



2022

Information Technology **INDUSTRY PROFILE**

for Arapahoe & Douglas Counties
Colorado WIOA Central Planning Region



Colorado Central Planning Region

Arapahoe/Douglas
WORKFORCE BOARD
C O L O R A D O

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GEOGRAPHICAL AREA

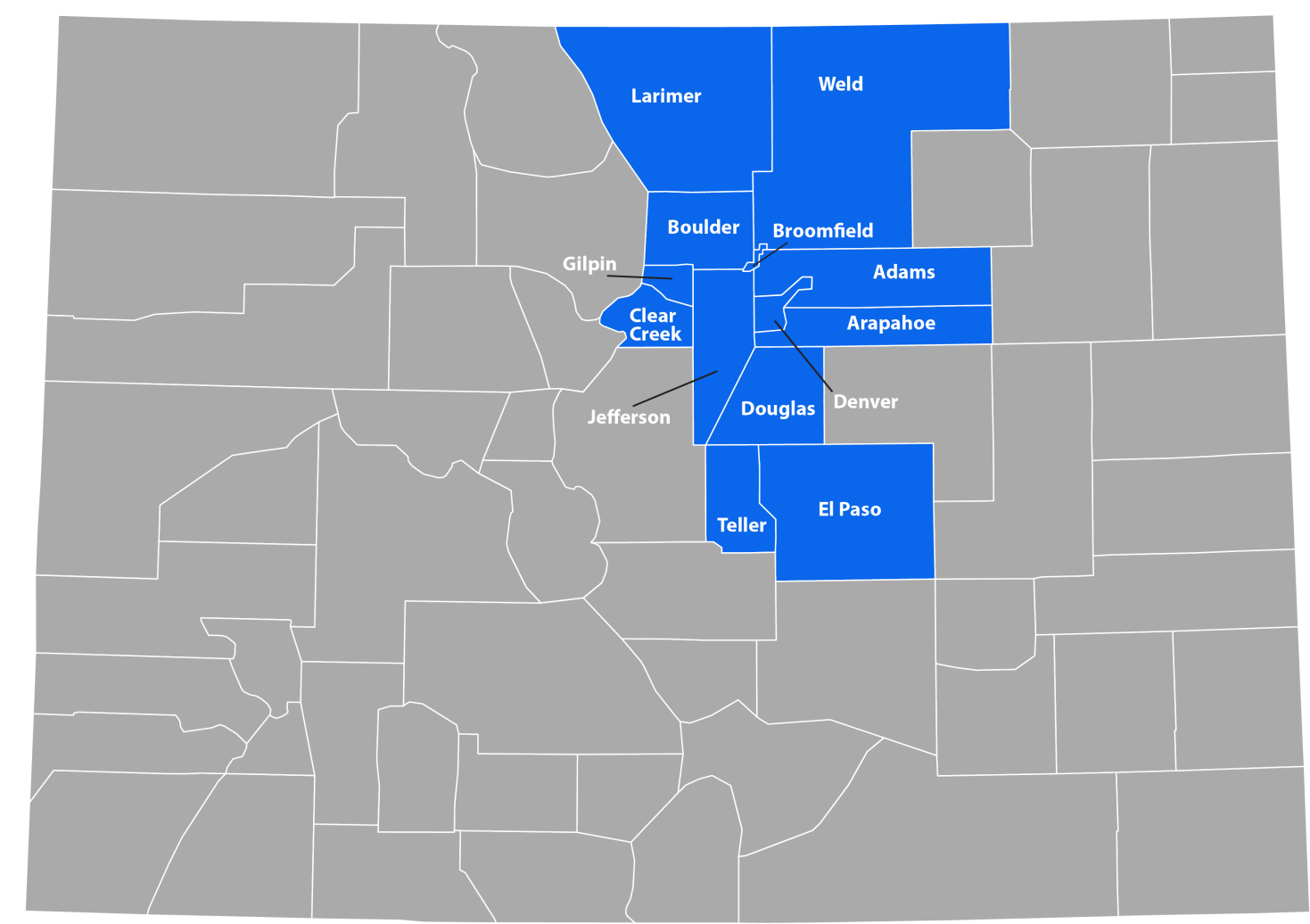
The geographic area for this industry profile includes the 13 counties that make up Colorado’s Urban Front Range.

The geographic region includes the following metropolitan areas:

- Boulder
- Colorado Springs
- Denver-Aurora-Lakewood
- Fort Collins
- Greeley

In 2021, this thirteen-county region employed nearly 2.6 million people across all industries, and made up over 85% of Colorado’s total employment.

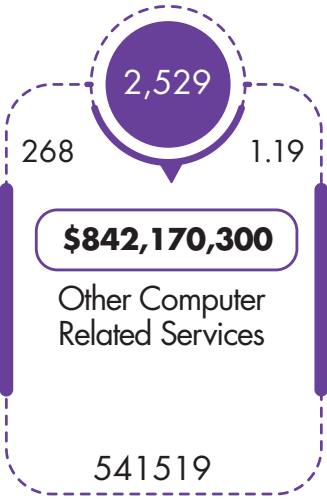
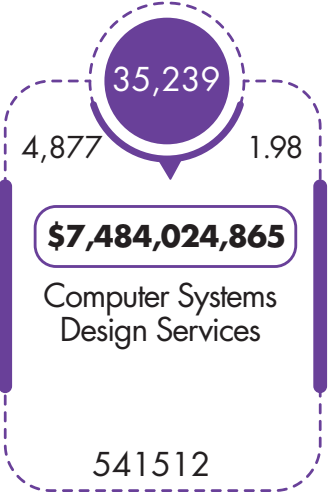
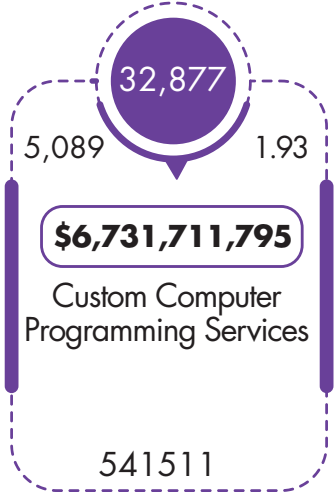
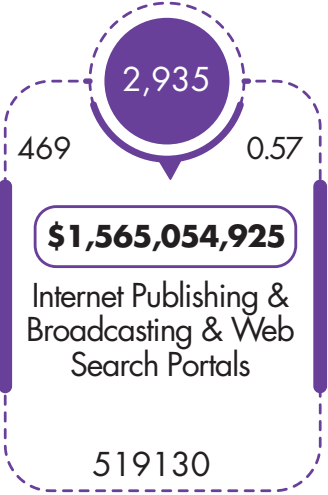
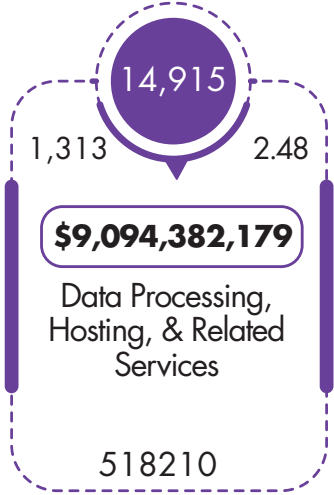
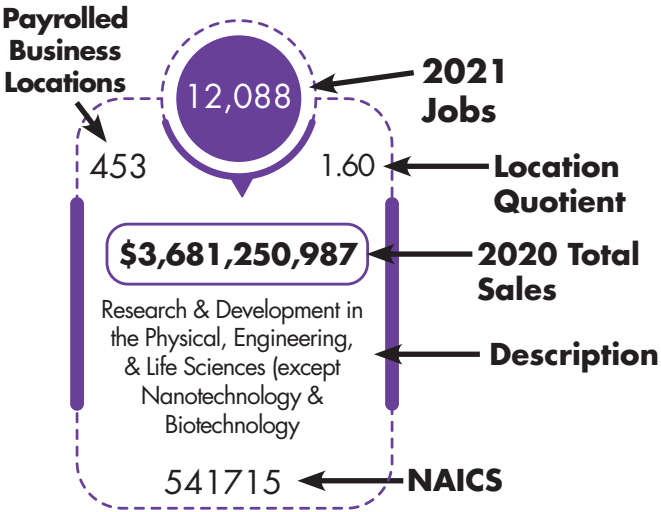
In 2020, the gross regional product (GRP) for Colorado’s Urban Front Range was \$312.76 billion, which made up around 1.7% of the national GRP. GRP is the total market value of all goods and services produced in the region.



INDUSTRIES MAKING UP THE SECTOR

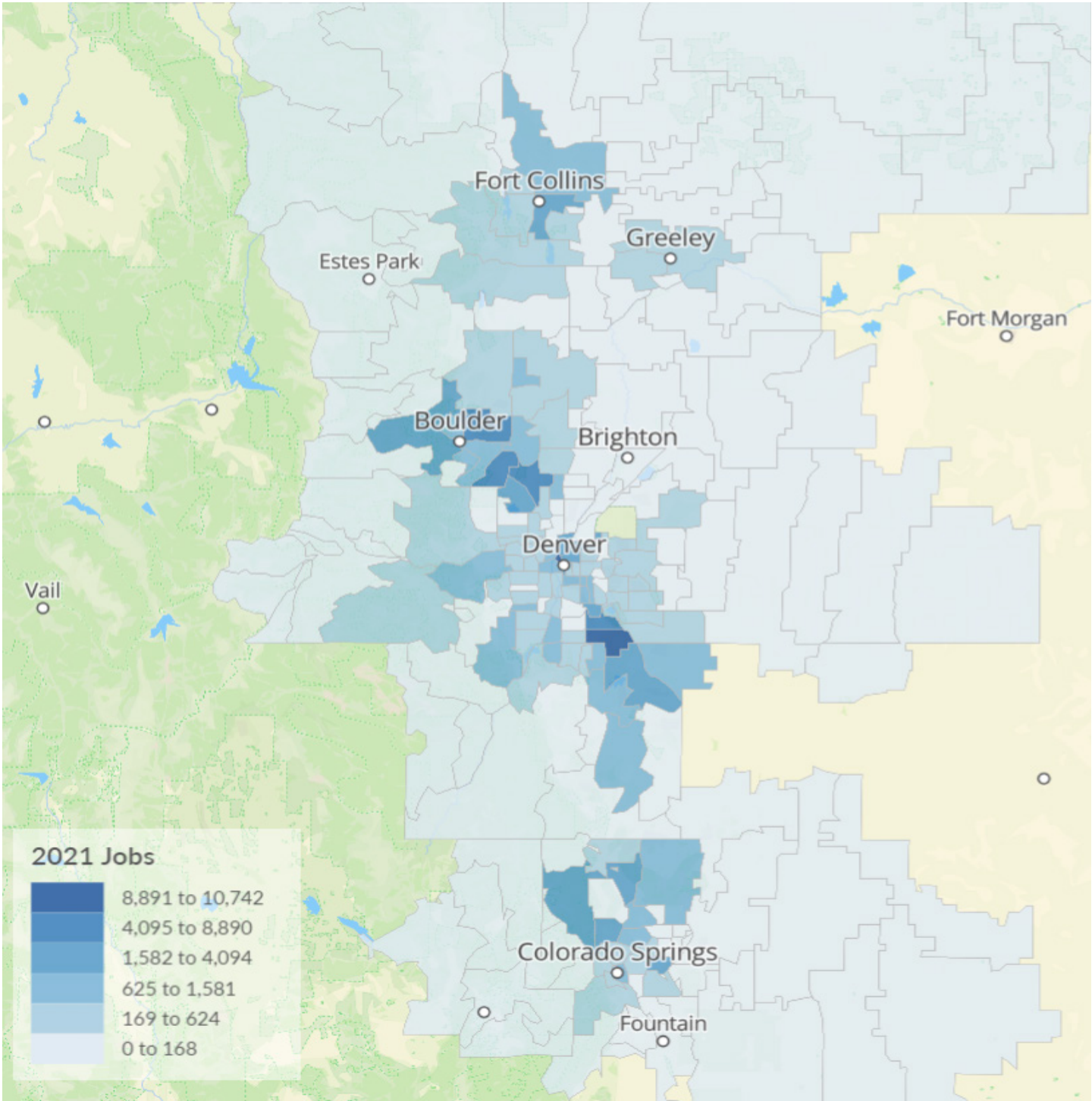
The Information Technology Sector employs 106,438 people in 12,941 payrolled business locations along Colorado’s Urban Front Range. In 2021, the sector had \$35 billion in sales, and contributed \$25.3 billion to the region’s Gross Regional Product. The region’s geographic location and extensive infrastructure ensures a strong global supply chain, and a diversified business climate. In addition, ready access to highly skilled workers and world-class research institutions offers employers in the Sector many advantages in a global economy.

Note:
Location Quotient is a measure of the employment concentration in any given industry relative to the national average.



TOTALS
2021 Jobs - 106,438
Payrolled Business Locations - 12,941
Location Quotient - 1.98
Total Sales - \$35,024,925,319

EMPLOYMENT CONCENTRATION MAP



Source: EMSI Burning Glass

EMPLOYMENT CONCENTRATION

The Colorado Urban Front Range is the definitive tech hub between the coasts, and continues to be a magnet for information technology start-ups and legacy businesses. Employment in the sector is highly concentrated, with computer system design and related services and software publishing ranging from 1.95 to 2.48 times the national average.

Note: A supplement is any kind of employer paid benefit beyond wage or salary.

Jobs and Average Earnings by County

County	2021 Jobs	Average Wage & Salaries	Average Cost of Supplements
Denver	28,681	\$151,728	\$21,205
Boulder	17,715	\$172,374	\$23,278
Arapahoe	17,558	\$131,764	\$18,503
El Paso	12,833	\$119,255	\$16,187
Jefferson	9,438	\$116,828	\$16,091
Douglas	7,510	\$130,090	\$17,707
Broomfield	4,877	\$164,374	\$23,512
Larimer	4,646	\$104,164	\$13,813
Adams	2,084	\$119,993	\$15,412
Weld	949	\$108,617	\$13,268
Teller	100	\$71,935	\$6,379
Clear Creek	27	\$111,888	\$11,325
Gilpin	20	\$97,142	\$10,042
TOTALS	106,438	\$140,737	\$19,379

Source: EMSI Burning Glass

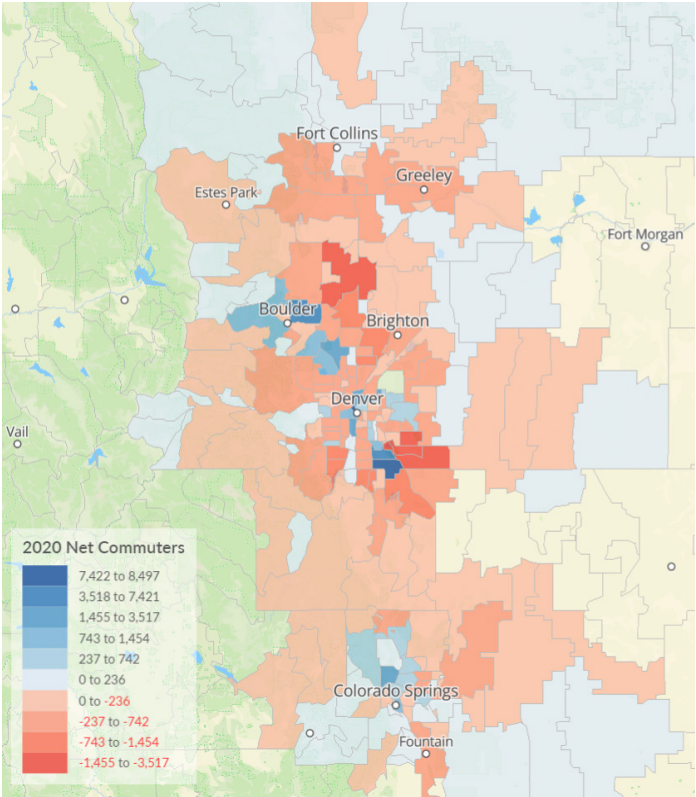
WHERE CORE WORKFORCE LIVES

Every industry sector has a group of occupations that it needs to produce its good or render its service. This is called a staffing pattern, and these staffing patterns include management, business and financial occupations, administrative and support occupations, and core occupations.

Core occupations in the Sector include some installation, maintenance and repair occupations, and production occupations. This map shows where the core workers in the industry live (orange) and where they work (blue).

For this industry, the core occupations are defined as follows:

- Computer & Mathematical



County	Net Commuters	Resident Workers	Jobs
Denver	11,706	19,838	31,545
Arapahoe	4,263	17,823	22,086
Boulder	4,071	11,942	16,013
Broomfield	1,633	3,246	4,879
El Paso	610	17,432	18,043
Gilpin	(41)	88	46
Clear Creek	(46)	96	50
Teller	(295)	500	204
Larimer	(695)	6,647	5,952
Weld	(4,084)	5,746	1,662
Adams	(4,510)	10,364	5,853
Douglas	(4,861)	13,379	8,517
Jefferson	(5,638)	17,960	12,322

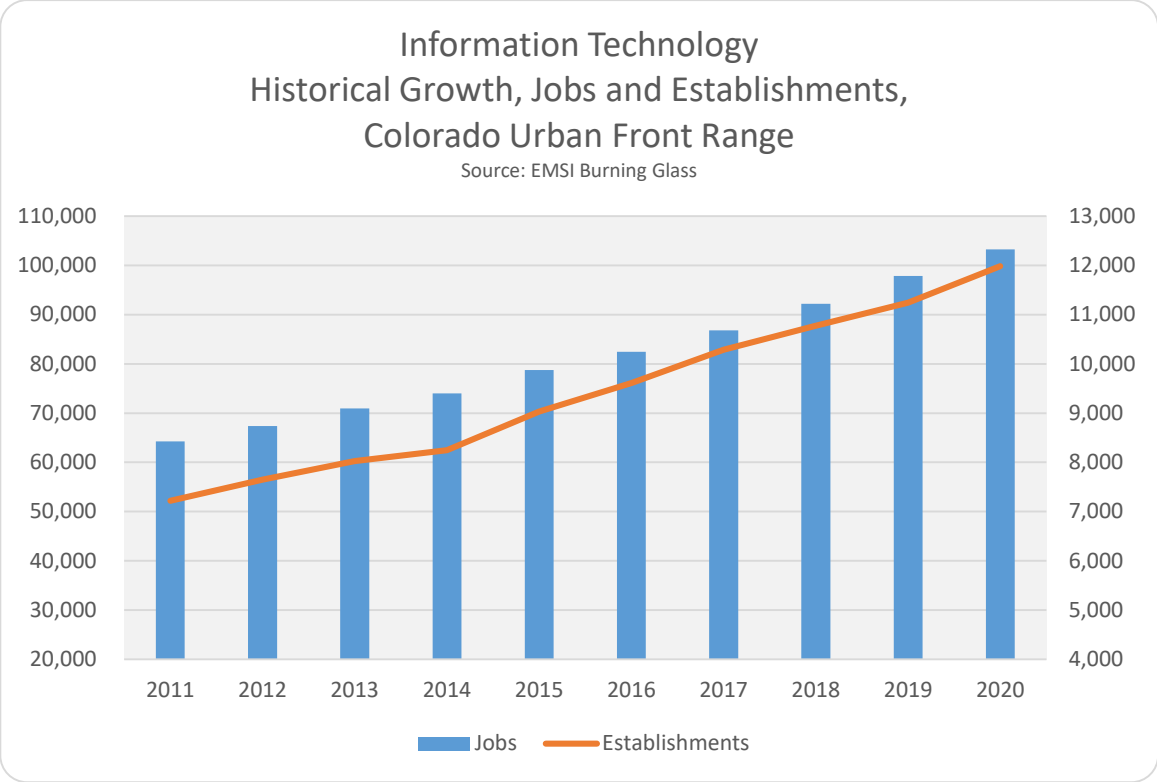
Source: EMSI Burning Glass

INFORMATION TECHNOLOGY

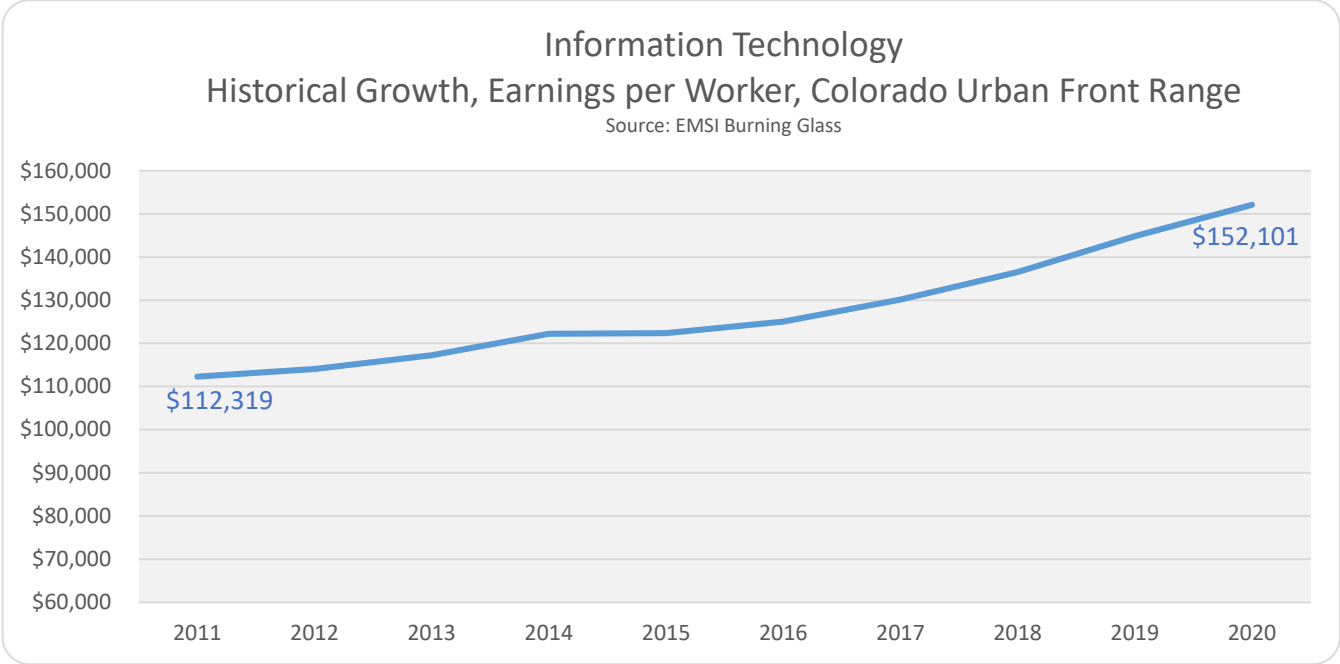
HISTORICAL TRENDS & GROWTH

- Over the last decade, employment in the Information Technology Sector grew by 39,016 jobs, an annual growth rate of 5.4%.
- The number of establishments grew annually by 5.8% over the same time period, moving from 7,223 in 2011 to 11,988 in 2020.
- Average worker earnings in the sector, which includes wages, salaries, and compensation, grew from \$112,319 in 2011 to \$152,101 in 2020, an annual growth rate of 3.4%.

Historical Trends



Historical Growth



INFORMATION TECHNOLOGY

PROJECTED GROWTH

The Information Technology Sector is expected to grow at an annual rate of 3.9%, with the number of jobs increasing to 123,949 by 2025. The Urban Front Range continues to be a national hub for tech talent.

Note:
Location Quotient is a measure of the employment concentration in any given industry relative to the national average.

NAICS	Description	2021 Jobs	2025 Jobs	2021-2025 Change	Location Quotient	2020 Payrolled Business Locations
511210	Software Publishers	17,001	18,615	1,615	2.05	847
518210	Data Processing, Hosting, & Related Services	14,915	17,349	2,435	2.48	1,313
519130	Internet Publishing & Broadcasting & Web Search Portals	2,935	3,286	351	0.57	469
541511	Custom Computer Programming Services	32,877	39,918	7,041	1.93	5,089
541512	Computer Systems Design Services	35,239	41,048	5,809	1.98	4,877
541513	Computer Facilities Management Services	942	1,020	78	0.73	78
541519	Other Computer Related Services	2,529	2,712	182	1.19	268
	TOTALS	106,438	123,949	17,511	1.02	12,941

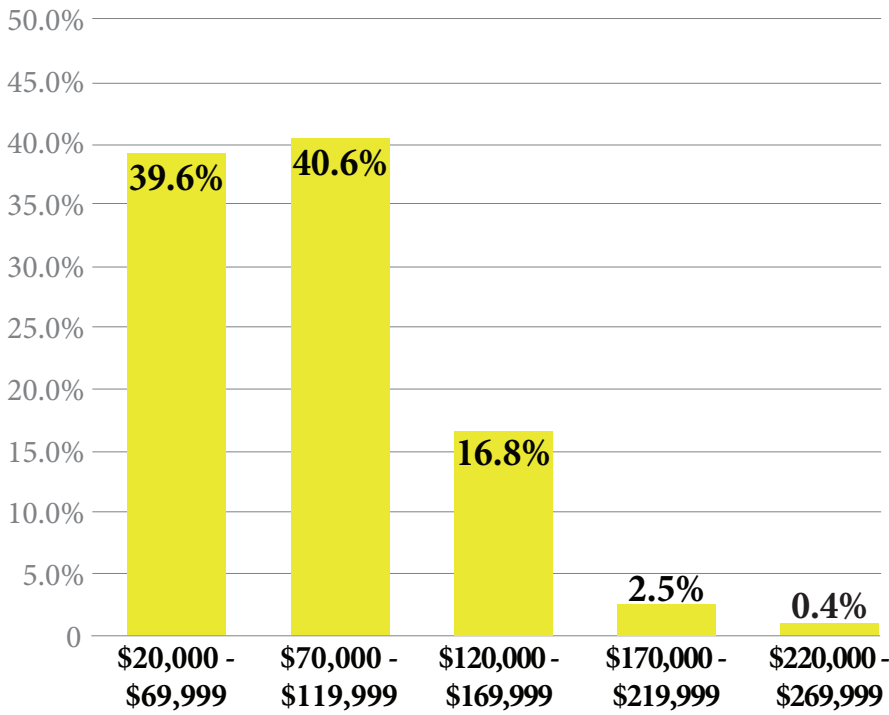
Source: EMSI Burning Glass



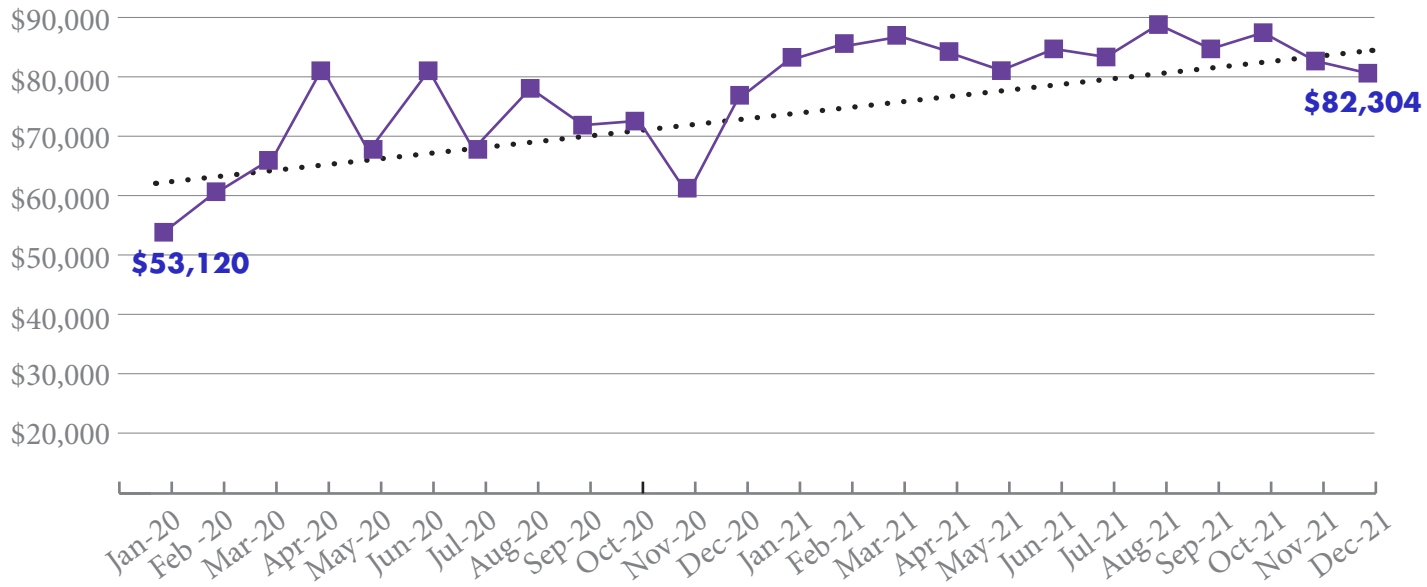
WAGE TRENDS

The bar graph and the line graph below are from EMSI Burning Glass, and reflect wage trends in job postings for the industry. The bar graph shows the posting wage curve for 2021 to date, with the median posted annual wage \$85,376. The line graph below shows the median wage from job postings by month over a three-year period.

Salary Range of Unique Job Postings



Advertised Wage Trends



COMPETITIVE WAGE ANALYSIS

This table shows employment within the Colorado Urban Front Range in the top 20 occupations in the sector. Regional wage ranges and the median wage are shown.

SOC Code	Description	# Jobs in Industry	% of Total Employment in Industry	# Jobs across Industries		Average Annual Openings	Average Wage	10th Percentile Wage	25th Percentile Wage	Median Wage	75th Percentile Wage	90th Percentile Wage
11-1021	General & Operations Managers	1,768	1.7%	32,731		3,590	\$71.32	\$26.57	\$39.11	\$60.37	\$93.63	\$132.71
11-3021	Computer & Information Systems Managers	3,350	3.1%	8,337		914	\$83.80	\$53.22	\$64.68	\$78.20	\$96.97	\$151.21
13-1111	Management Analysts	1,467	1.4%	16,673		2,110	\$54.98	\$21.88	\$31.45	\$45.46	\$63.72	\$93.62
13-1161	Market Research Analysts & Marketing Specialists	2,924	2.7%	20,905		2,766	\$38.24	\$19.01	\$24.81	\$34.11	\$47.97	\$64.47
13-1198	Project Management Specialists & Business Operations Specialists, All Other	5,092	4.8%	51,871		4,714	\$43.94	\$22.65	\$29.41	\$40.16	\$54.02	\$69.13
13-2011	Accountants & Auditors	1,627	1.5%	35,865		3,885	\$41.50	\$22.67	\$28.06	\$37.08	\$50.48	\$65.31
15-1211	Computer Systems Analysts	4,880	4.6%	11,633		1,177	\$51.10	\$30.63	\$37.91	\$48.99	\$61.67	\$75.85
15-1212	Information Security Analysts	1,630	1.5%	4,362		516	\$52.15	\$31.64	\$40.09	\$50.72	\$63.38	\$77.06
15-1231	Computer Network Support Specialists	1,377	1.3%	4,079		405	\$36.94	\$21.04	\$25.82	\$34.23	\$45.04	\$57.98
15-1232	Computer User Support Specialists	6,680	6.3%	15,409		1,555	\$30.02	\$18.36	\$21.96	\$27.76	\$35.74	\$45.39
15-1241	Computer Network Architects	2,488	2.3%	6,194		468	\$60.30	\$37.46	\$46.52	\$59.13	\$72.92	\$85.89
15-1244	Network & Computer Systems Administrators	3,627	3.4%	11,514		949	\$44.45	\$27.51	\$33.74	\$42.81	\$53.84	\$64.81
15-1251	Computer Programmers	1,537	1.4%	2,420		229	\$42.58	\$20.34	\$29.17	\$40.13	\$51.95	\$63.80
15-1256	Software Developers & Software Quality Assurance Analysts & Testers	27,756	26.1%	50,056		5,808	\$54.39	\$32.71	\$40.77	\$53.14	\$66.32	\$79.67
15-1257	Web Developers & Digital Interface Designers	2,736	2.6%	5,225		528	\$37.10	\$16.75	\$23.58	\$33.28	\$45.53	\$62.40
15-1299	Computer Occupations, All Other	4,365	4.1%	11,969		1,162	\$52.88	\$28.48	\$37.71	\$50.03	\$64.88	\$80.54
17-2061	Computer Hardware Engineers	1,732	1.6%	4,306		317	\$57.19	\$33.93	\$43.00	\$55.62	\$69.96	\$85.21
41-3091	Sales Representatives of Services, Except Advertising, Insurance, Financial Services, & Travel	4,725	4.4%	27,983		3,643	\$39.57	\$14.30	\$20.33	\$31.12	\$49.08	\$77.86
41-4011	Sales Representatives, Wholesale & Manufacturing, Technical & Scientific Products	1,430	1.3%	6,274		741	\$53.28	\$23.62	\$32.67	\$45.55	\$67.10	\$89.25
43-4051	Customer Service Representatives	2,559	2.4%	44,606		6,184	\$19.07	\$12.44	\$14.14	\$17.56	\$22.30	\$27.88

Source: EMSI Burning Glass

COMPETITIVE WAGE ANALYSIS

Due to the timeframes in which wage data is collected and collated, Colorado’s 2022 minimum wage of \$12.56 per hour may not be accurately reflected in some of the wages listed in the table. House Bill 1210, passed in late 2019, has allowed local governments to set higher wages. These municipal minimum wages will also not be accurately reflected in some of the wages listed in the table.

TOP ONLINE PROFILES & REGIONAL BENCH STRENGTH

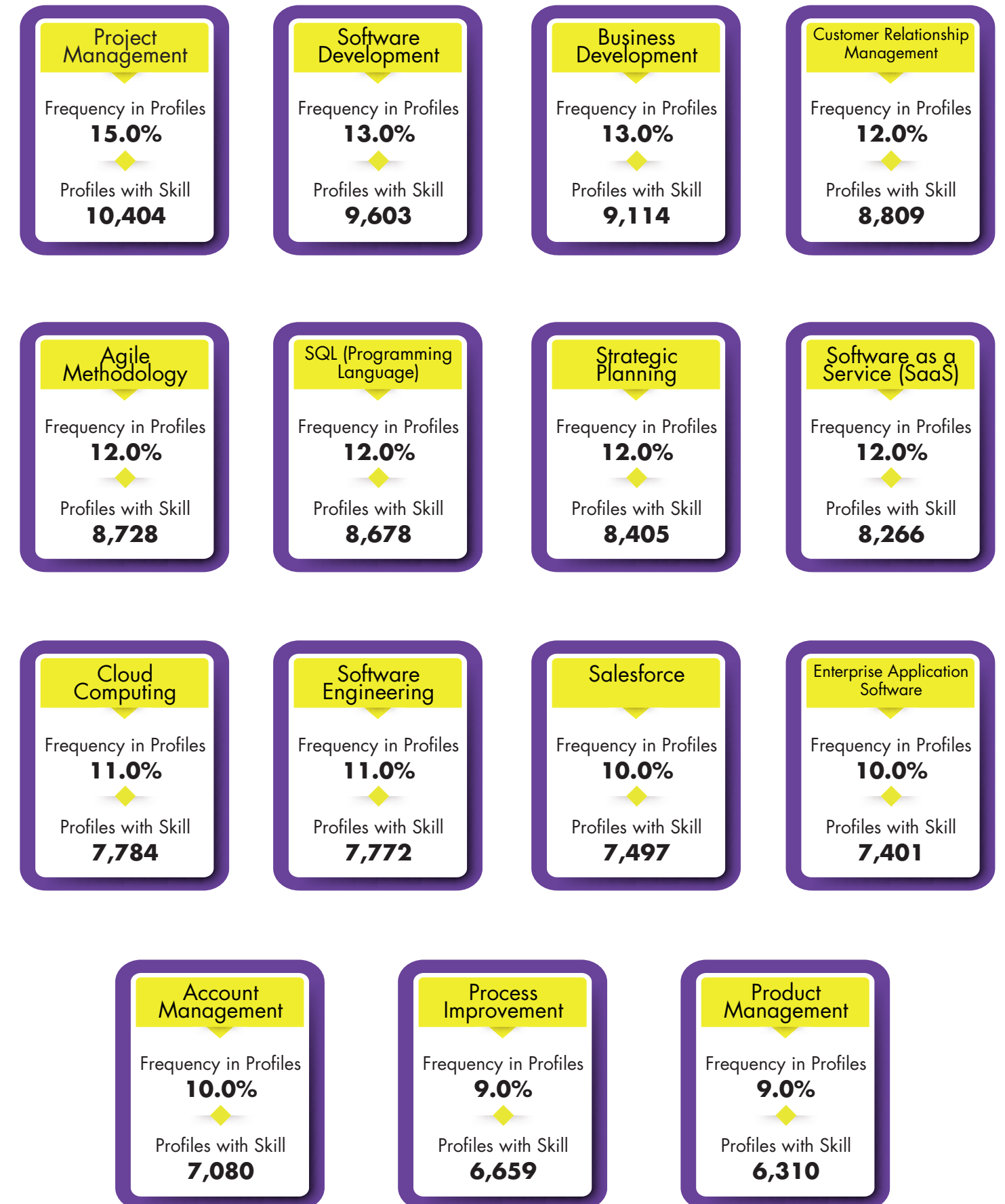
EMSI Burning Glass has access to over 102 million online resumes throughout the United States, and offers analytical data on those profiles. This table shows online profiles of people working in the Sector that have been updated at some time in calendar 2021. While not all of these people may be presently looking for work, the fact they have recently updated their online resumes suggests they may be open to new opportunities.

Occupation	Profiles	Percent
Software Developers & Software Quality Assurance Analysts & Testers	8,556	12.0%
Marketing Managers	4,430	6.2%
Computer Occupations, All Other	3,612	5.1%
Sales Managers	3,228	4.5%
Personal Service Managers, All Other; Entertainment & Recreation Managers, Except Gambling; & Managers, All Other	2,881	4.0%
Network & Computer Systems Administrators	2,778	3.9%
Computer User Support Specialists	2,777	3.9%
Sales Representatives of Services, Except Advertising, Insurance, Financial Services, & Travel	2,304	3.2%
Management Analysts	2,286	3.2%
Computer & Information Systems Managers	2,257	3.2%
First-Line Supervisors of Office & Administrative Support Workers	2,122	3.0%
Chief Executives	2,061	2.9%
General & Operations Managers	2,049	2.9%
Computer Systems Analysts	1,529	2.1%
Customer Service Representatives	1,486	2.1%
Architectural & Engineering Managers	1,236	1.7%
Financial Managers	1,009	1.4%
Information Security Analysts	839	1.2%
Project Management Specialists & Business Operations Specialists, All Other	828	1.2%
Market Research Analysts & Marketing Specialists	781	1.1%

TOP HARD SKILLS IN ONLINE PROFILES

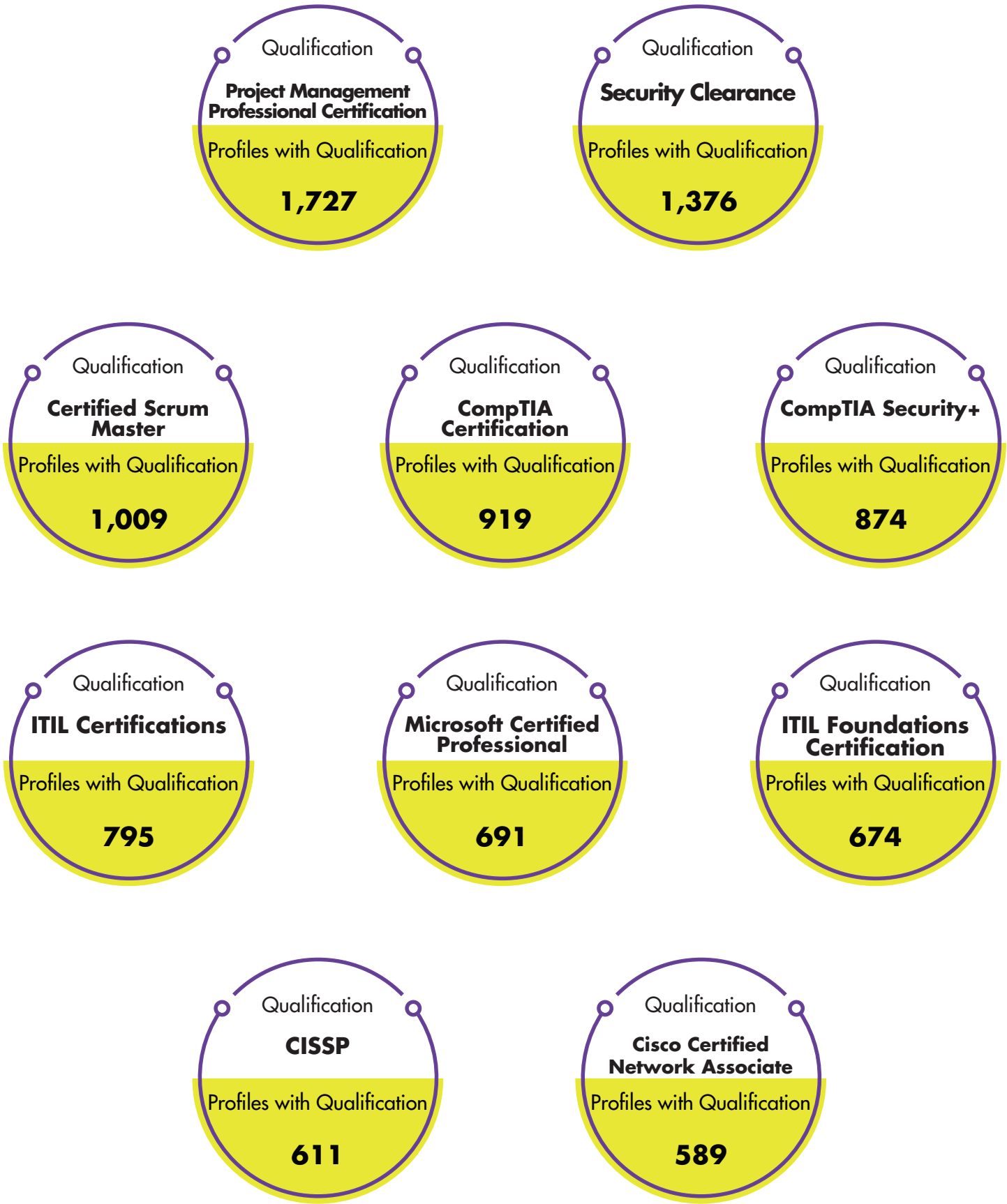
The figures on this page show the top hard skills listed in online profiles of people working in the Sector that have been updated at some time in calendar 2021.

Source: EMSI Burning Glass



TOP QUALIFICATIONS IN ONLINE PROFILES

The figures on this page show the top qualifications listed in online profiles of people working in the Sector that have been updated at some time in calendar 2021.



Source: EMSI Burning Glass

STRATEGIES FOR MAINTAINING PRODUCTIVITY & OUTPUT

This section explores various options and resources that can be used to leverage scarce labor. The table immediately below shows hires, separations and turnover rate for the top 20 occupations in the sector (2020).

- There are generally five strategies an employer can use to attract workers:
1. Offer more money and/or signing bonus (this gets new hires in, but does not necessarily keep them there),
 2. Hire remote workers for those functions that can be filled using virtual technology.
 3. Invest capital in automation to leverage current labor productivity.
 4. Work with local K-12 and postsecondary educators to expose students to career pathways in the sector.
 5. Work with the local workforce system and its partners to seek out and train hidden talent through internships and apprenticeships.

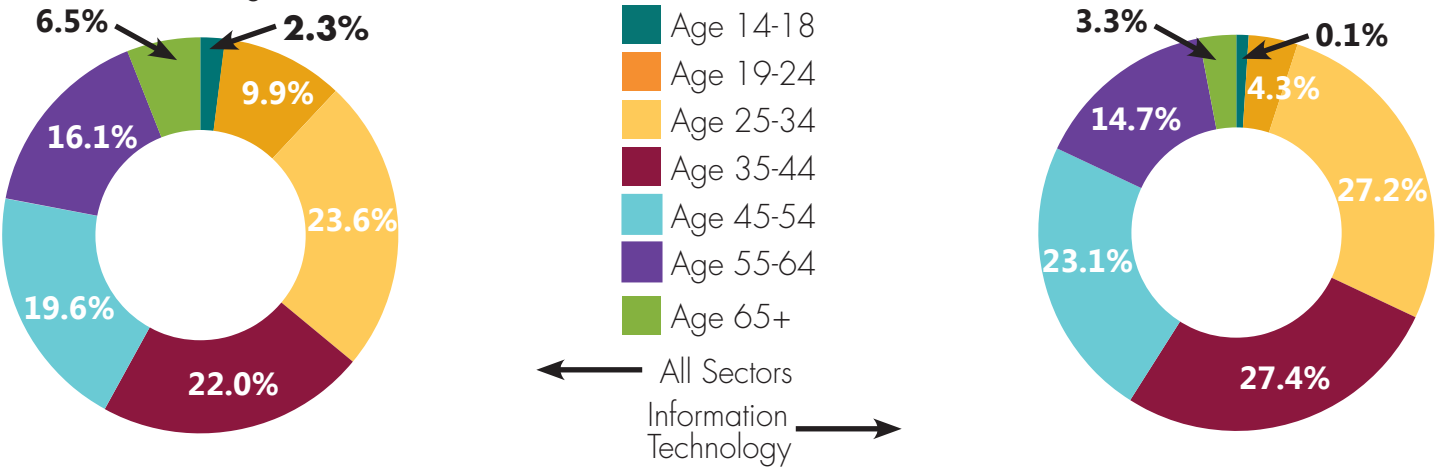
Source: EMSI Burning Glass

SOC Code	Description	Hires	Separations	Turnover Rate
43-4051	Customer Service Representatives	36,067	37,253	83.5%
41-3091	Sales Representatives of Services, Except Advertising, Insurance, Financial Services, & Travel	21,712	21,700	77.5%
13-2011	Accountants & Auditors	18,909	19,505	54.4%
13-1161	Market Research Analysts & Marketing Specialists	12,387	11,297	54.0%
11-1021	General & Operations Managers	18,471	17,435	53.3%
13-1198	Project Management Specialists & Business Operations Specialists, All Other	21,235	22,836	44.0%
41-4011	Sales Representatives, Wholesale & Manufacturing, Technical & Scientific Products	2,904	2,741	43.7%
15-1232	Computer User Support Specialists	6,378	6,271	40.7%
15-1299	Computer Occupations, All Other	4,667	4,841	40.4%
15-1244	Network & Computer Systems Administrators	4,009	4,375	38.0%
15-1212	Information Security Analysts	2,158	1,627	37.3%
13-1111	Management Analysts	6,658	6,017	36.1%
17-2061	Computer Hardware Engineers	1,316	1,545	35.9%
11-3021	Computer & Information Systems Managers	3,354	2,972	35.7%
15-1241	Computer Network Architects	2,008	2,185	35.3%
15-1231	Computer Network Support Specialists	1,506	1,433	35.1%
15-1211	Computer Systems Analysts	4,310	4,079	35.1%
15-1256	Software Developers & Software Quality Assurance Analysts & Testers	1,836	17,224	34.4%
15-1257	Web Developers & Digital Interface Designers	1,836	1,792	34.3%
15-1251	Computer Programmers	779	732	30.2%

DEMOGRAPHICS

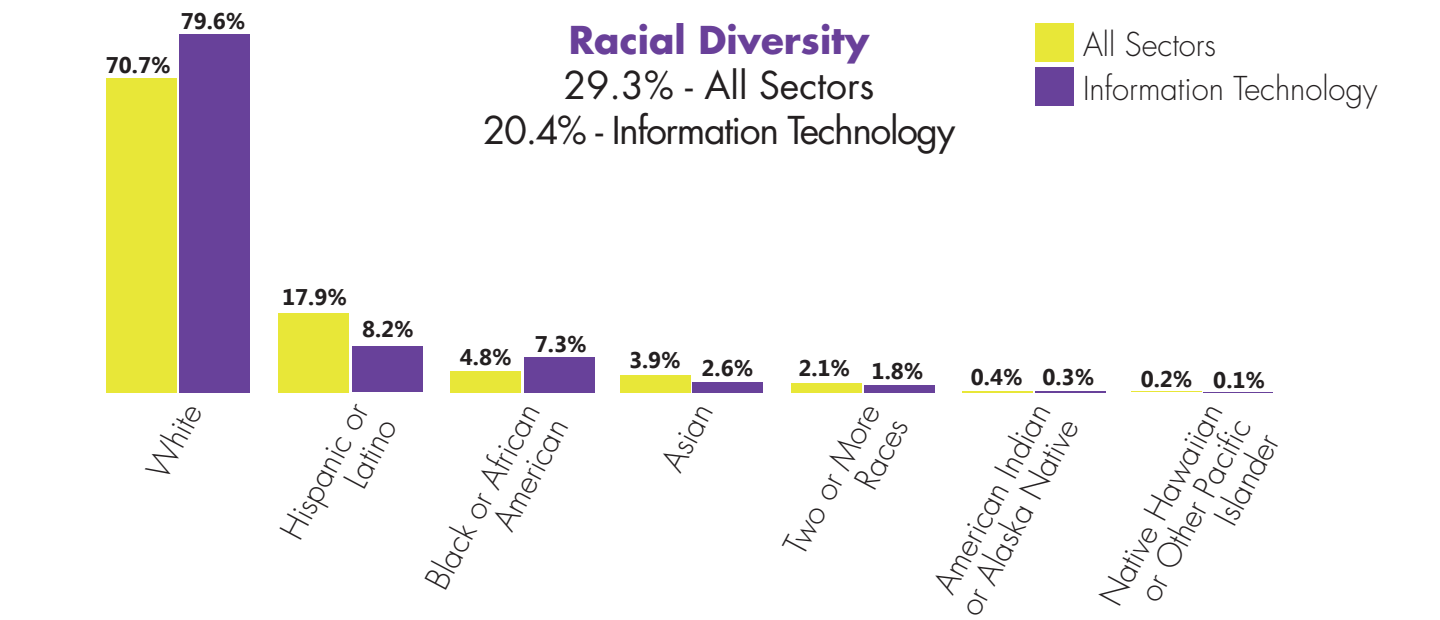
Comparative Retirement Risk

The Sector has lower retirement risk, with 3.3% of its labor force aged 65 or older, compared with 6.5% for all sectors in the region.



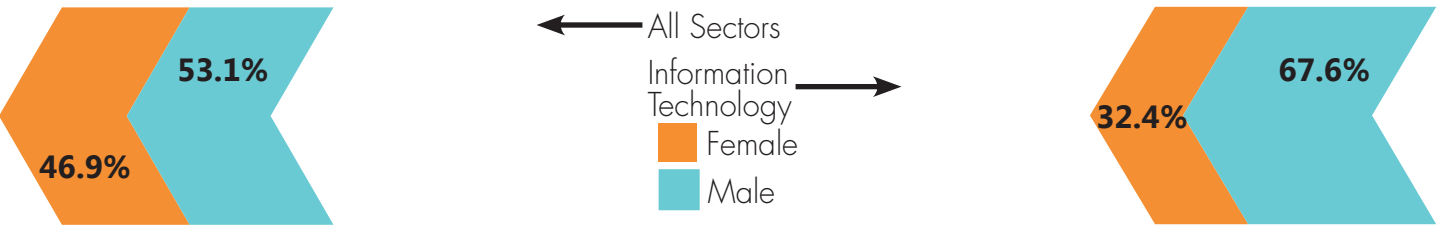
Comparative Racial & Ethnic Diversity

The bar graph below shows the racial and ethnic diversity in the Sector compared to all sectors in the region.



Comparative Gender

The figures below show the gender diversity in the Sector compared to all sectors in the region.



INFORMATION TECHNOLOGY

REMOTE WORK POTENTIAL

This table is customized to the sector using its entire staffing pattern along Colorado’s Urban Front Range. It uses data from EMSI Burning Glass to determine the percent of unique job postings during 2021 that specified the new hire could work remotely, at least part of the time.

Data on remote working capabilities can be combined with capital investment in virtual technologies to create hybrid work models that can leverage scarce local labor while at the same time ensuring sector demand can be met. Hybrid models are generally popular with job seekers, and have the virtue of allowing employers to recruit further afield, and even internationally for selected business functions.

SOC Code	Description	Employed in Industry	Estimated Remote Capability	Percent of Occupation Family Posted Remotely
11	Management	8,937	1,012	11.3%
13	Business and Financial Operations	14,820	2,776	18.7%
15	Computer & Mathematical	59,020	12,667	21.5%
17	Architecture & Engineering	3,256	297	9.1%
19	Life, Physical, and Social Science	204	23	11.5%
21	Community and Social Service	17	2	11.4%
23	Legal	446	73	16.4%
25	Educational Instruction and Library	352	25	7.2%
27	Arts, Design, Entertainment, Sports, & Media	2,200	273	12.4%
29	Healthcare Practitioners and Technical	150	5	3.5%
31	Healthcare Support	30	1	3.9%
33	Protective Service	65	2	3.6%
37	Building & Grounds Cleaning & Maintenance	54	2	2.9%
39	Personal Care and Service	18	1	2.8%
41	Sales and Related	8,238	913	11.1%
43	Office and Administrative Support	7,513	804	10.7%
47	Construction and Extraction	27	1	3.8%
49	Installation, Maintenance, and Repair	653	26	4.0%
51	Production	257	8	3.3%
53	Transportation and Material Moving	164	3	1.9%

Remote Work Capability for Sector
Employed in Industry - 106,422
Estimated Remote Capability - 18,915
Percent of Occupation Family Posted Remote - 17.8%

INFORMATION TECHNOLOGY

Automation Index

The automation index measures the potential to automate in order to leverage the productivity of scarce labor. It is presented on an index with a base of 100 – occupations with a score above 100 have a greater-than-average potential for automation, and occupations with a score below 100 have a lower-than-average potential to automate. Occupations where the automation index number is above 100 may present opportunity to think about capital investments that can partly solve labor shortage problems.

Automation seldom replaces workers 1:1. Generally, automation has the potential to leverage productivity, allowing a business to produce the same or more output with fewer people.

SOC	Description	Employed in Sector	Automation Index
35	Food Preparation & Serving Related	<10	125.9
47	Construction & Extraction	27	123.1
37	Building & Grounds Cleaning & Maintenance	54	122.5
51	Production	257	113.8
53	Transportation & Material Moving	164	110.9
45	Farming, Fishing, & Forestry	<10	110.0
49	Installation, Maintenance, & Repair	653	108.9
33	Protective Service	65	98.7
43	Office & Administrative Support	7,513	98.1
39	Personal Care & Services	18	96.1
41	Sales & Related	8,238	95.0
31	Healthcare Support	30	95.0
27	Arts, Design, Entertainment, Sports, & Media	2,200	89.7
13	Business & Financial Operations	14,820	89.5
29	Healthcare Practitioners & Technical	150	88.3
17	Architecture & Engineering	3,256	87.0
25	Educational Instruction and Library	352	85.9
11	Management	8,937	85.1
19	Life, Physical, & Social Science	204	84.5
15	Computer & Mathematical	59,020	83.4

Apprenticeable Occupations

Many occupations are apprenticeable, and businesses can work with the local workforce centers to create apprenticeship pathways that help to ensure a steady supply of workers with the skills the industry actually needs.

An apprenticeship is an industry-driven, high-quality career pathway where employers can develop and prepare their future workforce, and individuals can obtain paid work experience, classroom instruction, and a portable, nationally-recognized credential. Find information and resources on the [A/D Works! website](#).

SOC Code	Description	Employed in Industry	Percent of Total Jobs in Sector	Median Hourly Earnings	Currently Apprenticeable*
11-1021	General & Operations Managers	1,768	1.7%	\$60.37	Yes
11-3021	Computer & Information Systems Managers	3,350	3.1%	\$78.20	Yes
13-1111	Management Analysts	1,467	1.4%	\$45.46	Yes
13-1161	Market Research Analysts & Marketing Specialists	2,924	2.7%	\$34.11	Yes
13-1198	Project Management Specialists & Business Operations Specialists, All Other	5,092	4.8%	\$40.16	No
13-2011	Accountants & Auditors	1,627	1.5%	\$37.08	Yes
15-1211	Computer Systems Analysts	4,880	4.6%	\$48.99	Yes
15-1212	Information Security Analysts	1,630	1.5%	\$50.72	Yes
15-1231	Computer Network Support Specialists	1,377	1.3%	\$34.23	Yes
15-1232	Computer User Support Specialists	6,680	6.3%	\$27.76	Yes
15-1241	Computer Network Architects	2,488	2.3%	\$59.13	Yes
15-1244	Network & Computer Systems Administrators	3,627	3.4%	\$42.81	Yes
15-1251	Computer Programmers	1,537	1.4%	\$40.13	Yes
15-1256	Software Developers & Software Quality Assurance Analysts & Testers	27,756	26.1%	\$53.14	Yes
15-1257	Web Developers & Digital Interface Designers	2,736	2.6%	\$33.28	Yes
15-1299	Computer Occupations, All Other	4,365	4.1%	\$50.03	Yes
17-2061	Computer Hardware Engineers	1,732	1.6%	\$55.62	No
41-3091	Sales Representatives of Services, Except Advertising, Insurance, Financial Services, & Travel	4,725	4.4%	\$31.12	No
41-4011	Sales Representatives, Wholesale & Manufacturing, Technical & Scientific Products	1,430	1.3%	\$45.55	Yes
43-4051	Customer Service Representatives	2,559	2.4%	\$17.56	Yes

Source: EMSI Burning Glass

TRAINING PIPELINE

A good way to assess the ongoing strength of the training pipeline in the region is to compare number of people who completed a training program in the occupation (regional completions) with the average number of annual openings in that occupation.

TRAINING PIPELINE

If there are more openings than there are completions, then there is a shortfall. Employers may wish to work with regional workforce development centers such as Arapahoe/Douglas Works! and area educators to address shortfalls in critical occupations using a variety of strategies.

SOC Code	Description	2021 Jobs	Average Annual Openings		Regional Completions	Surplus/ (Shortfall)	Typical On-the-Job Training	Typical Entry Level Education
41-3091	Sales Representatives of Services, Except Advertising, Insurance, Financial Services, and Travel	27,983	3,643		156	(3,487)	None	HS Diploma or Equivalent
15-1256	Software Developers and Software Quality Assurance Analysts and Testers	50,056	5,808		3,626	(2,182)	None	Bachelor's Degree
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	6,274	741		34	(707)	None	Bachelor's Degree
17-2061	Computer Hardware Engineers	4,306	317		1,593	1,276	None	Bachelor's Degree
15-1257	Web Developers and Digital Interface Designers	5,225	528		2,220	1,692	None	Associate's Degree
15-1211	Computer Systems Analysts	11,633	1,177		4,243	3,066	None	Bachelor's Degree
15-1244	Network and Computer Systems Administrators	11,514	949		4,132	3,183	None	Bachelor's Degree
15-1231	Computer Network Support Specialists	4,079	405		3,828	3,423	None	Associate's Degree
15-1251	Computer Programmers	2,420	229		3,850	3,621	None	Bachelor's Degree
15-1241	Computer Network Architects	6,194	468		4,120	3,652	5 years or more	Bachelor's Degree
15-1212	Information Security Analysts	4,362	516		5,157	4,641	Less than 5 years	Bachelor's Degree
15-1299	Computer Occupations, All Other	11,969	1,162		8,236	7,074	None	Bachelor's Degree
13-2011	Accountants and Auditors	35,865	3,885		12,063	8,178	None	Bachelor's Degree
43-4051	Customer Service Representatives	44,606	6,184		15,221	9,037	None	HS Diploma or Equivalent
13-1161	Market Research Analysts and Marketing Specialists	20,905	2,766		12,746	9,980	None	Bachelor's Degree
13-1111	Management Analysts	16,673	2,110		12,217	10,107	Less than 5 years	Bachelor's Degree
11-3021	Computer and Information Systems Managers	8,337	914		14,810	13,896	5 years or more	Bachelor's Degree
11-1021	General and Operations Managers	32,731	3,590		18,053	14,463	5 years or more	Bachelor's Degree
13-1198	Project Management Specialists and Business Operations Specialists, All Other	51,871	4,714		19,354	14,640	None	Bachelor's Degree
15-1232	Computer User Support Specialists	15,409	1,555		18,412	16,857	None	Some College, no Degree

Source: EMSI Burning Glass

TOP JOBS

Top 10 Occupations Currently Listed in the Colorado Central Planning Region

Click on the icon to learn more about the occupation

Total Job Postings (Jan 2021-Dec 2021)

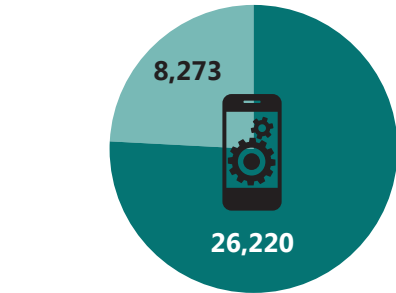


Darker Color

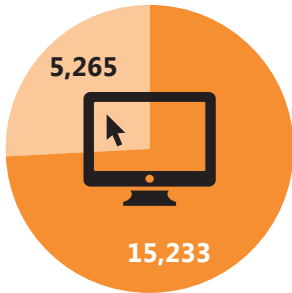
Unique Job Postings (Jan 2021-Dec 2021)



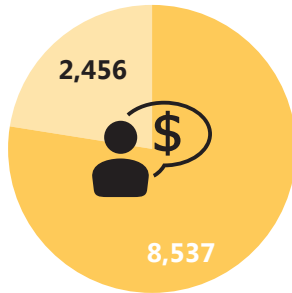
Lighter Color



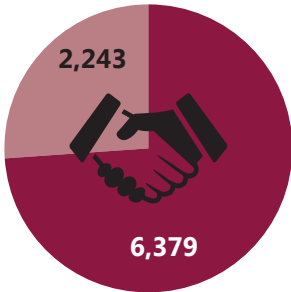
Software Developers
& Software Quality
Assurance Analyst



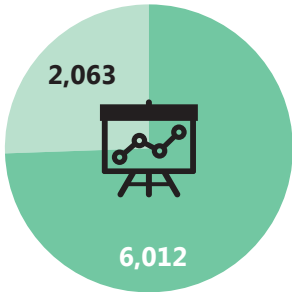
Computer
Occupations, All
Other



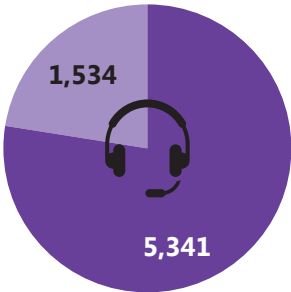
Sales Representatives,
Wholesale &
Manufacturing, Except
Technical & Scientific
Products



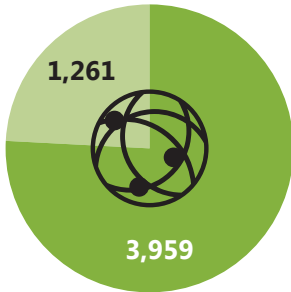
Personal Service
Managers, All Other;
Entertainment &
Recreation Managers,
Except Gambling; &
Managers, All Other



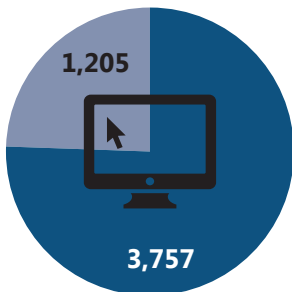
Marketing Managers



Computer User
Support Specialists



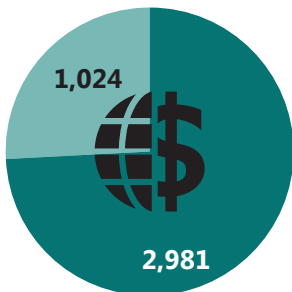
Web Developers
& Digital Interface
Designers



Computer Systems
Analysts



Management
Analysts



Sales Managers

Source: EMSI Burning Glass

JOB POSTING ANALYTICS

The top companies and certifications required by employers in this Sector are shown below. The job listings section shows the top websites where businesses in this sector list their open jobs. Job Families are groups of occupations based upon work performed, skills, education, training, and credentials. The top 5 job families, measured by percent of total employment in the Sector are shown at the bottom right.

Click on the company to go to their career page and see what openings they currently have.

Click on the certification name to learn more about it.

Companies

- 1 Jobot
- 2 Cynet Systems
- 3 Trimble
- 4 Splunk
- 5 Nelnet

Click on the job listing to go to the job search website and see what openings they currently have.

JOB LISTINGS

- 1 Dejobs.org
- 2 Recruiternetworks.com
- 3 Indeed.com
- 4 Simplyhired.com
- 5 Dice.com

Source: EMSI Burning Glass

Certifications

- 1 Top Secret-Sensitive Compartmented Information (TS/SCI Clearance)
- 2 Security Clearance
- 3 Secret Clearance
- 4 Master of Business Administration (MBA)
- 5 CompTIA Security+

Click on the job family to see the groups of occupations and learn more about those occupations using O*Net OnLine.

JOB FAMILY

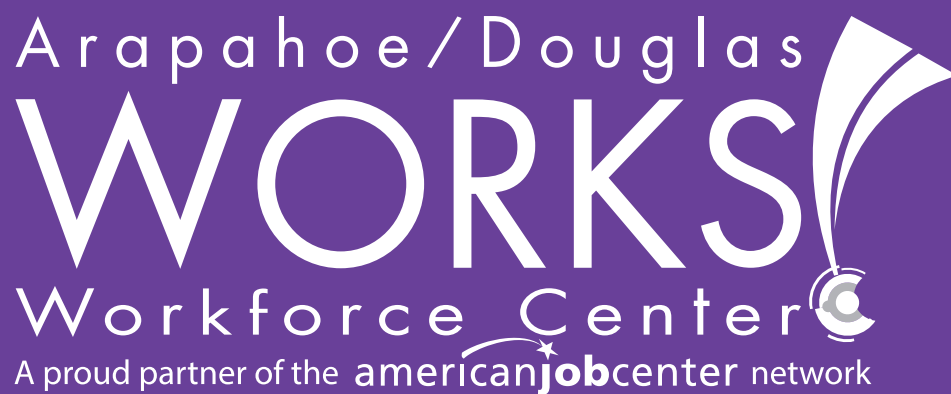
- 1 Computer and Mathematical
- 2 Business and Financial Operations
- 3 Management
- 4 Sales and Related
- 5 Office & Administrative Support

TOP HARD SKILLS IN SECTOR

The table below lists the top 20 hard skills from EMSI Burning Glass demanded by employers in the Sector during the last calendar year. This is matched against the number of online profiles that have been updated sometime in the last year that also list those hard skills. This can give employers and job seekers thinking of entering the sector an idea of where the greatest opportunities exist in upskilling, next skilling and reskilling.

	Skills	Postings	% of Total Postings	Online Profiles	% of Total Online Postings
1	Agile Methodology	8,102	15.4%	8,728	12.2%
2	Automation	6,030	11.5%	4,221	5.9%
3	Amazon Web Services	5,667	10.8%	2,474	3.5%
4	Python (Programming Language)	5,639	10.7%	4,306	6.0%
5	Software Engineering	5,139	9.8%	7,772	10.9%
6	Software as a Service (SaaS)	5,062	9.6%	8,266	11.6%
7	SQL (Programming Language)	4,949	9.4%	8,678	12.1%
8	Software Development	4,940	9.4%	9,603	13.4%
9	Java (Programming Language)	4,834	9.2%	6,287	8.8%
10	Computer Science	4,550	8.7%	510	0.7%
11	Application Programming Interface (API)	4,513	8.6%	2,547	3.6%
12	Salesforce	4,285	8.2%	7,497	10.5%
13	JavaScript (Programming Language)	4,268	8.1%	5,764	8.1%
14	Linux	4,067	7.7%	6,061	8.5%
15	Auditing	3,740	7.1%	3,397	4.8%
16	Product Management	3,720	7.1%	6,310	8.8%
17	Accounting	3,690	7.0%	3,725	5.2%
18	Finance	3,604	6.9%	4,016	5.6%
19	Computer Science	3,453	6.7%	1,559	2.2%
20	Forecasting	3,453	6.6%	1,575	2.2%





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