

GT-AE Rankings: Always top tier

The undergraduate program in the Daniel Guggenheim School of Aerospace Engineering at Georgia Tech has been rated in the top five by *U.S. News & World Report* every year for more than a decade. In 2014, a study by *Aviation Week* found that Georgia Tech graduates are considered #1 by aerospace and defense employers seeking workers with critical skills.

#2

GT-AE undergraduate program ranking,
U.S. News & World Report, 2017 & 2018

GT-AE Faculty: Committed to learning outside the classroom

All of GT-AE's 40+ faculty are involved in expanding the boundaries of aerospace engineering through research labs, multi-disciplinary centers, and collaborative groups. Students who join them as research assistants find themselves in some great learning environments, including:

- Aerospace Systems Design Lab
- Aerothermodynamics Research & Technology Lab
- Air Transportation Lab
- Cognitive Engineering Center
- Ben T. Zinn Combustion Lab
- Computational Combustion Lab
- Experimental Aerodynamics Group
- High-Power Electric Propulsion Lab
- Space Systems Design Lab
- Structural Dynamics and Smart Structures Lab
- UAV Research Facility
- Vertical Lift Research Center of Excellence
- Vibration and Wave Propagation Lab
- **And many more!**

"I came in as a freshman expecting to work really hard, and I did. And I know now that I wouldn't have learned as much if the school hadn't pushed me so hard. All of the professors have done a great job of making sure that we don't do the bare minimum. They expect us to go farther, to have a true grasp of the impact of what we are learning."



– Gerard Butler, B.S. AE '17

Visit ae.gatech.edu/ae-labs-centers-collaborative-groups for a complete look.

GT-AE Student Organizations: Where community builds

There are more than 200 student organizations at Georgia Tech — open to students from any major. The following organizations have always had a special appeal to AE students:

- American Helicopter Society (AHS)
- American Institute of Aeronautics and Astronautics (AIAA)
- Design Build Fly Club
- Mars Society at Georgia Tech
- Ramblin' Rockets Club
- School of Aerospace Engineering Student Advisory Council (SAESAC)
- Sigma Gamma Tau - The National Aerospace Engineering Honor Society
- Yellow Jackets Flying Club (YJFC)
- GT Off-Road Club

See what AE students have to say: ae.gatech.edu/after-ae-success-stories

270 Ferst Drive, Atlanta, Georgia 30332-0150
404.894.3002

ae.gatech.edu | admission.gatech.edu



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Georgia Tech Daniel Guggenheim School of Aerospace Engineering



WHERE CAN **GT-AE** TAKE YOU?

THE UNDERGRADUATE
PROGRAM

WHAT DO AEROSPACE ENGINEERS DO?

Aerospace engineers like tackling impossible problems — from rebuilding their parents' car engines while no one's looking to landing a vehicle on Mars with the whole world watching. We design, build, analyze, and improve systems for commercial and military aircraft and helicopters, satellites, unmanned vehicles, and space exploration. We collaborate with other engineering fields to make systems that are cheaper, quieter, faster, lighter, and environmentally friendly. Our faculty know how to recognize and mentor promising young minds to become tomorrow's thought leaders and industry innovators.

Georgia Tech aerospace engineers get the big picture. Our students are not just book-smart. They strive for true sophistication in all of the aerospace disciplines, including: aerodynamics & fluid mechanics, aeroelasticity & structural dynamics; flight mechanics & controls; propulsion & combustion; structural mechanics & materials, and system design & optimization. And when they are done studying for the day, GT-AE students put their knowledge to the test, in multiple academic and industry-sponsored design-build-fly competitions and research projects.

“Georgia Tech grads are inventive, enthusiastic, impatient, and intellectually rowdy and audacious. It’s why I so loved living and learning on this campus.”

– Retired Admiral James A. "Sandy" Winnefeld, B.S. AE '78



WHAT IS A GT-AE DEGREE?

The undergraduate degree in aerospace engineering is a starting point for a wide variety of ambitious careers. Our curriculum has been updated to give students a combination

of classroom, laboratory, research, and work opportunities that will ensure that their knowledge and skills exceed the complex demands of today's workplace and graduate programs. Undergraduates have the choice of minoring in a subject outside of their major — like international affairs or business. They may also earn a certificate in an area that directly enhances their grasp of aerospace engineering. Both options are noted on the student's diploma upon graduation. And it can all be accomplished in four years.

The BS/MS program allows eligible students to complete three semesters of research while earning their bachelor's and master's degrees. Students can apply as many as six hours of select course credit to both degrees. That translates to earning a MS degree in as little as five years — all without taking the Graduate Records Examination (GRE).



“I was brought up to aim high, to push myself, but Tech taught me to challenge myself on a whole new level. Now, when I see a problem that has no apparent solution, I stay calm, knowing that I have the skills, knowledge, and experience to break it down and solve it.”

– Kevin Okseniuk, B.S. AE '16

You can do research

Research opportunities are not reserved for graduate students only. In a typical year, as many as 40% of eligible GT-AE undergrads are involved in research. Many are invited to co-author papers or present at conferences. Students can do research for pay or credit. Support for research activities is available through a number of sources, including fellowships from industry, the National Science Foundation, NASA, and the Department of Defense.

You can learn on the job

GT-AE co-op students and interns are in high demand by virtually every major aerospace employer as well as several branches of the government and military. Their assignments vary but none are 'busy work.' Employers want to take advantage of the cutting-edge perspective our students bring. Co-op students take on three or more semesters of paid workstudy experience — often leading to a job offer after graduation. Internships allow students to polish their engineering skills and knowledge through one or more semesters of work in the field.

You can study abroad

The Study Abroad, Foreign Exchange, and International Plan programs maintain the rigor of the GT-AE program while giving students the cultural competence that today's global workplace demands.

Students in the **Study Abroad** program are taught by GT-AE faculty in another

country while GT-AE **Foreign Exchange** students receive credit for courses taken at a top-tier foreign university. The **International Plan** gives students the option of studying in a foreign country for six months — gaining significant language mastery along the way.

Find out more: Office of International Education, oie.gatech.edu

“Everything I fell into at Georgia Tech — my research, my co-ops, the opportunities to work with faculty — were incredibly valuable. I worked very hard here, but faculty took chances on me, when I knew nothing.”

– Katherine E. Durden, B.S. AE '16



“What’s been great, for me, is that I haven’t had to choose between theoretical research and practical applications.

Georgia Tech has let me do both. I have co-oped four times for NASA, and, during the semesters when I’ve been on campus, I’ve gotten involved in really interesting research. And I am working for JPL when I graduate.”

– Christine Gebara, B.S. AE '17

