

Getting There

Public University Programs	Colorado School of Mines	Colorado Mesa University	Colorado State University	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
Aerospace Engineering Sciences						B, G				
Applied Computing Technology			B							
Business	B		B, G		C	B, G	B, G		B	
Computer Engineering			B		B	B		B		
Computer Science	B, G	B	B, G		B	B, G	B, G	B, G		
Computer Systems Engineering			C							
Electrical Engineering	B, G		B, G			B, G	B, G	B, G		
Electrical Engineering Technology		C			C, B					
Engineering and Technology Management	G									
Industrial Engineering				B, G					B, G	B, G
Information Science						B, G, D				
Mechanical Engineering	B, G		B, G			B, G	B, G	B, G		
Mechanical Engineering Technology		A, B			B					
Software Engineering									B	B
Supply Chain Management						G				

C = Certificate, A = Associate's Degree, B = Bachelor's Degree, G = Graduate Degree

Community Colleges & Area Technical Colleges	Aims Community College	Arapahoe Community College	Community College of Denver	Northeastern Junior College	Pikes Peak Community College	Pueblo Community College	Red Rocks Community College	Trinidad State Junior College
Aerospace Technician			A					
Business		A, C	A				A, C	
Communications Media/Multimedia Technology	A, C							
Computer Science		A					C	
Electronic Technologies					A, C	A, C		
Graphic Design		A, C		A, C				A, C
Information Technology			A, C					

C = Certificate, A = Associate's Degree



INFORMATION TECHNOLOGY

Information Technology provides cutting-edge jobs for those looking for a high-tech career in an exciting field. A job in IT, and the skills and education related to IT, creates opportunities and opens doors to many industries and occupations. If you are interested in doing something different every day, thinking outside the box and working with the latest technology, an IT job might be the career path for you. Technology is evolving everyday – come define where it's going.

A Day In the Life of...

Brandon Arndt
Software Development Technician
 BOSS Software
 Lone Tree, CO

Brandon spends much of his day doing research and meeting with team members about software they are developing. Roughly 75% of his day is devoted to doing research on subjects relating to the code that he has to write and the remaining time is devoted to writing code and testing it.

The best thing about his job is that he gets to write code every day and focus on that almost exclusively. His work is mostly self-paced and he gets to decide how and when most of his job related tasks are done.

Mr. Arndt says that a passion for writing software and having talent for coding are extremely important to get his job. He says having a Bachelor of Science can make it easier to break into the industry, but you can also get into the industry by getting a certificate like Game Development through a community college. Brandon finds that he's constantly doing small math equations in the code he writes and says his math and programming classes still prove very useful. English was also very helpful since it helped him to learn techniques he uses to communicate the work he's done and to clearly document his work.

Start Exploring IT Careers

Step 1: Identify your interests

Compare your interests, skills and work values with IT 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 IT 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 IT, check out www.coloradotechnology.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

Did you know? IT is an industry in itself, but IT jobs are also found in every other industry. Careers in IT are open to anyone with the proper skills and education.



A Day in the Life of...

Peter Hathaway

IT Buyer & Asset Manager

National Renewable Energy

Laboratory (NREL)

Golden, CO

Peter works daily with customers to evaluate their needs and consult on the organizational requirements of NREL's standards. Based on that work, he makes recommendations for computer software and hardware. He is the middleman between end users and technicians as well as end users and IT vendors. Much of his time is spent responding to emails and record keeping on such things as updating purchasing systems, licensing databases, and the NREL IT internal ticketing system.

Peter enjoys performing a wide variety of activities, both technical and non-technical. He works on software licensing, evaluation of new hardware and developing

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Who do you want to be tomorrow?

Occupation	Wage Range	Minimum Education/Training	Suggested Programs of Study
Computer & Information Systems Manager <i>Plan, direct, or coordinate activities in such fields as electronic data processing, information systems, systems analysis, and computer programming</i>	\$103,467 - \$185,370	Bachelor's degree	Computer Science
Computer Systems Analysts <i>Analyze science, engineering, business & other data processing problems to implement & improve computer systems.</i>	\$62,036 - \$110,989	Bachelor's degree	Computer Science, Information Technology, Applied Computing Technology
Information Security Analysts <i>Plan, implement, upgrade, or monitor security measures for the protection of computer networks and information.</i>	\$71,584 - \$113,807	Bachelor's degree	Computer Science, Information Technology, Applied Computing Technology
Computer Programmers <i>Create, modify & test code, forms & scripts that allow computer applications to run.</i>	\$56,195 - \$103,560	Bachelor's degree	Computer Science, Information Technology, Applied Computing Technology
Computer Software Developers, Applications <i>Develop, create, & modify general computer applications software or specialized utility programs. Customize software for client use with the aim of optimizing operational efficiency.</i>	\$71,280 - \$121,038	Bachelor's degree	Computer Science
Computer Software Developers, Systems <i>Research, design, develop & test operating systems-level software, compilers & network distribution software. Apply principles of computer science, engineering & mathematics.</i>	\$76,694 - \$126,653	Bachelor's degree	Computer Science
Web Developers <i>Design, create, and modify Web sites. Analyze user needs to implement Web site content, graphics, performance, and capacity.</i>	\$38,017 - \$78,262	Associate's degree	Computer Science, Information Technology, Applied Computing Technology
Database Administrators <i>Coordinate changes to computer databases, test & implement database applying knowledge of database management systems. May plan, coordinate & implement security measures.</i>	\$62,307 - \$109,054	Bachelor's degree	Computer Science
Network & Computer Systems Administrators <i>Analyze, design, test & evaluate network systems, such as local area networks (LAN), wide area networks (WAN), Internet, & intranet. Perform network modeling, analysis & planning.</i>	\$55,042 - \$95,458	Bachelor's degree	Applied Computing Technology, Network Specialist in Information Systems
Computer Network Architects <i>Design / implement computer & information networks, such as LAN, WAN & intranets. Perform network modeling, analysis, and planning.</i>	\$70,752 - \$121,808	Bachelor's degree	Computer Science, Information Technology, Applied Computing Technology
Computer User Support Specialists <i>Provide technical assistance to computer users. Answer questions or resolve computer problems for clients in person, or via telephone or electronically.</i>	\$36,183 - \$66,628	Some College, No Degree	End User Support Specialist, Computer Service/Network Technology, Computer Support Technician/Information Systems
Computer & Network Support Specialists <i>Analyze, test, troubleshoot & evaluate existing network systems, such as LAN, WAN & network systems.</i>	\$45,065 - \$81,704	Associate's degree	Computer Science, Information Technology, Applied Computing Technology
Computer Hardware Engineers <i>Research, design, develop, or test computer or computer-related equipment for commercial, industrial, military, or scientific use.</i>	\$70,534 - \$125,228	Bachelor's degree	Computer Science, Information Technology, Applied Computing Technology
Multimedia Artists & Animators <i>Create special effects, animation / visual images using film, video, computers or other electronic tools & media for use in products or creations, such as computer games, movies & videos.</i>	\$40,147 - \$71,067	Bachelor's degree	Computer Aided Drafting, Communication Media/Multimedia Technology, 3-D Graphics & Animation, Game Design &/or Motion Graphics & Animation
Graphic Designers <i>Design / create graphics to meet specific commercial or promotional needs, such as packaging, displays or logos. May use a variety of mediums to achieve artistic or decorative effects.</i>	\$32,749 - \$62,753	Bachelor's degree	Graphic Design, Art & Design, with Graphic Design Emphasis
Sales Engineers <i>Sell business goods or services, the selling of which requires a technical background equivalent to a baccalaureate degree in engineering.</i>	\$67,405 - \$125,993	Bachelor's degree	Computer Science, Information Technology, Applied Computing Technology



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an organization's standards. Perhaps the best part of his job is gaining exposure to new technologies, while staying relevant and up-to-date with ever-changing technology.

Mr. Hathaway's educational history includes an undergraduate degree in religious studies. He says that most employers filling positions for IT Asset Managers look for applicants with degrees in business or finance. Peter worked his way through high school and college at law firms building the analytic and administrative skill set that made him employable in a previous job in IT purchasing. He was able to use the skills learned in that position to move forward. Peter credits his advanced math, physics, English and writing courses as most helpful to his current career. These courses challenged him to think analytically and provided communication skills crucial to his job today.