SC AEROSPACE
YOU'RE CLEARED TO LAND IN SOUTH CAROLINA
AN INDUSTRY CLUSTER SUPPORTED BY SOUTH CAROLINA COUNCIL ON COMPETITIVENESS

Aerospace Engineering High School Curriculum

WHO:

SC Aerospace is a collaborative effort supported by the SC Council on Competitiveness and the SC Department of Commerce. SC Aerospace convened an Education Working Group two years ago to explore options to expand aerospace education offerings in the state. The group formally recommended the curriculum to the SC Department of Education in December 2016.

WHAT:

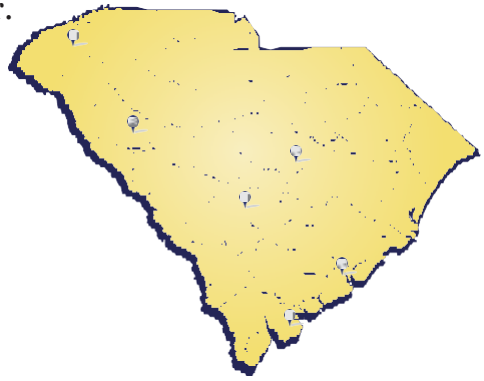
The **Aerospace Engineering high school curriculum** was developed by the Southern Regional Education Board and Alabama as part of a multi-state consortium to improve career and technical education. It is a multi-disciplinary project-based learning program created to build a foundation for a career or higher learning in aerospace. Students will take four courses focused on the fundamentals of aerospace technology and advanced applications – **Fundamentals of Aerospace Technology, Advanced Aerospace Technology, Aeronautics Engineering Applications, and Astronautics Engineering Applications**

WHEN:

The program rolled out in South Carolina for the fall 2017-2018 school year.

WHERE:

The seven South Carolina schools currently in the program are:
Battery Creek High School in Beaufort, Edisto High School in Cordova, Emerald High School in Greenwood, R.B. Stall High School in Charleston, Pickens County Career and Technology Center, Sumter Career and Technology Center in Sumter, and Anderson Institute of Technology in Anderson (2019-2020 academic year).



WHY:

There are many opportunities to pursue aerospace careers in South Carolina. According to research by the South Carolina Council on Competitiveness, the state has a strong aerospace cluster with approximately 400 companies and over 50,000 employees. The average total compensation for a private-sector aerospace employee is $78,000 per year.

How:

All nine SREB curricula are free and available to all South Carolina high schools and course codes have been approved by SC Department of Education. The curricula are part of the SCDOE Career and Technology Education division. Teachers for the aerospace engineering program can be math, science, technology or engineering teachers. Teachers are required to take an annual training seminar each summer (held at GA Tech). Startup costs for the program include some equipment purchases, though the equipment mirrors the Project Lead the Way equipment so many schools may already have the necessary items.

Contact B.T. Martin (btmartin@ed.sc.gov) to get the program started at your school!