WHERE CAN GT-AE TAKE YOU?

THE UNDERGRADUATE PROGRAM
GT-AE RANKINGS: ALWAYS TOP TIER

The undergraduate and graduate programs in the School of Aerospace Engineering at Georgia Tech have been rated in the top three 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.

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
- Combustion Lab
- Computational Combustion Lab
- Experimental Aerodynamics Group
- Flight Mechanics and Control
- 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!

"When you come to Georgia Tech, research seems intimidating, like something you'll never get a chance to do. But that's not true. I emailed a professor whose work I admired, and now I am working in a lab with researchers, designing a liquid fuel system to measure the turbulent flame speed of vaporized liquid fuels. It's really cool. And I'm just a sophomore."

– Aaron Blacker, GT-AE undergraduate

GT-AE STUDENT ORGANIZATIONS: WHERE COMMUNITY BUILDS

Many GT-AE students find their passion for aerospace engineering doesn't end when classes are over. Student organizations fill that gap:

- 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 (SGT) - The National Aerospace Engineering Honor Society
- Yellow Jackets Flying Club (YJFC)

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The aerospace undergraduate curriculum is designed to give students a combination of classroom, laboratory, and research experience that will ensure that their knowledge and skills will exceed the complex demands of today’s workplace. 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.

The BS/MS program: The BS/MS Honors Program allows eligible students an opportunity to complete three semesters of undergraduate research while earning their bachelor’s and master’s degrees. The program can be completed in as little as five years — all without taking the Graduate Records Examination (GRE). Students can apply as many as six hours of select course credit to both degrees.

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.

Georgia Tech aerospace engineers get the big picture. Our students are introduced to the entire spectrum of 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.

WHAT IS A GT-AE DEGREE?
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“Georgia Tech grads are inventive, enthusiastic, impatient, and intellectually rowdy and audacious. It’s why I so loved living and learning on this campus.”
– Admiral James A. "Sandy" Winnefeld, B.S. AE ’78

“I’ve always had NASA’s stars in my eyes. Eventually I see myself working on artificial intelligence as part of my work in space exploration.”
– Sara Miller, GT-AE undergraduate
YOU CAN DO RESEARCH
Research opportunities are not reserved for graduate students only. Nearly 40% of eligible GT-AE undergrads were involved in research in 2013-14. Many were 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 they are not ‘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.

“Working at Boeing I got to see both how vulnerable and how well-protected our country is. And being SGA president at Georgia Tech, I realized how much I enjoyed talking to people, and that I wanted to find something where I could use my analytical mindset but also interface with people.”
— Nicolas Picon, B.S. AE ’14, Marshall Scholar

“Everything about my experience at Georgia Tech has prepared me to be successful when I take the next step into a career. It all came together when I got an internship. I brought them my best and now I have even more opportunities.”
— Tiffany Davis, GT-AE undergraduate