth in the next 10 years, which will:

- ✓ **Address Global Challenges.** Engineers are creating blueprints for a world that works and engineers from diverse backgrounds can bring the varied perspectives we need to address the world's most pressing challenges – from sustainable flight to quality healthcare and clean energy.
- ✓ **Light Pathways.** Anyone who wants to be an engineer and shows aptitude for engineering should be able to become an engineer. *Next Engineers* provides opportunities and support for all participants.
- ✓ **Change the Narrative About Engineering.** Many youth have preconceived notions about who can become an engineer, or what engineers do. By introducing students to engineering role models from diverse backgrounds, we are inspiring more students to pursue engineering careers and building a more diverse engineering workforce.



Engaging the Next Generation

Through three core programs, *Next Engineers* guides students along the path to engineering careers.

Students' participation will be supported and monitored by professionals, using a balance of technology-enabled and hands-on learning resources.

Students completing the Engineering Academy and who are accepted to a post-secondary education engineering degree program will be awarded a **\$20,000 scholarship**.



NEXT ENGINEERS PROGRAMS



Engineering Discovery (Ages 13-14)

Youth build awareness about what engineers do through a variety of short, exploratory sessions. Volunteers deliver creative, hands-on activities in the classroom or community to inspire youth and expand their understanding of what engineering is all about.



Engineering Camp (Ages 14-15)

Students are immersed in the engineering process through a week-long camp experience. Students interact with experienced engineering faculty, staff, and business leaders as they complete design challenges inspired by real-world scenarios, building an identity as aspiring engineers.



Engineering Academy (Ages 15-18)

Over three years, future engineers learn to think and act like engineers and prepare to advance to post-secondary education through the Academy. With over 80 hours per year outside of school, the Academy includes a series of immersive design challenges, career coaching, and college-readiness workshops to equip diverse groups of youth with the skills they need to build an engineering identity and career.

- Engineering Design Thinking
- Creativity
- Problem-solving
- Teamwork and Collaboration
- Making and Building
- Communication

Thinking Globally, Working Locally

Greenville is one of four inaugural locations for *Next Engineers*. With full funding from the GE Foundation and technical support from FHI 360, Clemson University will coordinate and deliver the program in Greenville.

Clemson brings to the table nationally recognized, high-impact STEM diversity programming through PEER & WISE, as well as comprehensive, holistic college preparation and readiness for underrepresented populations and women in STEM throughout the Upstate of South Carolina. The local GE businesses, GE Renewable Energy and Gas Power, will volunteer engineering expertise, career exposure, and structured learning activities. Together, we are investing in Greenville and Upstate youth.

Join the GE Foundation in our mission to inspire the next generation of engineers: youth from around the world who will be the innovators, problem-solvers, and leaders of tomorrow.

Learn more about *Next Engineers* at www.NextEngineers.org or NextEngineers.Greenville@ge.com.

