

NEXT ENGINEERS

Building a world that works

Engineers build worlds. All kinds of worlds.

Engineers build jet engines that ensure safe and sustainable travel, create wind turbines that generate cleaner energy, and much more.

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

This work begins in Staffordshire, U.K.

GE Vernova has been a part of the Staffordshire community for over 60 years, creating opportunities for all. *Next Engineers* brings new, inspiring programmes to engage young people, aged 13-18, to spark their interest in becoming engineers and ensuring Staffordshire 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 STAFFORDSHIRE

\$3.5M USD
community investment

3,500 students
reached

36,000 Engineering and College Readiness Educational Hours

Thousands of GE Vernova volunteer hours

Building the Future

Young people play, explore, create, and imagine. By introducing them early 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 43,000 young people by the end of 2030, which will:

- ✓ **Address Global Challenges.** Engineers are creating blueprints for a world that works, and engineers from diverse backgrounds can bring varied perspectives to help address the world's most pressing challenges – from clean energy to the future of flight.
- ✓ **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 young people have preconceived notions about engineers. By introducing students to engineering role models from diverse backgrounds, *Next Engineers* helps students realize that anyone can pursue a career in engineering.



GE Aerospace
Foundation

Engaging the Next Generation

Through three age-dependent core programmes, *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 our Engineering Academy programme, and who are accepted into higher education for engineering degrees or engineering apprenticeship opportunities, **will be awarded a scholarship.**



NEXT ENGINEERS PROGRAMMES

Engineering Discovery (Ages 13-14)

Young people build awareness around what engineers do through a variety of short, exploratory sessions. 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.



Engineering Camp (Ages 14-15)

Students are immersed in the engineering process through a week-long camp experience during school holidays. Students interact with experienced engineering faculty, staff, and business leaders as they complete design challenges solving real-world problems, 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 into further 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 young people 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

Staffordshire, UK, is one of four inaugural locations for *Next Engineers*. With full funding from the GE Aerospace Foundation and technical support from FHI 360, The Inspirational Learning Group (TILG) will coordinate and deliver the program in Staffordshire.

TILG launched in 2013 to provide a range of entrepreneurial challenges and educational programmes to help young people to make informed decisions about their futures and to provide them with the skills required to begin their journey to career success. The local GE business, GE Vernova, will provide engineering expertise, career exposure, and structured learning activities. Together, we are investing in Staffordshire's young people for the future of our world.

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

Learn more at www.NextEngineers.org or contact us at NextEngineers@tilg.co.uk.