

Getting There



INFORMATION TECHNOLOGY

Public University Programs	University of Colorado at Boulder	University of Colorado at Denver	Colorado School of Mines	Colorado State University	Metropolitan State College of Denver	University of Northern Colorado
3-D Graphics & Animation		C				
Applied Computing Technology				B		
Art & Design, with Graphic Design Emphasis						B, G
Broadcast/Video Production	B	B			C	
Business	B, G	B, G	B	B, G	C	B
Computer Science	B, G	B, G	B, G	B, G	B	B
Electrical Engineering	B, G	B, G	B, G	B, G	B	
End User Support Specialist					C	
Engineering & Technology Management			G			
Geography &/or Geographic Information Systems (GIS)	B, G	B			C	B
Management	B	B, G		B	B	C
Marketing	B	B, G		B	B	C
Network Specialist in Information Systems					C	
Surveying & Mapping					B	

B = Bachelor's Degree, G = Graduate Degree, C = Concentration/Certificate

Community Colleges & Area Technical Colleges	Aims Community College	Arapahoe Community College	Community College of Aurora	Community College of Denver	Front Range Community College	Red Rocks Community College	Emily Griffith Opportunity School	Pickens Technical College
Business	A, C	A, C	A, C	A, C	A, C	A, C		C
Communication Media/Multimedia Technology	A, C				A, C			
Computer Aided Drafting	A, C	C			A, C			C
Computer Science	A, C		A	A	A	A		
Computer Service/Network Technology		A, C	A, C	A			C	C
Computer Support Technician/Information Systems	A, C	A, C	A, C	A, C	A, C	A, C	C	
Electrical Engineering/General Electronics Technology						A		C
Film/Video Technology &/or Video Production			A, C			A, C		
Game Design &/or Motion Graphics & Animation	C					A, C		
Geography &/or Geographic Information Systems (GIS)		A, C			A, C		C	
Graphic Design	A, C	A, C		A, C		A, C		C
Information Technology				A				
Management	A, C	A, C	A		A, C	C		
Marketing	A	A, C	A		A, C			
Microsoft Database Administrator						A, C		

C = Certificate, A = Associate Degree

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.

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/education
- 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...

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.

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.



Want more Education?

www.Collegeincolorado.org

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 (Employment)	Minimum Education/Training	Suggested Programs of Study
Management Analysts <i>Conduct organizational studies, design systems, conduct measurement studies, & prepare operations & procedures manuals to assist management in operating more efficiently.</i>	\$47,747 - \$100,566 (8210)	Work experience + Bachelor's Degree	Engineering & Technology Management, Management
Computer & Information Scientists, Research <i>Conduct research into fundamental computer & information science as theorists, designers or inventors. Solve or develop solutions to problems in the field of computer hardware & software.</i>	\$62,754 - \$119,812 (220)	Doctoral Degree	Computer Science
Computer Systems Analysts <i>Analyze science, engineering, business & other data processing problems to implement & improve computer systems.</i>	\$59,687 - \$112,269 (10570)	Bachelor's Degree	Computer Science, Information Technology, Applied Computing Technology
Information Security Analysts <i>Plan, implement, upgrade / monitor security measures for protection of computer networks.</i>	\$59,751 - \$92,639 (1190)	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>	\$51,720 - \$107,686 (4100)	Bachelor's Degree	Computer Science, Information Technology, Applied Computing Technology
Computer Software Engineers, Applications <i>Develop, create & modify general computer applications software / specialized utility programs.</i>	\$58,541 - \$108,690 (20590)	Bachelor's Degree	Computer Science
Computer Software Engineers, Systems <i>Research, design, develop & test operating systems-level software, compilers & network distribution software. Apply principles of computer science, engineering & mathematics.</i>	\$72,247 - \$117,807 (11240)	Bachelor's Degree	Computer Science
Web Developers <i>Design, create or modify web sites.</i>	\$38,585 - \$77,225 (2620)	Post-secondary vocational training	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>	\$52,450 - \$99,918 (2160)	Bachelor's Degree	Microsoft Database Administrator
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>	\$51,767 - \$92,590 (9120)	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</i>	\$61,007 - \$112,466 (3310)	Bachelor's Degree	Computer Science, Information Technology, Applied Computing Technology
Computer User Support Specialists <i>Provide technical assistance to computer system users.</i>	\$35,239 - \$64,254 (12930)	Associate 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>	\$42,932 - \$78,158 (5040)	Bachelor's Degree	Computer Science, Information Technology, Applied Computing Technology
Electrical & Electronic Engineering Technicians <i>Lay out, build, test, troubleshoot, repair & modify developmental/production electronic components, parts, equipment & systems. Usually work under direction of engineering staff.</i>	\$40,576 - \$69,216 (2070)	Associate Degree	General Electronics Technology, Electrical Engineering
Multi-media 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>	\$42,982 - \$70,801 (640)	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>	\$28,955 - \$53,072 (4060)	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>	\$61,064 - \$121,245 (1130)	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.

