

Getting There

Public University Programs	Colorado School of Mines	Colorado Mesa University	Colorado State University- Fort Collins	Colorado State University- Pueblo	Metropolitan State University of Denver	University of Colorado at Boulder	University of Colorado at Denver	University of Colorado at Colorado Springs	University of Northern Colorado	Western State Colorado University
Computer Science	B, G	B	B, G		B	B, G	B, G	B, G		
Aerospace Engineering Sciences						B, G				
Computer Engineering			B		B	B		B		
Software Engineering									B	B
Computer Systems Engineering			C							
Electrical Engineering	B, G		B, G			B, G	B, G	B, G		
Mechanical Engineering	B, G		B, G			B, G	B, G	B, G		
Industrial Engineering				B, G					B, G	B, G
Electrical Engineering Technology		C			C, B					
Mechanical Engineering Technology		A, B			B					
Engineering and Technology Management	G									
Business	B		B, G		C	B, G	B, G		B	
Supply Chain Management						G				

C = Certificate, A = Associate's Degree, B = Bachelor's Degree, G = Graduate Degree, M = Master's Degree, D = Doctoral Degree

Junior College & Community College Programs	Arapahoe Community College	Community College of Denver	Pikes Peak Community College	Pueblo Community College	Red Rocks Community College
Computer Science	A				C
Electronic Technologies			A, C	A, C	
Aerospace Technician		A			
Business	A, C	A			A, C

C = Certificate, A = Associate's Degree



COLORADO
Department of
Labor and Employment
Office of Labor Market Information

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Want more Education?

www.CollegeInColorado.org



AEROSPACE

Aerospace has taken off in Colorado, and if you're looking for an out-of-this-world career, you might have just found it. Aerospace jobs launch rockets, send missions to the moon and search for alien life in space – and this is just in the next few years! Besides space, our region's aerospace industry focuses on earth science activities that support climate monitoring and extreme weather forecasting, helping our planet and people.

Start Exploring Aerospace Careers

Step 1: Identify your interests

Compare your interests, skills and work values with Aerospace occupations using Labor Market Information's Career Explorer:

Visit www.colmigateway.com

- Click on "Services for Individuals"
- Choose "Career Services"

This will take you to "Career Explorer" where you can match your interests, skills and work values to occupations.

Step 2: Explore the Aerospace industry & careers

Learn about high-growth, in-demand careers and what they pay on the LMI Gateway website:

www.colmigateway.com

For more information on a career in Aerospace, check out www.spacefoundation.org, www.incose.org and www.spacecolorado.org

Step 3: Find education, training & financial aid

Discover the best education or training institutions for your career goals and how to get money for school at www.collegeincolorado.org

Step 4: Find available job openings

www.connectingcolorado.com

A Day In the Life of...

Matthew Dahl

Satellite Flight Controller

LASP

Boulder, CO

Instead of checking email, like many workers' days begin, Matthew starts out by checking spacecraft data. After reviewing the data and making sure everything is set for the day's activities, he'll sit down on-console with a student Command Controller and command a spacecraft to retrieve data collected since its last contact with the ground. After the contacts are done, he'll send out a shift report, detailing the day's activities.

For Matthew, the best part of his job is knowing when he goes into work he'll be in command of a spacecraft flying hundreds, in some cases thousands, of miles above the Earth, traveling at an incredible speed. He is a part of cutting-edge science improving human knowledge of the universe and our way of life.

Did you know? Aerospace isn't just engineering!

Machinists, Computer Specialists and Manufacturing Workers are employed in this industry as well. Metro Denver region ranks second in private-sector aerospace employment out of the 50 largest metropolitan areas.

A Day in the Life of...

Mari Gravlee

Advanced Programs Engineer
United Launch Alliance
Centennial, CO

On any given day, Mari could be reviewing test results from a rocket engine thruster or traveling to NASA to discuss the development of a test setup for cryogenic propellants. Her days can be hectic, but they are never dull. Although she has a bachelor of science in mechanical engineering, Mari says that communication – oftentimes an engineer’s weakest point – is one of the most important skills for her job. Being able to explain things to others and gain their support is very important.

Although she enjoys her day to day duties, nothing is as exciting as launch day. Mari says it’s incredible to see all the rocket systems working together to deliver a satellite into space.



Who do you want to be tomorrow?

Occupation	Wage Range	Minimum Education/Training	Suggested Programs of Study
Engineering Managers <i>Plan, coordinate & direct engineering design, production & research & development activities. They may supervise engineers, scientists, technicians & support personnel.</i>	\$112,169 - \$184,770	Bachelor's Degree	Aerospace Management, Engineering & Technology Management
Purchasing Agents <i>Purchase machinery, equipment, tools, parts, supplies, or services necessary for the operation of an establishment. Contract administrators are in this job category.</i>	\$44,595 - \$80,772	Bachelor's degree	Business
Logisticians <i>Analyze & coordinate the logistical functions of an organization. Responsible for the entire life cycle of a product, including acquisition, distribution, delivery, & final disposal of resources.</i>	\$50,695 - \$92,784	Bachelor's degree	Business; Supply Chain Management
Computer Systems Analysts <i>Analyze engineering data processing problems to implement & improve computer systems. Analyze user requirements, procedures, & problems to automate or improve existing systems.</i>	\$62,036 - \$110,989	Bachelor's degree	Computer Service/Network Technology, Computer Support Technician/Information Systems
Computer Software Engineers, Applications <i>Develop, create & modify general computer applications software or specialized utility programs. Design or customize software for client use, optimizing operational efficiency.</i>	\$71,280 - \$121,038	Bachelor's degree	Applied Computing Technology, Computer Science, Electrical & Computer Engineering
Computer Software Engineers, Systems Software <i>Research, design, develop, & test operating systems-level software, compilers, & network distribution software for aerospace computing applications.</i>	\$76,694 - \$126,653	Bachelor's degree	Computer Systems Engineering; Computer Engineering
Aerospace Engineers <i>Perform engineering duties in designing, constructing, & testing aircraft, missiles, & spacecraft. May conduct basic & applied research to evaluate adaptability of materials manufacture.</i>	\$79,608 - \$159,204	Bachelor's degree	Aerospace Engineering, Astrophysics/Physics, Astrophysical & Planetary Sciences
Electrical Engineers <i>Research, design, develop, test, or supervise the manufacturing & installation of electrical equipment, components, or systems for aerospace use.</i>	\$64,946 - \$113,580	Bachelor's degree	Electrical Engineering
Electronics Engineers <i>Research, design, develop, & test electronic components & systems for aerospace use utilizing knowledge of electronic theory. Design electronic circuits & components for use in aerospace.</i>	\$70,517 - \$118,743	Bachelor's degree	Electrical Engineering
Industrial Engineers <i>Design, develop, test & evaluate integrated systems for managing industrial production processes like quality/inventory control, logistics/material flow & cost analysis.</i>	\$62,063 - \$110,473	Bachelor's degree	Engineering Science, Industrial Maintenance Technology
Mechanical Engineers <i>Perform engineering tasks like planning/designing tools, engines, machines & other mechanical equipment. Supervise equipment installation, operation, maintenance & repair.</i>	\$58,690 - \$105,441	Bachelor's degree	Mechanical Engineering, Mechanical Engineering Technology
Aerospace Engineering & Operations Technicians <i>Operate, install, calibrate & maintain integrated computer/communications systems consoles, test/measurement instruments & equipment to launch, track & evaluate air & space vehicles.</i>	\$56,745 - \$84,118	Associate's degree	Aerospace Engineering, Aerospace Operations, Pre-Aerospace Engineering Technology
Electrical & Electronic Engineering Technicians <i>Apply electrical & knowledge to design, repair, calibrate, & modify electrical components, circuitry, controls, & machinery, usually under the direction of engineering staff.</i>	\$43,532 - \$75,097	Associate's degree	Electrical Engineering Technology
Industrial & Mechanical Engineering Technicians <i>Apply engineering theory & principles to problems of industrial manufacturing production & modify, develop, test, or calibrate machinery & equipment.</i>	\$38,771 - \$76,138	Associate's degree	Mechanical Engineering, Mechanical Engineering Technology
Electrical, Electronic, & Electromechanical Equipment Assemblers <i>Assemble or modify electrical, electronic, & electromechanical equipment/devices, such as computers, telemetry systems, gyros, dynamometers, & actuators.</i>	\$22,915 - \$41,239	1-12 months on-the-job training	On-the-job training



Apprenticeship

The National Institute for Metalworking Skills (NIMS), Inc. has developed a competency-based metalworking apprenticeship to support career development in the advanced manufacturing areas of Aerospace. This apprenticeship can lead to a job as a Machinist. For more information, visit NIMS at:

www.nims-skills.org/web/nims/home