2019 PROGRAM | Discover endless possibilities in engineering

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TRY Engineering

Summer Institute

Where your future begins...

2019 Dates

SESSION 1
July 7 – July 20

SESSION 2
July 21 – August 3

IEEE

University of California, Riverside, California

Welcome to TryEngineering Summer Institute!

This exciting two-week experience is designed to inspire future engineers through an engaging (and fun!) on-campus experience. Students explore different fields of engineering while learning how they can use engineering principles and lessons to solve real-world challenges.

Students ages 12-17 participate in a broad range of fun and educational design challenges across the engineering spectrum. In the past, students have designed robot arms, drones and remote-controlled cars, built and launched rockets, and even learned to solder working circuits.

Students also experience real-life work firsthand during behind-the-scenes tours with real-life engineers at locations like NASA, LaGuardia International Airport, a ConEdison power station, local engineering companies, aerospace contractors and more.*

Come to the Summer Institute

LEAVE WITH …

- An understanding of how engineers can solve problems and make a difference.
- Knowledge of engineering degrees and career options.
- Improved critical thinking, communication and collaboration skills.
- New friends with similar interests.
- An unforgettable campus living experience.

**Trips vary by campus location.*

Experience Engineering on a College Campus

The 2019 TryEngineering Summer Institute occurs at three campuses located around the United States, each one known for its excellent engineering curriculum, contemporary campus and local flavor. This is where our students experience a unique mix of structured academic and social activities in a real university environment, getting a true glimpse at what it's like to live, learn and enjoy life at college.

Texas A&M University, College Station, Texas

Vaughn College of Aeronautics & Technology, New York

Why Choose the TryEngineering Summer Institute?

FUN HANDS-ON DESIGN CHALLENGES LIKE:

- Design, engineer, print and build a 3D-printed car, then race it
- Build a trebuchet and compete in distance and accuracy trials
- Construct and test launch a rocket by re-engineering a basic kit for optimal performance
- Solder functional electrical circuits

… And many more!

EXCLUSIVE VIP TOURS

Sneak a peek at the inner workings of top engineering facilities and venues with behind-the-scenes tours and direct access to the many careers available within engineering!

DISTINGUISHED GUEST SPEAKERS

Gain valuable knowledge from notable experts on how to succeed in college and in an engineering career.

ACCESS TO ENGINEERING LABS AND TECH SPACES

Students discover on-campus engineering tools, equipment and technology that may be available to them as future engineering students.

Explore our campuses and view a sample schedule at **tryengineeringinstitute.ieee.org**

A Look Back at 2018

Last year, the TryEngineering Summer Institute…

Hosted students from
5 COUNTRIES

Awarded
15 SCHOLARSHIPS

Provided an
8:1 STUDENT-STAFF RATIO

> "***I can envision my future with such clarity*** that I now know my future major and profession will be in engineering. Thank you for letting me see that my dream job can be a reality!"
>
> ALEXANDER F, 15 YEARS OLD
> PALO ALTO, CA

tryengineeringinstitute.ieee.org | 866.397.2267

Engineering Program Content for All Levels

TryEngineering Summer Institute offers Introductory and Advanced program content for every level of student experience. Students are grouped by age, skill and knowledge of the topics. Students in both programs will:

- Gain insight into what it's like to study engineering in a collegiate atmosphere.
- Explore career paths in these high-demand fields.
- See real-world engineering projects during field trips.
- Learn about future academic and career possibilities.
- Engage with professionals working in industry and academia.
- Live and learn on a college campus, getting the full experience of college life as an engineering student.

All while enjoying time with new and returning friends on and around one of our prestigious campuses.

Introductory Engineering Program

The Introductory Program at the TryEngineering Summer Institute is ideal for students considering a degree or career in engineering, as well as for those just curious to learn more about the field and enjoy creative design challenges. This program is structured to challenge and inspire students through an interactive and engaging curriculum designed by IEEE STEM specialists specifically for our Summer Institute.

Students participate in team-based, hands-on design challenges, hear from fascinating guest speakers, and experience exciting off-campus field trips to local engineering sites.

THIS PROGRAM IS PERFECT IF YOU WANT TO:

- Get an introduction to how engineering is applied in the real world and how it's shaping our future.
- Participate in fun, interactive, hands-on projects that teach engineering concepts.
- Experience for yourself how engineers work in teams to solve global challenges.

Advanced Engineering Program

The curriculum and coursework for the Advanced Program builds in intensity, providing a fun challenge for older and more experienced students. Students will deepen their understanding of the engineering field through curriculum designed by IEEE STEM specialists specifically for our Summer Institute.

THIS PROGRAM IS PERFECT FOR RETURNING, OLDER OR EXPERIENCED STUDENTS WHO WANT TO:

- Participate in multi-disciplinary design challenges in electrical, civil, mechanical, aerospace and other engineering disciplines.
- Learn to think like engineers while building critical thinking, communication and collaboration skills.
- Develop the knowledge, confidence and leadership skills required to achieve your goals.

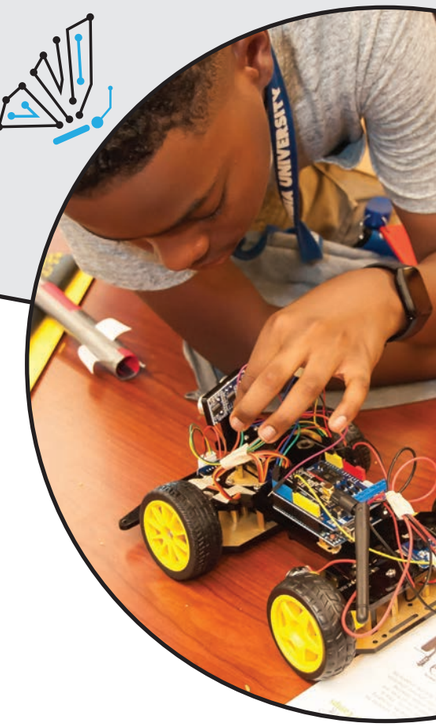
TryEngineering Summer Institute is open to:

Students with any level of engineering experience are welcome to attend the TryEngineering Summer Institute! All you need is an interest in learning more about engineering and technology fields and related professions.

- Students entering grades 8-12, or ages 12-17, in fall 2019 are eligible.
- Letters of recommendation, transcripts and essays or references are not required.
- All levels of students are accepted regardless of your level of engineering or technology experience.

> "***My son had a blast*** these past 2 weeks. He really enjoyed the camp, and was very happy to show off his work."
>
> PARENT OF A 13 YEAR OLD INSTITUTE STUDENT, JAMAICA, NY

We recommend that students enroll as early as possible to secure a spot in your first choice Summer Institute session and campus.



Program Options and Tuition

RESIDENTIAL PROGRAM:

- Standard Tuition: $2,995
- IEEE Member/Employee Tuition: $2,895 *(includes $100 IEEE Member Discount)*
- Airport Pick-up/Drop-off service: $95 one way, $175 both ways

RESIDENTIAL PROGRAM INCLUDES:

- Opening Sunday dinner
- All academic supplies and classes
- Double occupancy room in the residence hall
- Breakfast, lunch and dinner daily on campus
- Camp t-shirt
- Site visit and excursion expenses
- Transportation to and from activities during the two-week session
- Super Saturday and Sleepy Sunday activities and excursions
- Closing ceremony

COMMUTER/DAY PROGRAM:

Monday-Friday, 8:00-8:45 a.m. drop off, 4:00-4:30 p.m. pick up

- Standard Tuition: $1,995
- IEEE Member/Employee Tuition: $1,895 *(includes $100 IEEE Member Discount)*

COMMUTER/DAY PROGRAM INCLUDES:

- Opening Sunday dinner
- All academic supplies and classes
- Daily lunch in the campus dining hall on weekdays
- Camp t-shirt
- Site visit and excursion expenses for Institute trips taking place during the day/class time (not weekends)
- Transportation to and from activities during the two-week session
- Closing ceremony

PAYMENT TERMS FOR BOTH PROGRAMS:

- A $500 deposit is required at the time of registration to reserve your spot.
- Tuition payments may be made in any amount over time through our online registration system.

Final payment is due by June 1, 2019.

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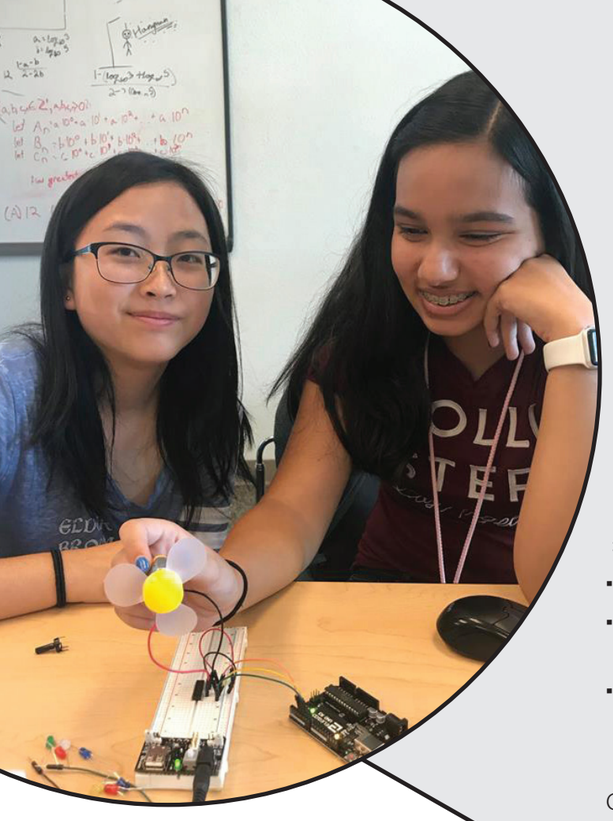


About the TryEngineering Summer Institute

OUR GOAL

To spark enthusiasm in engineering and technology in the next generation of problem-solvers and difference-makers, and position these innovators for long-term success in academics and in life.

HOW DO WE DO IT?

Organized in two-week sessions each summer on three dynamic college campuses across the United States, we unite students from around the world to:

- Engage in hands-on design challenges.
- Experience the work firsthand with behind-the-scenes tours with real-life engineers.
- Discover not just what's happening today, but what's coming tomorrow, through conversations with renowned guest speakers and incredible TryEngineering Summer Institute counselors.

Give us two weeks, and we'll give you a new definition of what it means to be an engineer.

About IEEE

IEEE is the world's largest professional association for the advancement of technology. Our more than 417,000 members in 160 countries, including more than 120,000 student members, help us provide the trusted "voice" for engineering, computing and technology information around the globe via highly-cited publications, conferences, technology standards and professional and educational activities.

Read more about us at IEEE.org

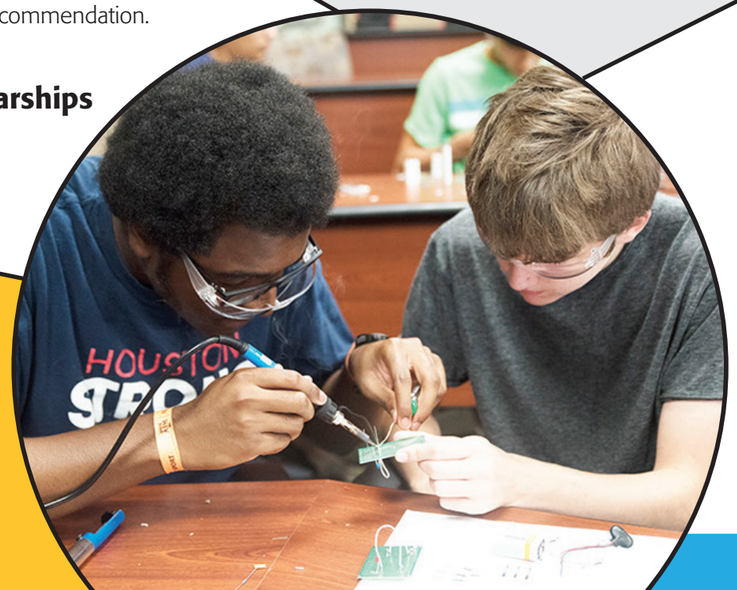
"The program really ***boosted my son's confidence.*** Now he is actually excited about engineering and looking forward to going to college!"

PARENT OF A 15 YEAR OLD INSTITUTE STUDENT, CYPRESS, CA

Summer Institute Scholarships

A limited number of full and partial tuition scholarships are available for those who demonstrate financial need. Scholarship applications must include financial information, a personal essay and letters of recommendation.

To learn more and apply, visit:
tryengineeringinstitute.ieee.org/scholarships



"TryEngineering Summer Institute gave me a ***better understanding of the type of engineering I would like to pursue*** as a career and as a major in college"

BRANDON P, 17 YEARS OLD, GRETNA, LA

Our Philosophy

We believe in offering all students the opportunity to explore science, technology, engineering and math in a supportive, hands-on environment. We seek to provide those opportunities within higher learning settings where students can learn from like-minded peers and gain expertise from the best and brightest in the STEM fields, with the hope to inspire the pursuit of engineering and related studies, and ultimately, careers.

Visit tryengineeringinstitute.ieee.org for more information and to enroll today!

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"I would have never imagined that I would meet awesome people who ***share the same interest and qualities as myself,*** which only strengthened my desire to go into college and pursue a biomedical engineering degree."

ISRAEL D., 16 YEARS OLD, LAREDO, TX

"***My son rated it 10/10.*** Not only did he enjoy the classes and the tours, the residential experience was great. He felt that the experience not only helped him in making concrete his love for engineering, but also helped him socially."

PARENT OF A 13 YEAR OLD INSTITUTE STUDENT
MASPETH, NY

"Overall, ***this experience was life changing*** as I made so many new friends and got to understand how to solder, 3D design, build drones, and most of all I got to meet and still keep in contact with all of my new friends."

KARINA P., 15 YEARS OLD, GRAND PRAIRIE, TX

Enroll today!
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