



Find Your Place in Space at CSU

Explore Aerospace Engineering Programs at Colorado State University

CSU is the place to be for students interested in aerospace education, research, and access to industry partnerships.

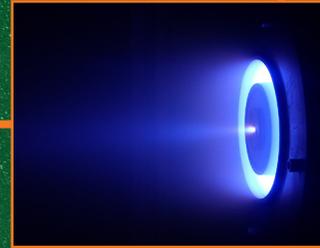
Hands-On Learning

Pursuing an education in aerospace engineering will expand your knowledge of the design, manufacturing, and operating techniques of air flight capable machines. World-class faculty lead academic programs across engineering disciplines to offer you a hands-on, applied education. Whether it's deep-space communication, autonomous UAVs, robotics or using and calibrating sophisticated sensors, students with a passion for aerospace have a home at CSU.



Applied Research

CSU's Walter Scott, Jr. College of Engineering is highly active and engaged in aerospace-related research. Our experts work closely with government laboratories and industry partners to solve complex technical challenges. Students have the opportunity to work on many of these projects, contributing to research breakthroughs and helping to grow Colorado's thriving aerospace economy.



Major Research Disciplines

Advanced Propulsion	Fluid Flow	Materials & Manufacturing
Communications & Signal Processing	Computer Engineering	
Controls & Robotics	Space Systems Design	Radars & Remote Sensing

Research Facilities

Articulated Motion Laboratory	Center for Laser Sensing and Diagnostics	Chemical Energy Conversion Laboratory
Computational Fluid Dynamics and Propulsion Laboratory	Electric Propulsion and Plasma Engineering Laboratory	Multifunctional Polymers and Composites Laboratory
Radars, Communications, and Remote Sensing Laboratory	Research, End Market, and Commercialization Hub CoLab	TEMPEST-D Laboratory

“An engineering degree from Colorado State University is unlike any other in this country. My degree provided me with a strong set of skills and hands-on experience, which made me a valuable asset on day one in industry. As an engineer at Boeing, I rely on this skill set to solve complex problems, and use my knowledge of manufacturing and material science to assist our team in keeping the F-15 moving down the production line.”

– Adam Grabish, Structural Analysis Engineer
Boeing Defense, Space & Security

Academic Programs

Undergraduate Concentrations in Aerospace Engineering

Students in the Departments of Mechanical Engineering and Electrical and Computer Engineering can earn an undergraduate concentration in aerospace engineering when they complete 12 credit hours (four technical electives) of approved coursework. Available on campus.

Graduate Programs in Systems Engineering

The Department of Systems Engineering is a graduate-only program with options to pursue either a graduate certificate, Master of Engineering (M.E.), Master of Science (M.S.), Doctor of Philosophy (Ph.D.), or Doctor of Engineering (D.Eng.). Students take classes and conduct systems-related research in aerospace, cybersecurity, and energy as part of their flexible and applied degree program. Available on campus or online.

Graduate Programs in Mechanical Engineering

The Department of Mechanical Engineering offers a graduate certificate in aerospace engineering, Master of Engineering (M.E.) with an aerospace engineering specialization, and a Master of Science (M.S.) with a master's thesis in aerospace engineering. Students take classes and conduct research in disciplines such as advanced propulsion, fluid flow, structures, and materials and manufacturing.

All programs are available on campus; the certificate and M.E. are also available online. Systems Engineering courses are available to M.E. and M.S. students.

Graduate Programs in Electrical and Computer Engineering

The Department of Electrical and Computer Engineering offers a graduate certificate in aerospace engineering, Master of Engineering (M.E.) with an aerospace engineering specialization, and a Master of Science (M.S.) with a master's thesis in aerospace engineering. ECE students will study topics ranging from communication networks and wireless systems to energy efficient computing to machine learning for radars and satellites.

All programs are available on campus; the certificate and M.E. are also available online. Systems Engineering courses are available to M.E. and M.S. students.



WALTER SCOTT, JR.
COLLEGE OF ENGINEERING
COLORADO STATE UNIVERSITY
www.engr.colostate.edu/aerospace

Student Organizations

Ram Rocketry

Undergraduate club for rocketry enthusiasts. Learn how to construct a rocket, safely handle solid rocket motors and range safety, obtain Level 1 certification through the National Association of Rocketry, community outreach

American Institute of Aeronautics and Astronautics (AIAA)

Offers introduction to industry via lectures, seminars, and competitions

NASA Space Grant Program

Provides 30 years of educational and professional opportunities for undergraduate students and Colorado Space Grant Consortium's project-based team challenges and competitions

Students for the Exploration and Development of Space (SEDS)

Leads engineering projects, outreach to local schools and communities, chapter-based competitions and scholarships, annual networking events and conferences