

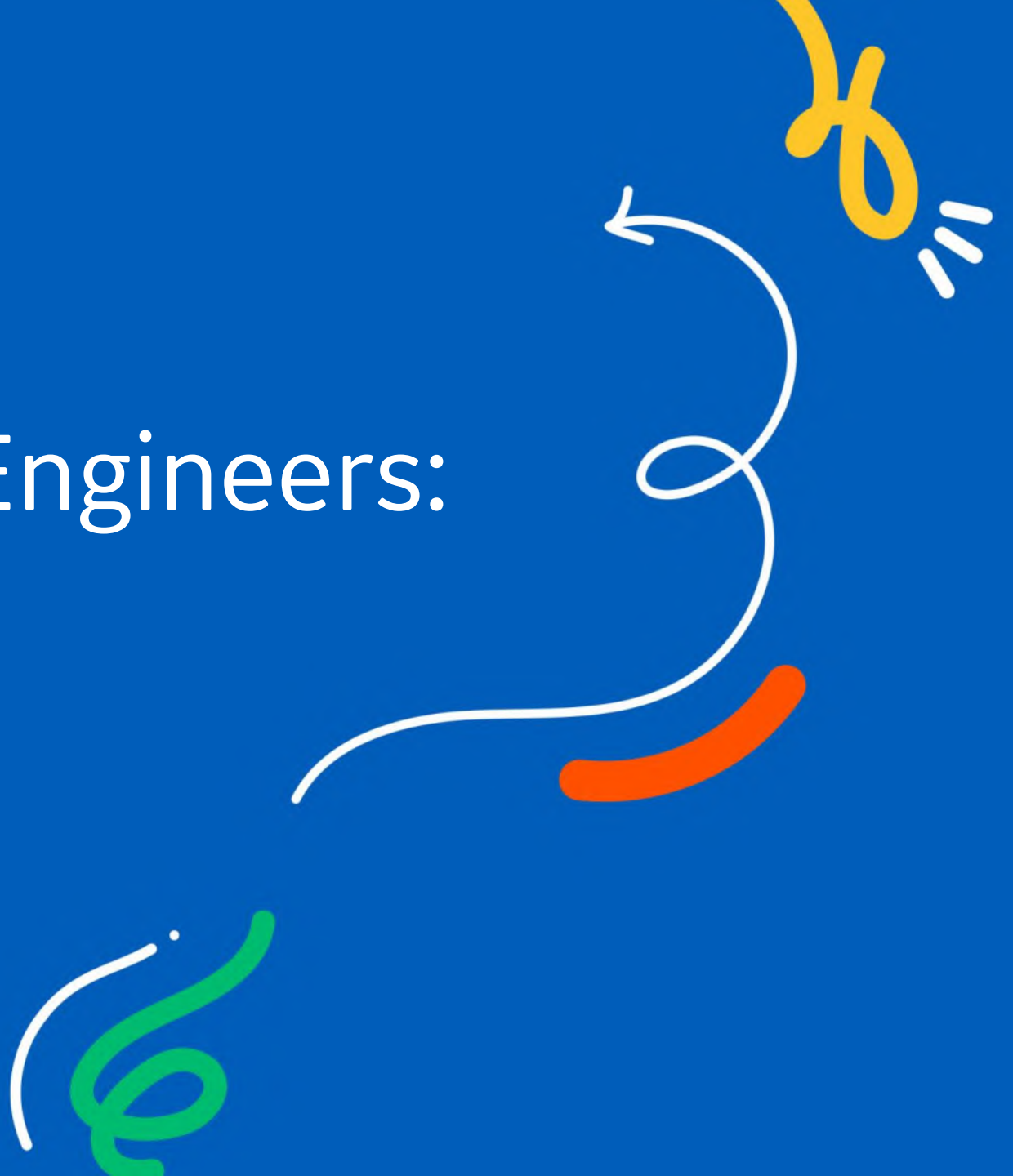
NEXT ENGINEERS

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# Welcome to Next Engineers: Engineering Camp



GE Foundation



# Webinar Agenda

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- Introductions
- What is Next Engineers? Why Stem?
- Engineering Camp Overview & Schedule
- Student Eligibility & Selection
- Application Process
- Frequently Asked Questions
- Questions from Audience



# Next Engineers – Engineering Camp Cincinnati Planning Team



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10 years of experience in educational programming and teaching



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Experience in mechanical design and engineering management



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Experience in mechanical design, additive manufacturing, and talent development



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*Services Engineering, GE Aviation*

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16 Years of GE Service

Experience in engineering, supply chain and development & test



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# What is Next Engineers?

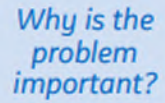
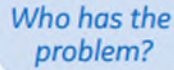
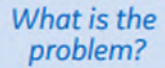
**BOSTON, MASS.– October 13, 2021 – Today, GE launched *Next Engineers* across three countries in four inaugural cities: Cincinnati, Ohio and Greenville, South Carolina in the U.S., along with Stafford, U.K. and Johannesburg, South Africa.** *Next Engineers* represents a commitment of up to \$100 million over ten years, dedicated to increasing the diversity of young people in engineering. *Next Engineers* is a global college-readiness program that will provide students ages 13 to 18 (grades eight to 12) with hands-on exposure to engineering concepts and careers and ultimately award scholarships to pursue engineering degrees. By 2030, the program aims to reach more than 85,000 students in approximately 25 cities globally.



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# What is Next Engineers? Why STEM?

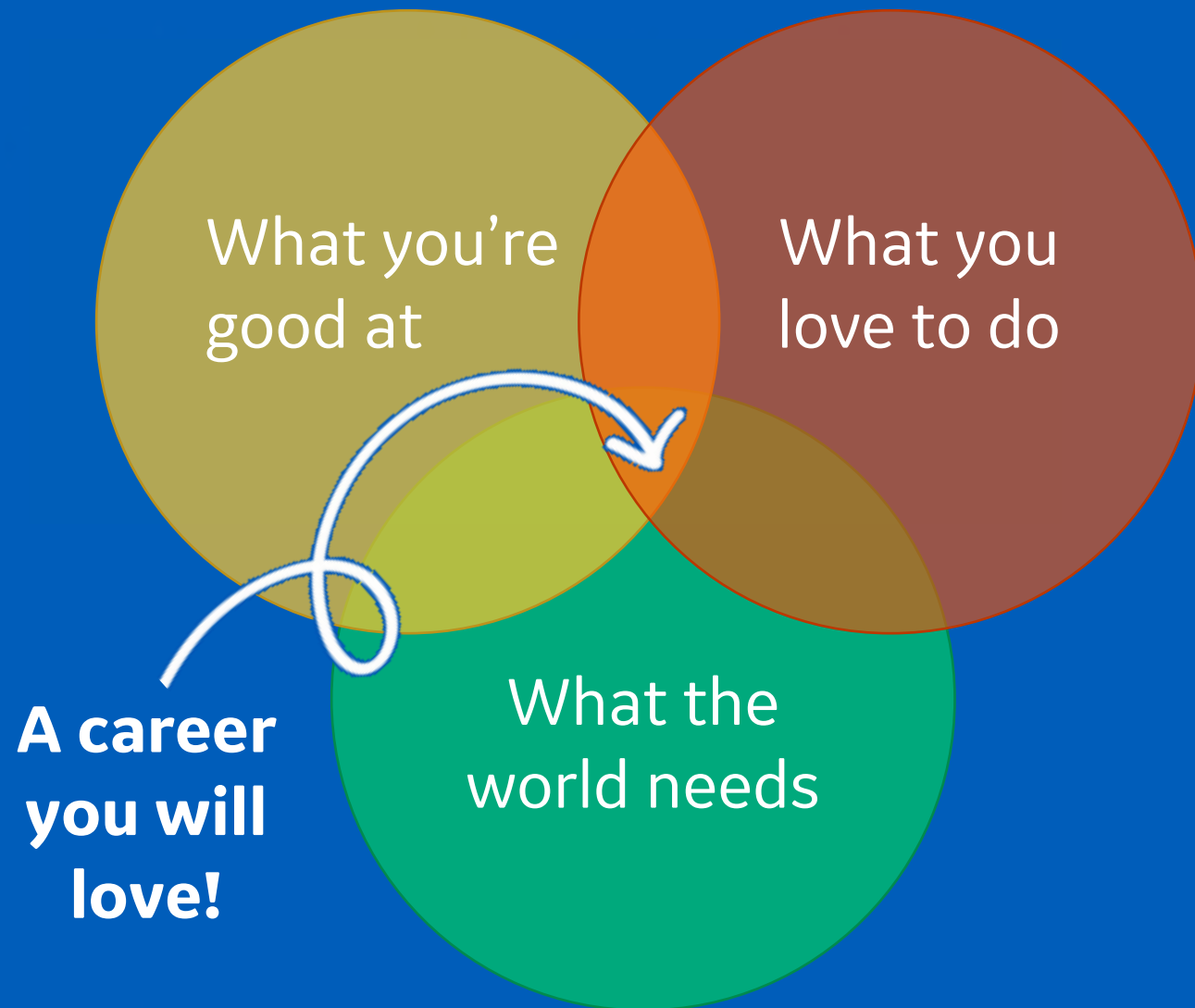


A collage of scientific and mathematical symbols on a light blue background. It includes the chemical formula  $H_2O$ , the equation  $E=mc^2$ , a blue hand holding an orange cube, a 3D cube made of smaller cubes, a line graph, a DNA helix, and a red swirl.

- ✓ Are you curious about the world?
- ✓ Do you like building things to solve problems?

An  
Engineer  
is someone  
like  
**YOU!**





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**Engineers are building a better world**  
and solving society's most pressing challenges  
– from sustainable flight to quality healthcare  
and clean energy.

- ▶ *But today,*  
**54% of companies**  
**globally** report  
talent shortages.

Source: ManPower Group:  
Closing the Skills Gap: Know  
What Workers Want



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That's why GE is announcing **Next Engineers** – a global college-readiness program to increase the diversity of young people in engineering.

► *Over the next decade, our goal is to:*

*Reach more than*  
**85,000 students**

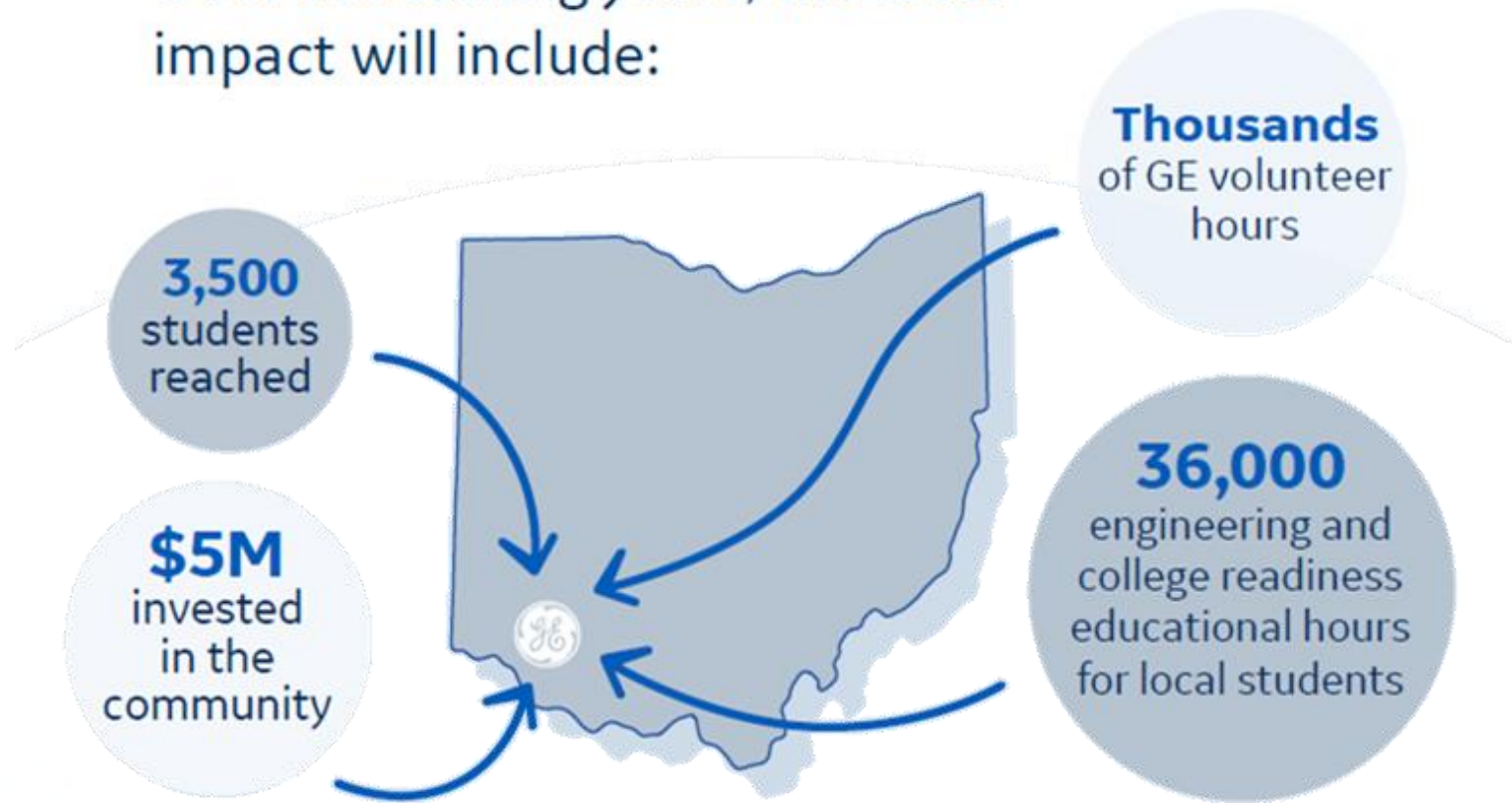


*in approximately* **25 cities**  
*around the globe.*



**Cincinnati** is proud to be one of the first cities in the world to bring Next Engineers to local students, along with our partners at the **University of Cincinnati**.

Over the coming years, the local impact will include:



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## 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 | • Problem-solving            | • Making and Building |
| • Creativity                  | • Teamwork and Collaboration | • Communication       |

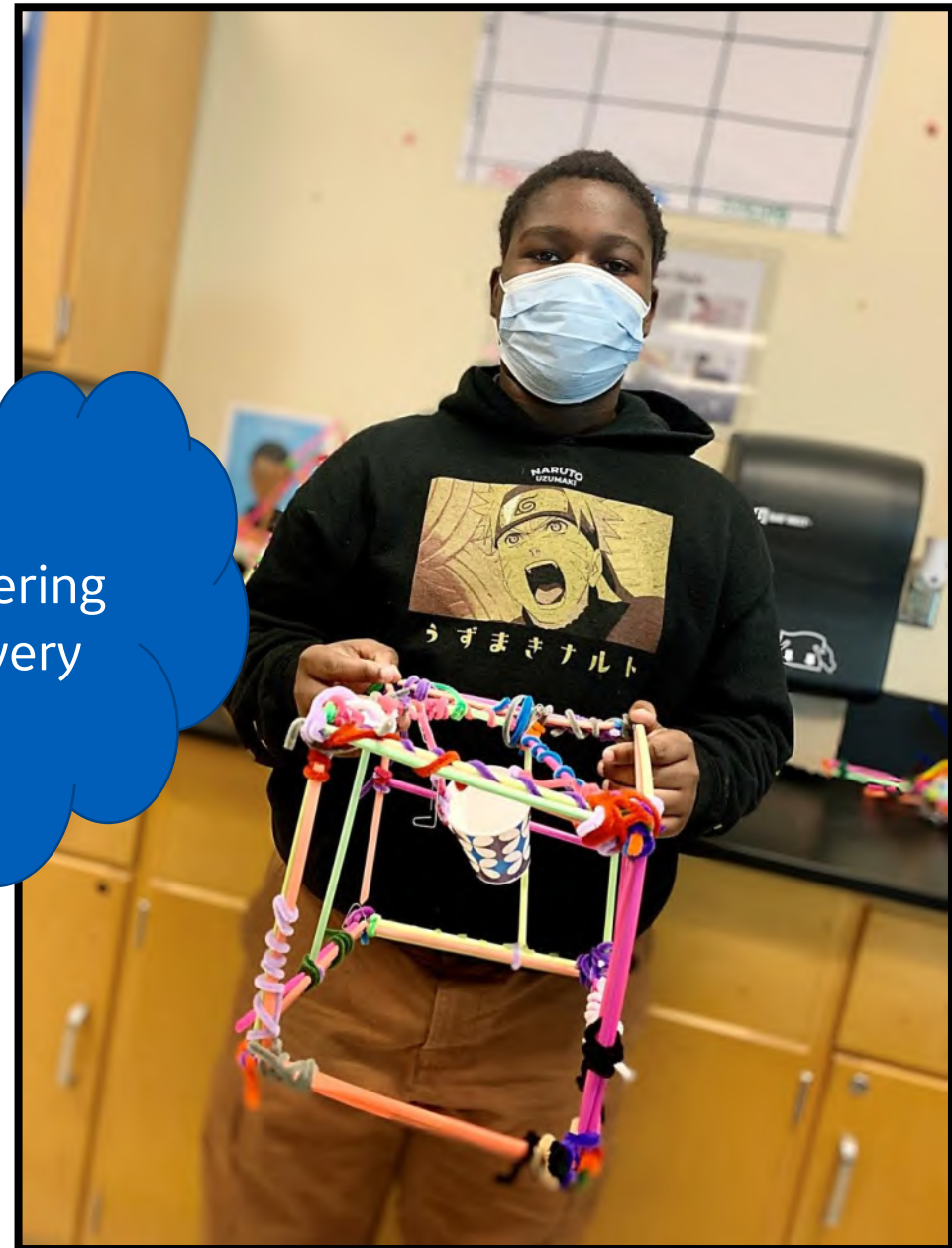


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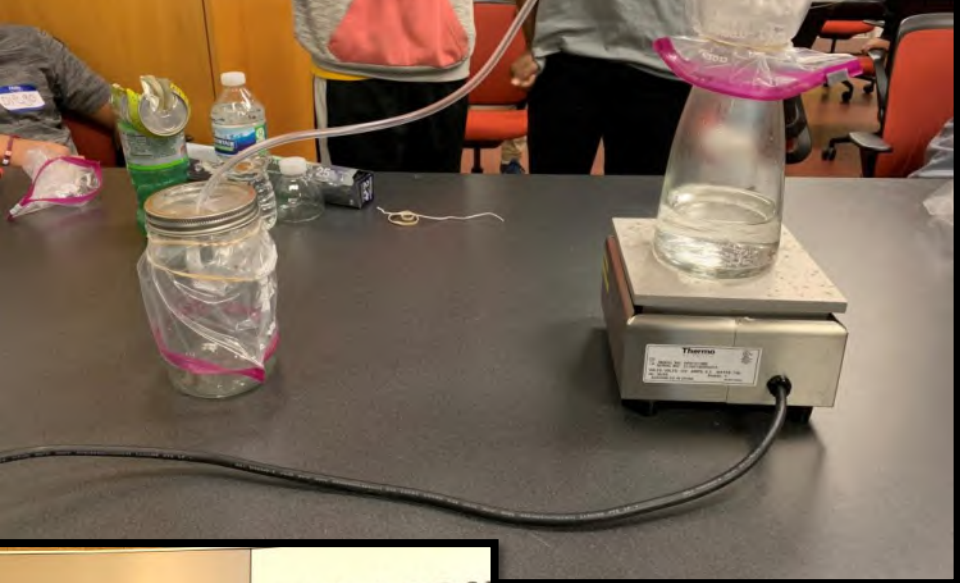




Engineering  
Discovery







# Engineering Academy



BOB & ROSA

JAY STEWART • ST POWER & THE

MR. & MRS. ALLSPACH • MR. A. W.

DR. & MRS. MILLER • EDWARD & JEA

MRS. JOHN J. GRISK

OUN

MRS. TARA GARDNER • MR.

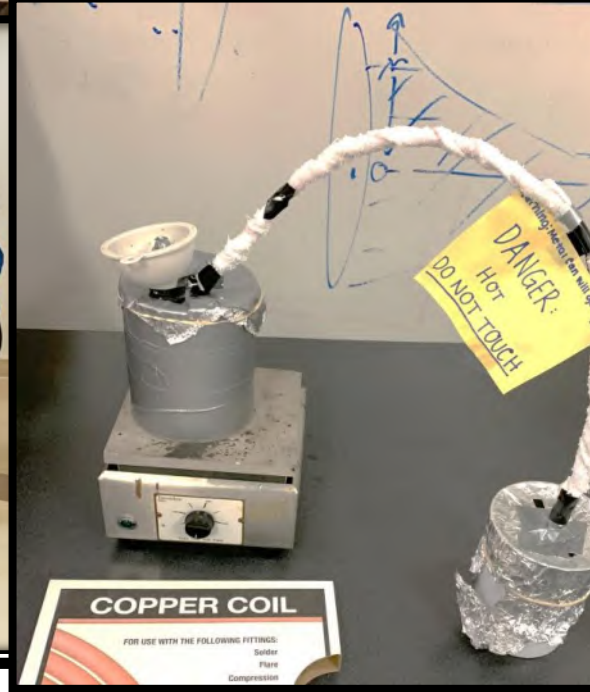
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**NEXT ENGINEERS**

**Engineering Academy**

Learn to think like an engineer as the Academy prepares you for higher education. Practice and explore design thinking, problem-solving, creativity, and teamwork through 80+ hours of design challenges and other activities each year.



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# Engineering Camp Overview & Schedule





# Engineering Camp Overview

## Located at University of Cincinnati

- A series of one-week programs, each with about 30 hours of hands-on activity time
- Students **experience** engineering by participating in immersive team-based engineering “design challenges.”
- Students develop their creativity and problem-solving skills and build an understanding of the variety of engineering fields
- Exposure to the University of Cincinnati campus and faculty, as well as GE Engineers
- Targeted at rising 9<sup>th</sup> and 10<sup>th</sup> graders (approximately 14-15 years old)
- No cost to participants! Supplies, t-shirt, lunch, snacks will be provided



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# Next Engineers Cincinnati

## Engineering Camp Schedule, Year 1: June 20 – July 22

All Camp sessions will run from 9:00 AM to 3:00 PM at the University of Cincinnati on the dates below.\*

### JUNE

*Week 1: June 20 - 24*

*Week 2: June 27 – July 1*

### JULY

*Week 3: July 11 – 15*

*Week 4: July 18 - 22*

**Each Engineering Camp will cater to 50 students aged 14–15 years (i.e., students who are not yet eligible for the Engineering Academy) and who reside in the general geographical catchment area defined for Next Engineers in each city. Engineering Camp is free to students, but they are required to apply via an online form. Over-subscription will be managed by way of a lottery. In total, four Engineering Camps will be hosted per year for a total of 200 campers.**

*\*Please note, this schedule is subject to change due to inclement weather or other unforeseeable circumstances. Updates will be shared with Academy students and parents or guardians.*



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# Camp Logistics

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**Drop-off Location:** UC Carl Linder College of Business

**Walking Directions:** Students will walk with Camp Counselors to Mantei Center where the camp will take place.

**Pick-up Location:** UC Carl Linder College of Business

**Transportation:** Can be provided. Email [lewis2ai@ucmail.uc.edu](mailto:lewis2ai@ucmail.uc.edu).



# Sample Daily Schedule

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Day	Time	Activity
Day 1	9:00 – 9:45	Arrival and Camp Material Distribution
	9:45 -- 10:15	Opening and Introduction
	10:15 – 11:15	Spaghetti Tower Challenge
	11:15 – 11:30	Break
	11:30 – 12:30	Design Challenge 1
	12:30 – 1:15	Lunch
	1:15 – 2:30	Design Challenge 1 (Continued)
	2:30 – 3:00	Wrap-up & Depart



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# Application Process



# Scan this QR Code



# Visit our Webpage

**[Click Here](#)**

**([NextEngineers.org/Cincinnati](https://NextEngineers.org/Cincinnati))**



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# Important Dates & Deadlines

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**March 23<sup>rd</sup>** – Information Session (English)

**April 13<sup>th</sup>** – Information Session (Spanish)

**March 28<sup>th</sup>** – Application Officially Opens

**April 22<sup>nd</sup>** – Application Closes

**April 29<sup>th</sup>** – Accepted and waitlisted students are notified

**May 20<sup>th</sup>** – Waitlisted students are notified if accepted



# Selection Process

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Please note that submitting a camp application form will place your student in the selection pool but does not guarantee them a spot in the GE Engineering Camp.

Students will be selected based on a lottery system until all spots are filled (50 spots each for 4 one-week sessions). Some students may be placed on a waiting list and granted admissions if/when spots become available.



# Student Eligibility

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- Be in 8th or 9th grade during the 2021-2022 school year
- Live in Cincinnati, OH, area
- Will commit to attending Engineering Camp sessions
- Wants to learn more about engineering
- Interested in solving real-world problems with math and science



# Application Details

## Application Materials due by April 22.

- Online or paper application.
- Can start application and continue it later using same computer and in same internet browser.

**Application can be completed online or e-mailed to [nextengineers.cincinnati@ge.com](mailto:nextengineers.cincinnati@ge.com).**

## Next Engineers: Cincinnati Engineering Camp Application

### ▼ About Next Engineers: Cincinnati Engineering Camp Application



Welcome to the Next Engineers: Cincinnati Engineering Camp Application! Please read the details below before starting the application.

### Engineering Camp Overview and Schedule:

The Next Engineers: Cincinnati Engineering Camp, sponsored by the GE Foundation and provided by University of Cincinnati, is open to any current **8th or 9th grader** living in the Cincinnati area. Over the course of **1 week**, campers will be immersed in the world of engineering, where they will develop their creativity and problem-solving skills, complete hands-on, team-based design challenges, have an opportunity to meet real-world engineers, and get a sense of college life. Camp is **free of charge** to all participants. Lunch will be provided. **Transportation** will be provided to students living within a 10-mile radius of the University of Cincinnati.

Engineering Camp will be held at the University of Cincinnati. Each session will run from 9 AM to 3 PM, Monday-Friday. This does not include transportation.



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# Application Details

## About Camper section

- Name
- Age
- Address
- Contact info
- Hear about Engineering Camp
- Past experience with Next Engineers: Engineering Discovery
- Interest form (if unsure, select “no”)
- Current grade and school

▼ **About the Camper**

\*First Name

\*Last Name

\*Age

\*Do you live in the Cincinnati, Ohio area?  
☐ Yes ☐ No

\*Street Address

\*City

\*State

\*Zip Code

\*Do you have an email account?  
☐ Yes ☐ No

\*Phone number

\*Is this a cell/mobile phone or a landline?  
☐ Cell/mobile phone ☐ Landline

**How did you hear about the Next Engineers: Engineering Camp?**  
choose all that apply

\*Have you previously participated in a Next Engineers: Engineering Discovery activity? (Your answer to this question will not impact your selection.)  
☐ Yes ☐ No

\*Did you, or a parent, complete the Engineering Camp interest form linked on the Next Engineers Cincinnati web page? (Your answer to this question will not impact your selection.)  
☐ Yes ☐ No

\*Current Grade  
School Year 2021-2022

\*What is the name of your school?

[→ Next](#)



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# Application Details

## Camp session preferences

- Rank each session as first, second, third, or fourth preference, or indicate if you are not available for the session
- If more than one session is equally acceptable, may apply same preference ranking (i.e., rank two sessions as first preference)

### ▼ Engineering Camp Information

Indicate your preference for each camp session by checking an option for each session below.

#### \*Session 1: Monday, June 20 to Friday, June 24, 2022

- ☐ First preference
- ☐ Second preference
- ☐ Third preference
- ☐ Fourth preference
- ☐ Not available for this session

#### \*Session 2: Monday, June 27 to Friday, July 1, 2022

- ☐ First preference
- ☐ Second preference
- ☐ Third preference
- ☐ Fourth preference
- ☐ Not available for this session

#### \*Session 3: Monday, July 11 to Friday, July 15, 2022

- ☐ First preference
- ☐ Second preference
- ☐ Third preference
- ☐ Fourth preference
- ☐ Not available for this session

#### \*Session 4: Monday, July 18 to Friday, July 22, 2022

- ☐ First preference
- ☐ Second preference
- ☐ Third preference
- ☐ Fourth preference
- ☐ Not available for this session



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# Application Details

## Parent/Guardian section

- Parent/Guardian information collected:
  - Name
  - Address
  - Phone
  - E-mail

**Once you submit application, parent/guardian will receive an e-mail regarding application and will be asked to confirm support of your participation.**

▼ Parent/Guardian Section

\* Parent/Guardian Name

\* Street address

\* City

\* State

\* Zip code

\* Phone number

\* Is this a cell/mobile or a landline?

☐ Cell/mobile phone

☐ Landline

\* Email address



# Application Details

**Don't forget to click “SUBMIT”!!**

Or at this point, you may save a draft version or go back to make changes

Wait for confirmation email; if you do not receive one, contact **[nextengineers.Cincinnati@ge.com](mailto:nextengineers.Cincinnati@ge.com)**

### Next Engineers: Cincinnati Engineering Camp Application

Thank you for completing the Engineering Camp application.

Please click on the **submit** button below to complete the application. To ensure your application is submitted successfully, please wait to close your browser until you receive a message at the top of your screen indicating success.

If you do not receive an email confirmation in 3 days, then please contact [nextengineers.Cincinnati@ge.com](mailto:nextengineers.Cincinnati@ge.com). All students and parents will be notified regarding admission into Next Engineers: Cincinnati Engineering Camp by **Friday, April 29, 2022**.

Save Draft

Submit

Back

Return to Beginning

Go to End



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# Frequently Asked Questions: Camp Basics

## Question 1

**Is there a cost for this program?**

*Next Engineers Camp is absolutely free.*

## Question 2

**Can my child attend more than one week of the camp?**

*No, each student is only allowed to attend one session. The same activities will be done in each session.*

## Question 3

**Who will be teaching the camp?**

*Each Engineering Camp session will be facilitated by two trained educators who will be supported by a team of trained camp counselors, University of Cincinnati students, and engineering volunteers.*

## Question 4

**Will lunch and snacks be provided?**

*Yes. Lunch and snacks will be provided for students during each day of the camp. However, students are allowed to bring a water bottle and snacks to consume throughout the day.*



# Frequently Asked Questions: Camp Logistics

## Question 5

**Is it ok if I have to arrive late, leave early, or miss a day of camp?**

*The attendance policy for Camp will be reviewed during camp orientation (the first day of camp) and will be included in the Camp Handbook.*

*Full participation (attending 5 days) is expected from all camp participants. If your child will be late or need to leave early, this should be communicated in advance to the Camp facilitator.*

## Question 6

**What are the covid protocols?**

*UC requirements, which are subject to change, are as follows:*

*At this time, attendees of camps hosted on our campuses are not required to mask. However, it is advised that camp organizers communicate that personal health and safety is a priority and any camper may choose to wear a facial mask at any time. Proof of vaccination or a negative test is not required for day camp attendees.*

## Question 7

**Will participating in Next Engineers Camp improve my odds of being selected for Next Engineers Academy?**

*Acceptance into the Academy is based upon meeting the eligibility requirements and being selected by a review committee. However, Camp participants will be granted exclusive access to the Academy Registration at the conclusion of Camp. Academy selection is expected to be announced at the end of September 2022.*





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# Questions from Audience



# NEXT ENGINEERS

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Join Next Engineers: Engineering Camp!

## Visit

<https://www.nextengineers.org/cities/cincinnati>  
to **learn more** and **apply!**

## Contact

Brother Abdine Lewis, Next Engineers Program Coordinator  
University of Cincinnati  
[nextengineers.Cincinnati@ge.com](mailto:nextengineers.Cincinnati@ge.com)



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