

NEXT ENGINEERS

Unlocking potential to invent the future

Lifting up people to solve tomorrow's problems.

As we work to invent the future of flight, engineers from various backgrounds bring new perspectives, experiences, insights, solutions, and greater innovation to address pressing challenges.

The GE Aerospace Foundation is committed to developing future generations of engineers and innovators through its Next Engineers program. Next Engineers is an educational program focused on engaging students, aged 13–18, in engineering disciplines. We are excited to launch our Next Engineers expansion location in New York's Capital Region in the United States.

New York's Capital Region has a long history of groundbreaking engineering and innovation, from the construction of the Erie Canal, to the founding of the General Electric Research Laboratory by Thomas Edison, to biomanufacturing, to the growth of the region as a global hub for semiconductor and artificial intelligence research, development and fabrication. The Next Engineers program will play a critical role in ensuring New York has the pipeline of skilled engineers necessary to maintain its high-tech leadership for decades to come.

For more than 130 years GE – and now GE Aerospace – has been a key part of the New York Capital Region community, and we look forward to supporting communities we work in through the GE Aerospace Foundation.



Let's build a world that works, together. Learn more at www.NextEngineers.org.

**NEXT
ENGINEERS'
IMPACT IN
NEW YORK**

4,000
students
reached

18,000 of estimated hours spent in the program

Thousands of GE Aerospace Volunteer hours

Inventing 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 and collaborative innovators.

Around the world, Next Engineers seeks to engage 43,000 by the end of 2030, which will:

- ✓ **Address Tomorrow's Challenges.** Engineers are creating blueprints for the next generation of technology. Engineers from different backgrounds bring the variety of perspectives and ideas we need to address the world's most pressing challenges.
- ✓ **Light Pathways.** Anyone who wants to be an engineer and shows aptitude for engineering should be able to become an engineer. Next Engineers provides equal opportunities and support for all participants.
- ✓ **Change the Narrative about Engineering.** Many young people have preconceived notions about who can become an engineer, or what engineers do. By introducing students to engineering role models, we are breaking down barriers and inspiring more students to pursue engineering careers.

Unlocking Potential

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.

There are two key programs students can engage in:



NEXT ENGINEERS PROGRAMS

Engineering Discovery (8th and 9th grade)

Young people build awareness around what engineers do through a variety of short, exploratory sessions. Partners and 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 Academy (10th grade)

Over two years, students learn to think and act like engineers and prepare to advance to post-secondary education. With over 180 hours over two years outside of school, the Academy includes a series of immersive design challenges, career coaching, and employability skills workshops to equip youth with the skills they need to build an engineering identity and career. Engineering Academy is open to students who are in 10th grade. Students who complete the program and enroll in a post-secondary engineering degree program will receive a partial scholarship from the GE Aerospace Foundation.

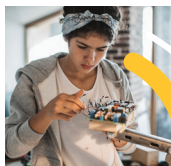
- Engineering
- Design Thinking
- Creativity
- Problem-solving
- Teamwork and Collaboration
- Making and Building
- Communication



Thinking Globally, Working Locally

The New York Capital Region is one of seven global locations for Next Engineers. With full funding from the GE Aerospace Foundation and technical support from FHI 360, the University at Albany in partnership with NY CREATES and the Museum of Science and Innovation (miSci) will coordinate and deliver the local program.

The University at Albany, through its College of Nanotechnology, Science, and Engineering, has for decades been a critical research and workforce development partner in the Albany area. NY CREATES and miSci will join the University at Albany to inspire the region's next generation of engineers and innovators.



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@albany.edu.