

INFORMATION TECHNOLOGIES

WORKFORCE OF JEFFERSON COUNTY, COLORADO



Industry Description and Employment Trends

Jefferson County's information technologies industry includes companies that manufacture computers and computer storage solutions to manage and protect electronic information. Companies in this industry are also involved in activities ranging from the development of off-the-shelf software products to custom computer programming, computer facilities management, computer systems design, and data processing services. Further, companies that provide network solutions, web-based applications, and operating systems are also included.

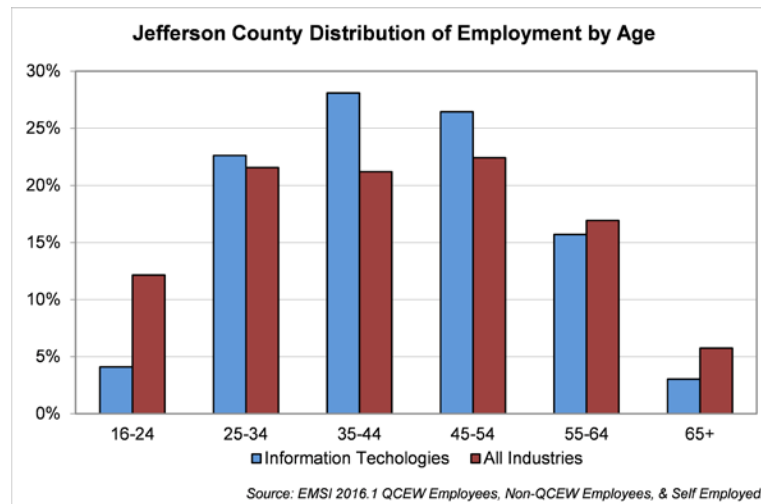
Employment in the nine-county Metro Denver and Northern Colorado region's¹ information technologies employment rose 3 percent in 2015. From 2010 and 2015, the region's information technologies employment rose 22.1 percent. About 13 percent of the information technologies employment in the nine-county region is located in Jefferson County.

¹The nine-county region is comprised of two principal areas, Metro Denver and Northern Colorado. Metro Denver consists of Adams, Arapahoe, Boulder, Broomfield, Denver, Douglas, and Jefferson counties. Northern Colorado consists of Larimer and Weld counties.

Workforce Profile

Jefferson County's labor force includes nearly 311,500 individuals, representing 19 percent of the total labor force in Metro Denver and 11 percent of the state's labor force. Jefferson County's labor force includes a large pool of talented, well-educated, and highly skilled workers. Of Jefferson County's adult population, 42 percent are college graduates and 94.1 percent have graduated from high school. Jefferson County's information technologies industry has a larger share of employees that are between the ages of 25 and 54 years old (77.2 percent), compared with the age distribution across all industries (65.2 percent).

Information technologies companies are generally seeking individuals with a high level of education and specialized training. About 69 percent of information technologies-related occupations in Jefferson County require a bachelor's degree or higher, while 19.6 percent require a high school diploma or equivalent. Of the information technologies-related occupations, 22.6 percent require some sort of on-the-job training.



Wages 20 Largest Information Technologies Occupations in Jefferson County	Median Salary	10th Percentile Salary	25th Percentile Salary	75th Percentile Salary	90th Percentile Salary
1. Software Developers, Applications	\$91,307	\$59,057	\$73,147	\$111,418	\$133,592
2. Software Developers, Systems Software	\$94,993	\$60,384	\$76,650	\$115,360	\$139,973
3. Computer Systems Analysts	\$75,936	\$52,098	\$61,868	\$98,741	\$128,251
4. Computer User Support Specialists	\$49,239	\$32,099	\$38,948	\$64,059	\$79,093
5. Business Operations Specialists, All Other	\$70,617	\$37,878	\$50,886	\$92,639	\$119,831
6. Computer Programmers	\$78,210	\$51,649	\$62,760	\$103,683	\$145,707
7. Network & Computer Systems Administrators	\$74,749	\$46,239	\$58,804	\$89,556	\$106,641
8. Sales Representatives, Services, All Other	\$49,564	\$22,680	\$33,232	\$72,900	\$106,468
9. Computer & Information Systems Managers	\$128,408	\$87,882	\$106,217	\$158,208	\$258,833
10. Computer Occupations, All Other	\$88,928	\$51,359	\$68,147	\$109,282	\$128,399
11. General & Operations Managers	\$105,047	\$49,563	\$70,421	\$164,166	\$237,120
12. Web Developers	\$50,108	\$36,141	\$40,909	\$65,372	\$83,536
13. Customer Service Representatives	\$30,368	\$21,245	\$25,142	\$37,996	\$46,164
14. Accountants & Auditors	\$62,096	\$38,096	\$47,330	\$80,883	\$102,307
15. Secretaries & Administrative Assistants, Except Legal, Medical, & Executive	\$34,448	\$22,174	\$27,436	\$42,775	\$50,947
16. Computer Network Architects	\$93,169	\$55,222	\$72,531	\$110,696	\$132,757
17. Computer Hardware Engineers	\$91,555	\$50,415	\$70,417	\$111,157	\$131,487
18. Sales Representatives, Wholesale & Manufacturing, Technical & Scientific Products	\$85,386	\$37,480	\$54,792	\$113,570	\$171,080
19. Market Research Analysts & Marketing Specialists	\$65,280	\$37,676	\$48,572	\$88,162	\$125,116
20. Management Analysts	\$69,230	\$42,527	\$55,598	\$88,217	\$121,649

Wages & Occupations

The 2015 average annual salary of information technologies workers in Jefferson County was \$106,200, compared with the average of \$51,300 for all workers in Jefferson County. The table below includes data for the 20 largest information technologies occupations in the county. It portrays the industry workforce supply as consisting of three main components: those currently working in that occupation either in the industry or in a similar job in some other industry (total working across all industries); the number of available applicants that would like to be working in that occupation; and the number of recent graduates that are qualified for that occupation.



Occupation Data 20 Largest <i>Information Technologies</i> Occupations in Jefferson County	Total Working Across All Industries (2015)	Number of Available Applicants (2016)¹	Number of Graduates (2014)²	2015-2020 Projected Occupation Growth Rate
1. <i>Software Developers, Applications</i>	2,227	43	1,478	11.0%
2. <i>Software Developers, Systems Software</i>	1,232	29	1,553	11.4%
3. <i>Computer Systems Analysts</i>	1,020	53	1,869	14.7%
4. <i>Computer User Support Specialists</i>	1,151	144	1,085	13.6%
5. <i>Business Operations Specialists, All Other</i>	4,609	107	49	3.5%
6. <i>Computer Programmers</i>	479	42	777	10.4%
7. <i>Network & Computer Systems Administrators</i>	895	79	939	8.3%
8. <i>Sales Representatives, Services, All Other</i>	1,960	141	52	8.2%
9. <i>Computer & Information Systems Managers</i>	584	72	1,719	11.3%
10. <i>Computer Occupations, All Other</i>	1,063	59	1,572	2.8%
11. <i>General & Operations Managers</i>	3,774	206	9,551	7.4%
12. <i>Web Developers</i>	352	17	2,935	13.4%
13. <i>Customer Service Representatives</i>	3,255	449	0	5.0%
14. <i>Accountants & Auditors</i>	3,531	27	1,124	6.3%
15. <i>Secretaries & Administrative Assistants, Except Legal, Medical, & Executive</i>	5,526	83	70	8.4%
16. <i>Computer Network Architects</i>	382	17	2,935	7.9%
17. <i>Computer Hardware Engineers</i>	306	8	82	8.8%
18. <i>Sales Representatives, Wholesale & Manufacturing, Technical & Scientific Products</i>	698	52	49	14.0%
19. <i>Market Research Analysts & Marketing Specialists</i>	1,178	14	302	18.0%
20. <i>Management Analysts</i>	1,537	39	9,358	17.8%

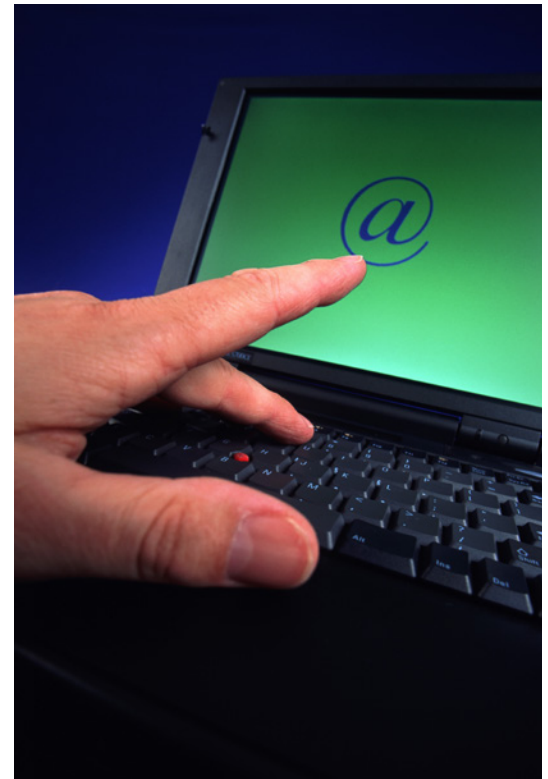
¹The number of available applicants is a point-in-time measurement of the number of people who have registered in Colorado's workforce development system's statewide database, Connecting Colorado, as being able and available to work in a particular occupation. Results should be interpreted with caution since registration in Connecting Colorado is self-reported. In addition, the skills rubric may assign up to four occupation codes for each registrant. Therefore, the number of available applicants could be inflated.

²The number of graduates represents a 10-county region consisting of Adams, Arapahoe, Boulder, Broomfield, Denver, Douglas, El Paso, Jefferson, Larimer, and Weld Counties. Sources: EMSI 2016.1 QCEW Employees, Non-QCEW Employees, & Self-Employed; Connecting Colorado, 2016.

Educational Institutions

The 10-county region's² educational institutions provide an excellent support system for area businesses. There are 28 public higher education institutions in Colorado, of which eight four-year and seven two-year public institutions offering comprehensive curricula are located in the 10-county region. In addition, there are more than 100 private and religious accredited institutions and nearly 380 private occupational and technical schools offering courses in dozens of program areas throughout the state. Although not exhaustive, a list of the major, accredited educational institutions with the greatest number of graduates for the largest information technologies occupations in Jefferson County are included below. A directory of all higher education institutions with corresponding websites may be accessed via highered.colorado.gov.

- **Colorado State University**
www.colostate.edu
- **Colorado Technical University Online**
www.coloradotech.edu
- **University of Colorado: Boulder, Colorado Springs, Denver**
www.cu.edu
- **Colorado State University Global Campus**
www.colostate.edu
- **Metropolitan State University of Denver**
www.msudenver.edu
- **University of Denver**
www.du.edu
- **Colorado Technical University Colorado Springs**
www.coloradotech.edu/colorado-springs



- **Regis University**
www.regis.edu
- **Red Rocks Community College**
www.rrcc.edu
- **Arapahoe Community College**
www.arapahoe.edu
- **Front Range Community College**
www.frontrange.edu

²The 10-county region consists of the Metro Denver and Northern Colorado region and El Paso County.



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