AVIONICS PROGRAM

WIRE YOUR FUTURE FOR SUCCESS.

Real-Job Training. Real-Job Rewards.

Redstone uses Snap-on tools. Specific Snap-on tools vary depending on program requirements.

WHY REDSTONE? Since 1965, more than 10,000 Redstone College students have become skilled, in-demand graduates, thanks to a formula for success:

- faculty with industry experience
- hands-on experience
- career-focused education
- industry relationships
- career assistance
- tuition-free alumni retraining (books, tools, resource fees may apply)
- preparation for industry certification exams*  
- financial assistance†
- no-cost tutoring
- Snap-on® tool kit
- preparation for industry certification exams must take and pass any available tests/exams
- available to those who qualify

Start building your career today!
Call 877-337-8525 or visit us at redstone.edu today.
If you’re a high school student, please call 888-748-0010 or visit us online at redstone.edu/highschool

Redstone College - Denver
10851 West 120th Avenue, Broomfield, Colorado 80021
Redstone College - Denver East
7350 North Broadway, Denver, Colorado 80221

All Redstone College institutions are nationally accredited by the Accrediting Council for Independent Colleges and Schools (ACICS). Not all programs available at all institutions. For important program disclosure information, including salary information, job titles and employers of our graduates, as well as information about median debt and potential occupations from the Department of Education, visit redstone.edu/disclosures. © 2015 Alta Colleges, Inc.

R-1064-06/15
AVIONICS PROGRAM

Avionics are the electronic systems used on an aircraft, satellites and spacecraft. Avionic systems include communications, navigation, the display and management of multiple systems, and the hundreds of systems that are fitted to aircraft to perform individual functions. Avionics play a key role in the development and construction of satellites, helicopters and airplanes of all types and sizes. Technicians in the avionics field are responsible for the assembly, maintenance, repair and installation of these airborne and space-related components.

Career Profile

Today's airplanes are highly complex machines that require reliable parts and service to fly safely. To keep an airplane in peak operating condition, aircraft and avionics equipment mechanics and technicians perform scheduled maintenance, make repairs, and complete inspections. They must follow detailed federal regulations set by the FAA that dictate maintenance schedules for a variety of different operations. Avionics technicians typically do the following:

- Test electronic instruments, using circuit testers, oscilloscopes, and voltmeters
- Interpret flight test data to diagnose malfunctions and performance problems
- Assemble components, such as electrical controls and junction boxes
- Install instrument panels, using hand tools, power tools, and soldering irons
- Repair or replace malfunctioning components
- Keep records of maintenance and repair work

Career Outlook

Job growth is expected to be about as fast as average compared to all occupations. Avionics technicians, who complete an aircraft mechanic training program will find the most favorable opportunities.

As the economy and population grows, passenger air traffic will also increase, spurring the growth for avionics technicians. That said, most jobs over the next decade will arise due to retirees and workers leaving the field for other careers.*

Boeing Predicts Increased Demand for Airline Technicians

Aerospace giant Boeing released a long-term market outlook report predicting that as global economies grow and tens of thousands of new commercial jetliners are produced, the demand for pilots and educated technicians will also grow exponentially. The company anticipates more than 400,000 pilots and 600,000 airline maintenance technicians will be needed by 2031.**

Get FCC Certifications

Many industry employers prefer graduates with important certifications. Our training helps you prepare for select Federal Communications Commission (FCC) certification tests. Avionics technicians work with instruments and computers that control engines, flight and other primary functions including aircraft navigation and radio communications. These systems are now an integral part of aircraft design and have had a huge influence on aircraft capability.

Graduates of the Redstone College Avionics program will master essential avionics concepts in courses such as:

- Digital Electronics
- Communication Theory
- Solid State Electronics
- Gyroscopes and Autopilot Systems
- Troubleshooting Techniques
- Transducer and Wiring Diagrams
- Communications and Navigation Systems
- Pulse Microwave Systems

THE PROGRAM

Avionics Associate of Occupational Studies degree in 15 months

Redstone’s career-focused education helps you develop the technical skills manufacturing employers seek. Airplanes are highly complex machines and they must function safely, with extreme tolerances. Avionics technicians work with instruments and computers that control engines, flight and other primary functions including aircraft navigation and radio communications. These systems are now an integral part of aircraft design and have had a huge influence on aircraft capability.

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Get FCC Certifications

Many industry employers prefer graduates with important certifications. Our training helps you prepare for select Federal Communications Commission (FCC) certification tests. Avionics students have the opportunity to take certification exams in elements 1, 3, and 8† under the auspices of the FCC exams. Additional certifications are available through the National Center for Aerospace and Transportation Technologies (NCATT)††. For students who choose NCATT status, Redstone instructors will help prepare them for required tests. All tests are administered on the Redstone campus.

†fcctests.com, ††ncatt.org
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Avionics Training Facilities

- nearly 8,000 square feet of classroom and lab space
- a large variety of test equipment
- advanced oscilloscopes and soldering stations
- three custom auto pilot trainers
- wide range of test benches


Get FCC Certifications

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††Source: ncatt.org

Typical Entry-Level Positions for Redstone Graduates

- Avionics Technician
- Field Technician
- Bench Technician

Avionics

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*Graduate willing to attain certification must take and pass any reimbursable tests/exams

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