2022

Broadband
INDUSTRY PROFILE

for Arapahoe & Douglas Counties
Colorado WIOA Central Planning Region

Colorado Central Planning Region

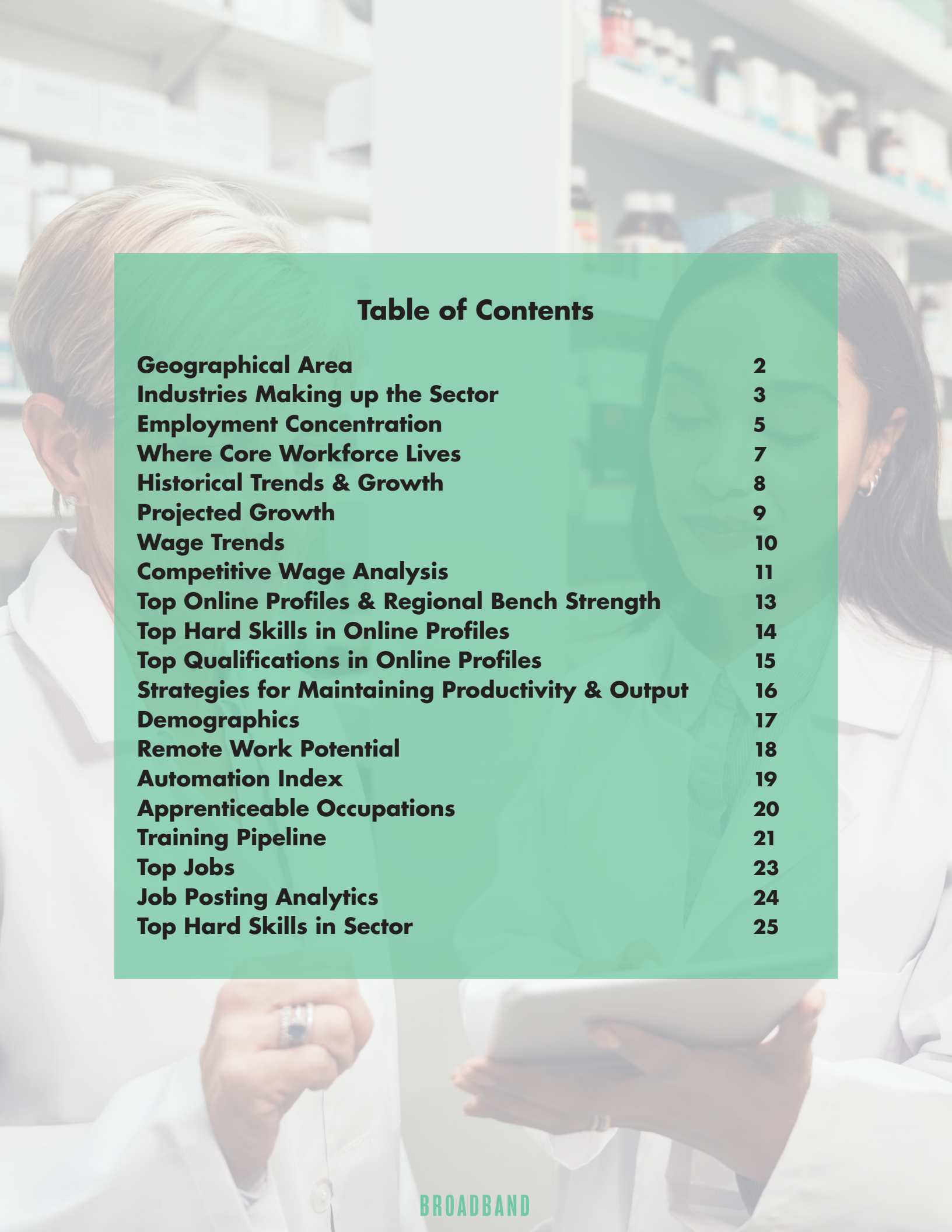Arapahoe/Douglas
WORKFORCE BOARD
COLORADO

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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.
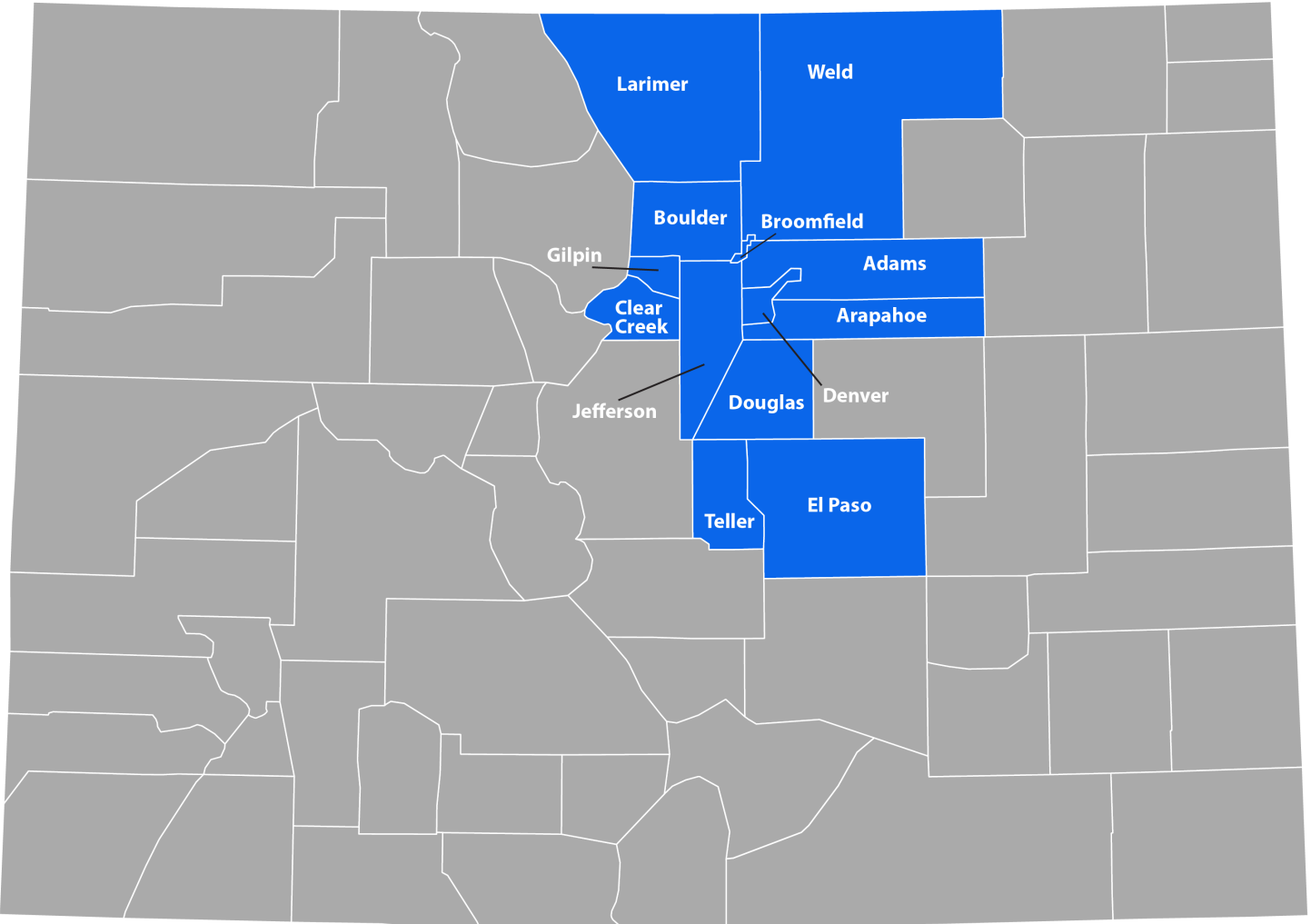
The Broadband Sector employs 26,297 people in 527 payrolled business locations along Colorado's Urban Front Range. In 2021, the sector had $25.3 bilion in sales, and contribut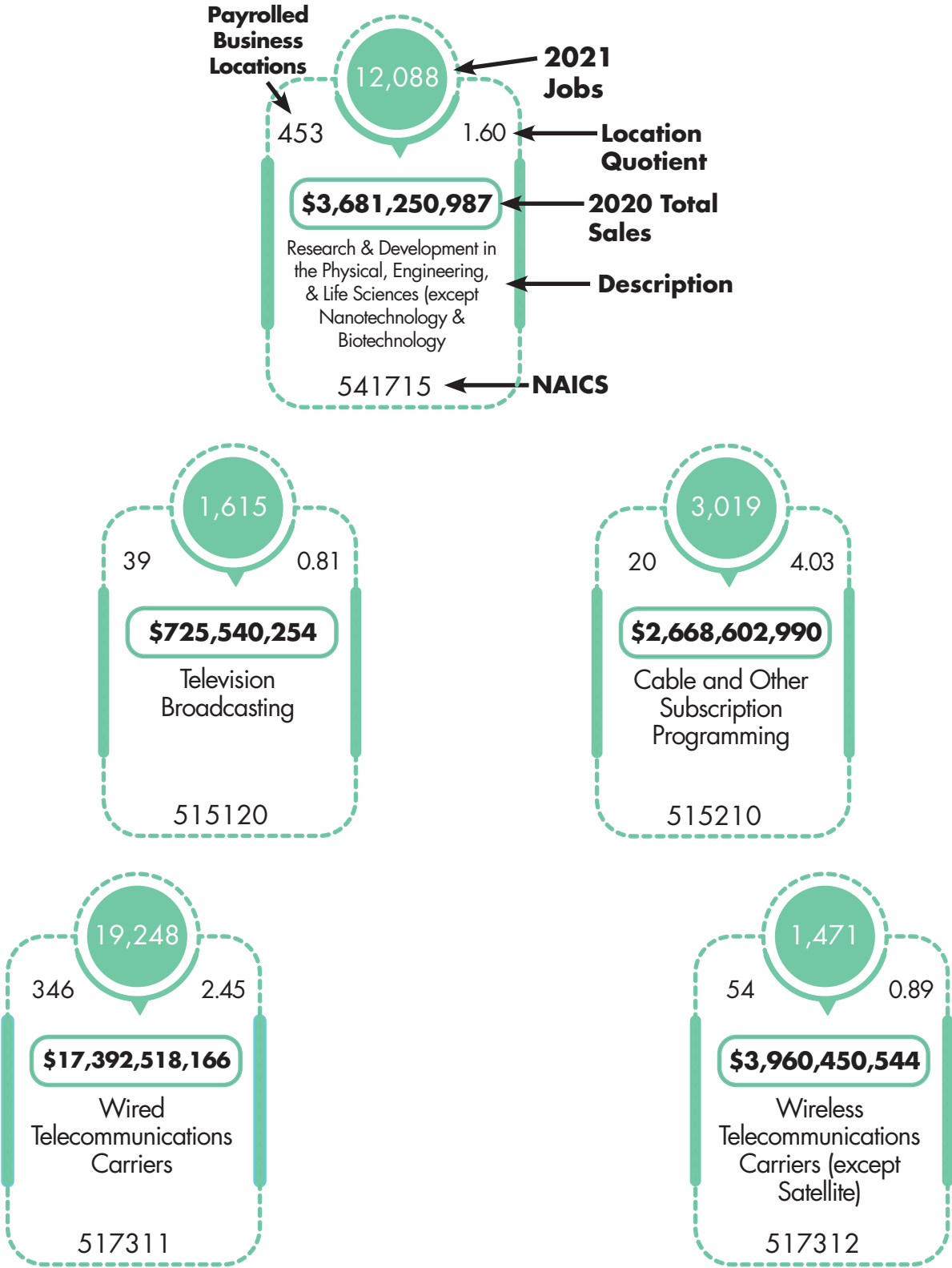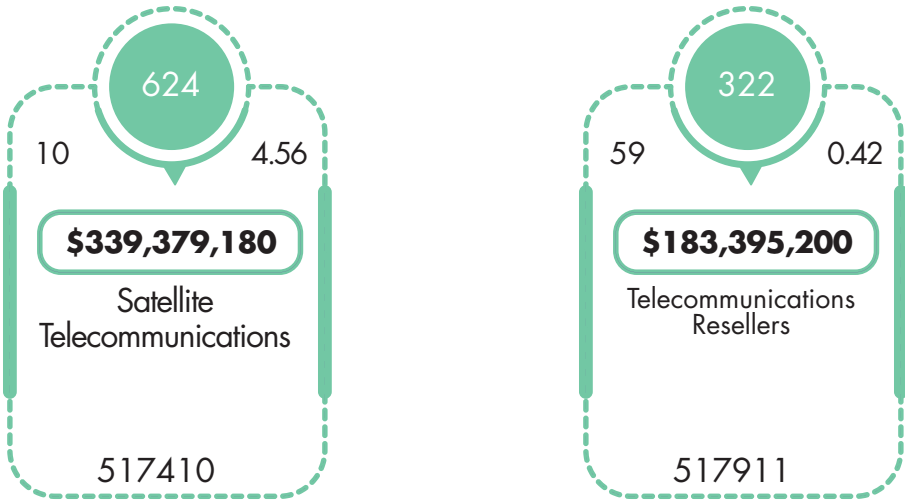ed $14.3 billion to the region's Gross Regional Product. The region's geographic location and extensive infrastructure ensures a strong global supply chain, and a diversified business climate. In addition, ready access to highly skilled workers and world-class research institutions offers employers in 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.

Payrolled Business Locations → 12,088 ← **2021 Jobs**

453   1.60 ← **Location Quotient**

$3,681,250,987 ← **2020 Total Sales**

Research & Development in the Physical, Engineering, & Life Sciences (except Nanotechnology & Biotechnology) ← **Description**

541715 ← **NAICS**

1,615

39   0.81

$725,540,254

Television Broadcasting

515120

3,019

20   4.03

$2,668,602,990

Cable and Other Subscription Programming

515210

19,248

346   2.45

$17,392,518,166

Wired Telecommunications Carriers

517311

1,471

54   0.89

$3,960,450,544

Wireless Telecommunications Carriers (except Satellite)

517312

624

10   4.56

$339,379,180

Satellite Telecommunications

517410

322

59   0.42

$183,395,200

Telecommunications Resellers

517911

Source: EMSI Burning Glass

TOTALS
2021 Jobs - 26,297
Payrolled Business Locations - 527
Location Quotient - 2.47
Total Sales - $25,269,886,334

EMPLOYMENT CONCENTRATION MAP

2021 Jobs
- 8,996
- 2,596 to 8,995
- 1,640 to 2,595
- 612 to 1,639
- 189 to 611
- 0 to 188

Source: EMSI Burning Glass

EMPLOYMENT CONCENTRATION

The Front Range region is a national hub for broadband, with employment in the sector 2.47 times more concentrated than the national average. The highest concentrations are in cable and other subscription programming (4.03 times the national average, and wired telecommunications carriers (2.45 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
Arapahoe	10,689	$132,184	$24,409
Denver	3,994	$118,898	$21,841
Douglas	3,130	$119,408	$21,789
Broomfield	2,596	$146,203	$26,998
El Paso	1,496	$74,971	$13,404
Adams	1,375	$113,200	$20,456
Boulder	1,147	$111,042	$20,028
Jefferson	810	$85,227	$14,649
Larimer	810	$59,036	$10,483
Weld	211	$71,544	$11,640
Teller	36	$54,867	$8,815
Clear Creek	<10	Insf. Data	Insf. Data
Gilpin	0	0	0
TOTALS	**26,292**	**$90,548**	**$16,209**

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
- Installation, Maintenance, & Repair
- Sales & Related
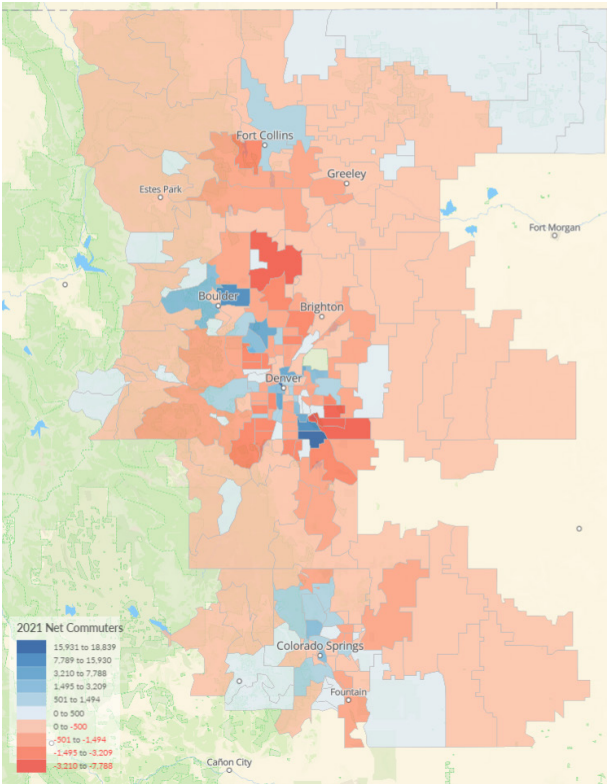
County	Net Commuters	Resident Workers	Jobs
Denver	32,812	54,192	87,004
Arapahoe	8,918	50,582	59,500
Boulder	8,507	26,743	35,250
Broomfield	2,324	7,689	10,012
Gilpin	(78)	254	176
Clear Creek	(104)	321	216
El Paso	(319)	45,523	45,204
Teller	(786)	1,458	672
Larimer	(1,118)	18,821	17,704
Adams	(8,512)	30,241	21,729
Weld	(9,970)	18,049	8,079
Douglas	(11,650)	35,074	23,423
Jefferson	(13,763)	48,899	35,136

Source: EMSI Burning Glass

HISTORICAL TRENDS & GROWTH

- Over the last decade, employment in the Broadband Sector decreased by 2,138 jobs, an annual growth rate of –0.86%.
- The number of establishments decreased annually by –1.0% over the same time period, moving from 558 in 2011 to 509 in 2020.
- Average worker earnings in the sector, which includes wages, salaries, and compensation, grew from $111,312 in 2011 to $141,459 in 2020, an annual growth rate of 2.7%.

Historical Trends

Broadband, Historical Growth, Jobs and Establishments, Colorado Urban Front Range
Source: EMSI Burning Glass
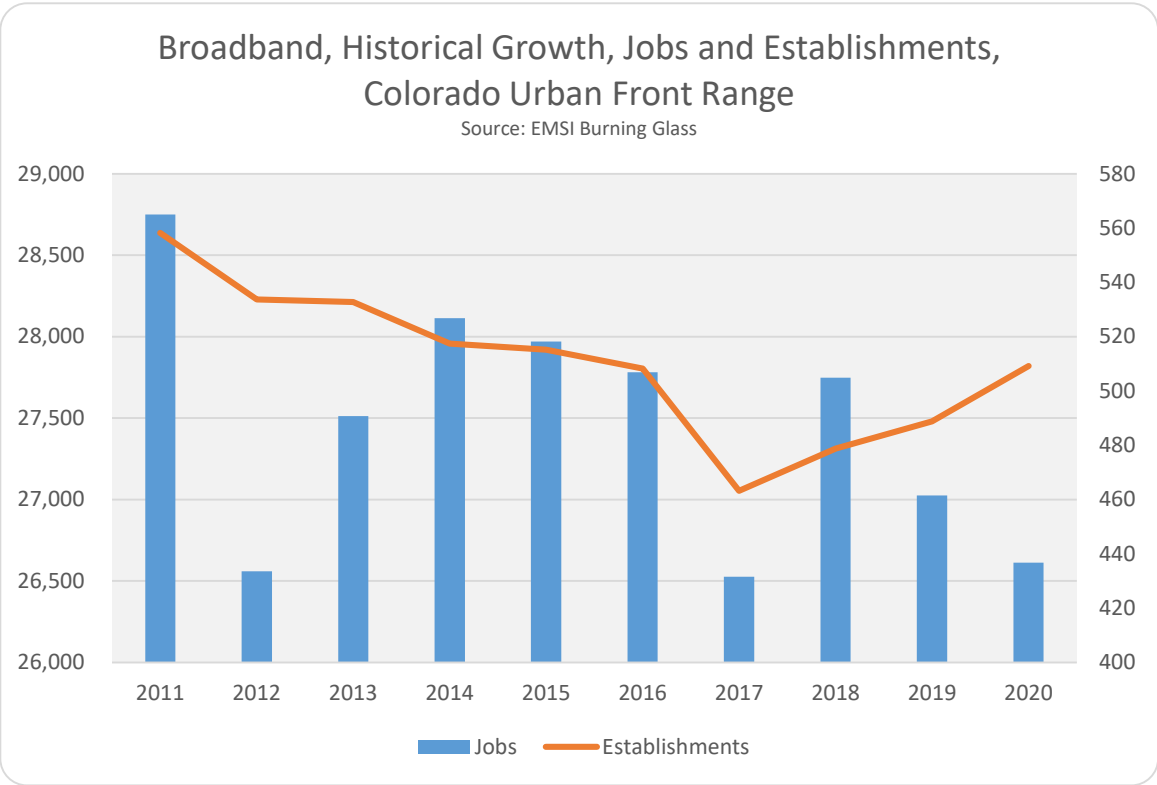
Historical Growth

Broadband, Historical Growth
Earnings per Worker, Colorado Urban Front Range
Source: EMSI Burning Glass
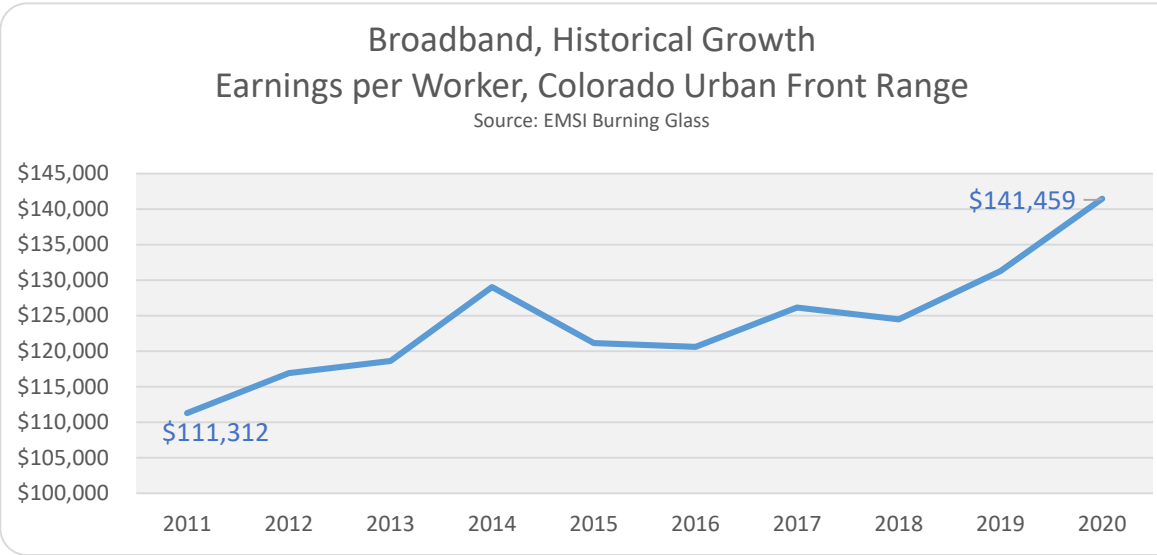
PROJECTED GROWTH

The Broadband Sector is expected to decline at an annual rate of 0.4%, with the number of jobs decreasing to 25,919 by 2025. The Urban Front Range continues to be a national hub in several sector industries with overall employment concentration in the sector as a whole at 2.47 times the national average.

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
515120	Television Broadcasting	1,615	1,671	57	0.81	39
515210	Cable & Other Subscription Programming	3,019	3,165	147	4.03	20
517311	Wired Telecommunications Carriers	19,248	18,781	(467)	2.45	346
517312	Wireless Telecommunications Carriers (except Satellite)	1,471	1,306	(164)	0.89	54
517410	Satellite Telecommunications	624	750	126	4.56	10
517911	Telecommunications Resellers	322	245	(77)	0.42	59
	TOTALS	**254,855**	**281,165**	**26,310**	**1.13**	**12,127**

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 $77,696. The line graph below shows the median wage from job postings by month over a three-year period.

Salary Range of Unique Job Postings

Salary Range	Percentage
$20,000 - $69,999	41.4%
$70,000 - $119,999	37.0%
$120,000 - $169,999	18.9%
$170,000 - $219,999	2.3%
$220,000 - $269,999	0.5%
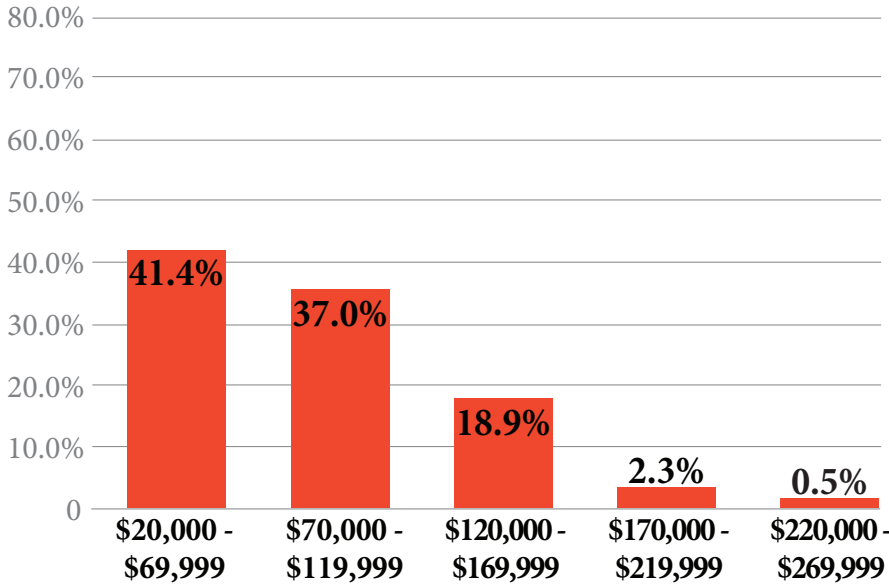
Advertised Wage Trends

$47,488 (Jan-20) ... $82,304 (Dec-21)
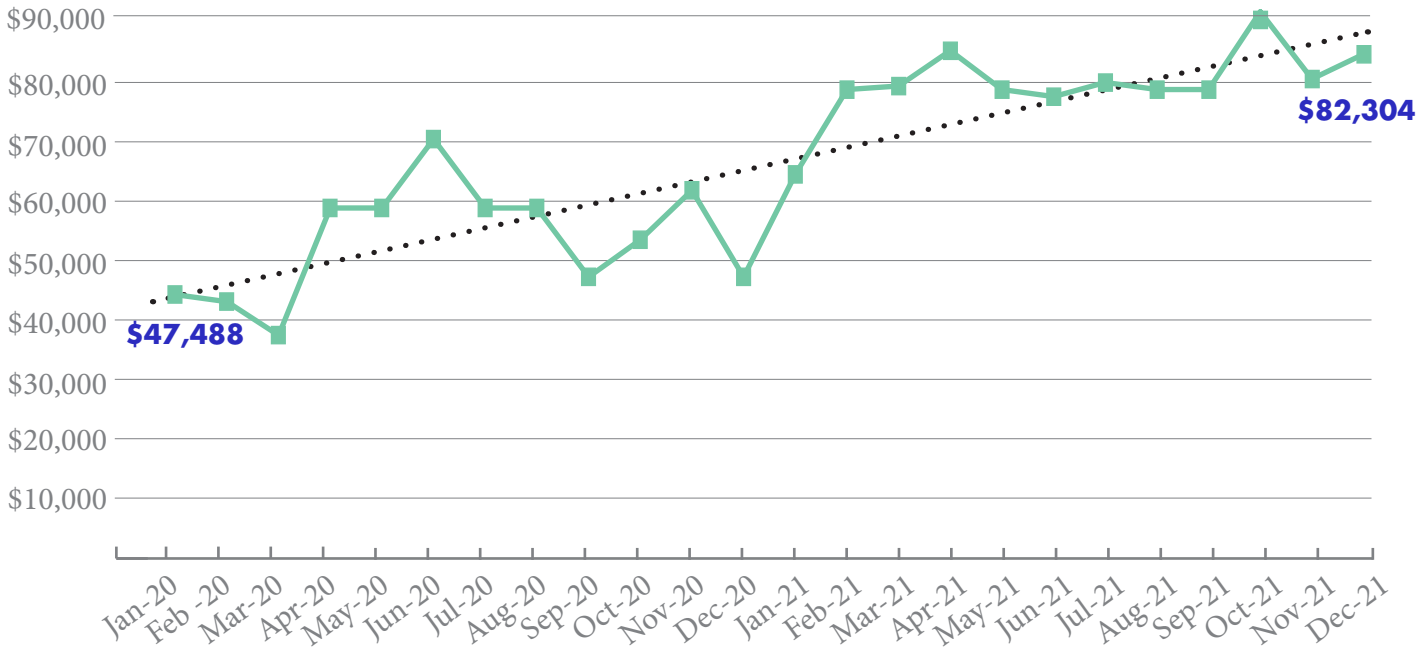
COMPETITIVE WAGE ANALYSIS

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.

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.

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	293	1.1%	32,731	3,590	$71.32	$26.57	$39.11	$60.37	$93.63	$132.71
13-1161	Market Research Analysts & Marketing Specialists	595	2.3%	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	1,436	5.5%	51,871	4,714	$43.94	$22.65	$29.41	$40.16	$54.02	$69.13
13-2011	Accountants & Auditors	326	1.2%	35,865	3,885	$41.50	$22.67	$28.06	$37.08	$50.48	$65.31
15-1231	Computer Network Support Specialists	723	2.8%	4,079	405	$36.94	$21.04	$25.82	$34.23	$45.04	$57.98
15-1232	Computer User Support Specialists	467	1.8%	15,409	1,555	$30.02	$18.36	$21.96	$27.76	$35.74	$45.39
15-1241	Computer Network Architects	895	3.4%	6,194	468	$60.30	$37.46	$46.52	$59.13	$72.92	$85.89
15-1244	Network & Computer Systems Administrators	751	2.9%	11,514	949	$44.45	$27.51	$33.74	$42.81	$53.84	$64.81
15-1256	Software Developers & Software Quality Assurance Analysts & Testers	1,292	4.9%	50,056	5,808	$54.39	$32.71	$40.77	$53.14	$66.32	$79.67
15-1299	Computer Occupations, All Other	292	1.1%	11,969	1,162	$52.88	$28.48	$37.71	$50.03	$64.88	$80.54
17-2072	Electronics Engineers, Except Computer	1,806	6.9%	6,213	485	$57.16	$35.41	$43.32	$55.43	$70.31	$82.60
27-2012	Producers & Directors	448	1.7%	1,879	209	$39.63	$15.37	$21.33	$30.30	$45.66	$76.85
27-4012	Broadcast Technicians	344	1.3%	699	79	$29.89	$14.27	$20.90	$27.23	$35.22	$46.67
41-1012	First-Line Supervisors of Non-Retail Sales Workers	411	1.6%	6,841	670	$48.40	$19.34	$28.14	$41.35	$62.45	$85.42
41-3091	Sales Representatives of Services, Except Advertising, Insurance, Financial Services, & Travel	2,819	10.7%	27,983	3,643	$39.57	$14.30	$20.33	$31.12	$49.08	$77.86
43-1011	First-Line Supervisors of Office & Administrative Support Workers	275	1.0%	20,206	2,293	$31.51	$18.12	$22.77	$29.42	$37.73	$47.57
43-4051	Customer Service Representatives	1,863	7.1%	44,606	6,184	$19.07	$12.44	$14.14	$17.56	$22.30	$27.88
49-1011	First-Line Supervisors of Mechanics, Installers, & Repairers	423	1.6%	8,673	935	$37.09	$23.26	$28.15	$36.07	$44.90	$52.86
49-2022	Telecommunications Equipment Installers & Repairers, Except Line Installers	2,450	9.3%	3,407	434	$30.96	$19.47	$23.59	$30.79	$37.49	$44.22
49-9052	Telecommunications Line Installers & Repairers	1,078	4.1%	1,608	211	$26.20	$17.17	$20.03	$24.64	$30.64	$36.90

Source: EMSI Burning Glass

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	2,781	8.4%
Network & Computer Systems Administrators	1,754	5.3%
Personal Service Managers, All Other; Entertainment & Recreation Managers, Except Gambling; & Managers, All Other	1,598	4.8%
Computer Occupations, All Other	1,402	4.2%
Computer User Support Specialists	1,395	4.2%
Marketing Managers	1,394	4.2%
Customer Service Representatives	1,384	4.2%
Sales Managers	1,083	3.3%
General & Operations Managers	1,058	3.2%
First-Line Supervisors of Office & Administrative Support Workers	889	2.7%
Computer & Information Systems Managers	886	2.7%
Architectural & Engineering Managers	744	2.2%
Management Analysts	715	2.1%
Sales Representatives of Services, Except Advertising, Insurance, Financial Services, & Travel	712	2.1%
Computer Systems Analysts	672	2.0%
Engineers, All Other	506	1.5%
Financial Managers	501	1.5%
Industrial Engineers	488	1.5%
Retail Salespersons	444	1.3%
Project Management Specialists & Business Operations Specialists, All Other	439	1.3%

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

Skill	Frequency in Profiles	Profiles with Skill
Telecommunications	23.9%	7,954
Project Management	11.1%	3,694
Vendor Management	10.0%	3,327
Process Improvement	9.8%	3,274
Strategic Planning	8.3%	2,749
Customer Satisfaction	8.1%	2,701
SQL (Programming Language)	7.4%	2,473
Account Management	7.3%	2,439
Cross-Functional Team Leadership	7.2%	2,397
Agile Methodology	7.1%	2,376
Software Development	6.8%	2,273
Customer Experience	6.8%	2,252
Technical Support	6.6%	2,198
Product Management	6.5%	2,167
Voice Over IP	6.3%	2,084

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.

Qualification
Project Management Professional
Profiles with Qualification
619

Qualification
Cisco Certified Network Associate
Profiles with Qualification
530

Qualification
Security Clearance
Profiles with Qualification
288

Qualification
Certified Plant Engineer
Profiles with Qualification
261

Qualification
Certified Scrum Master
Profiles with Qualification
255

Qualification
CompTIA Certification
Profiles with Qualification
223

Qualification
ITIL Certifications
Profiles with Qualification
200

Qualification
Cisco Certified Network Professional
Profiles with Qualification
168

Qualification
ITIL Foundation Certification
Profiles with Qualification
166

Qualification
CompTIA A+
Profiles with Qualification
156

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.
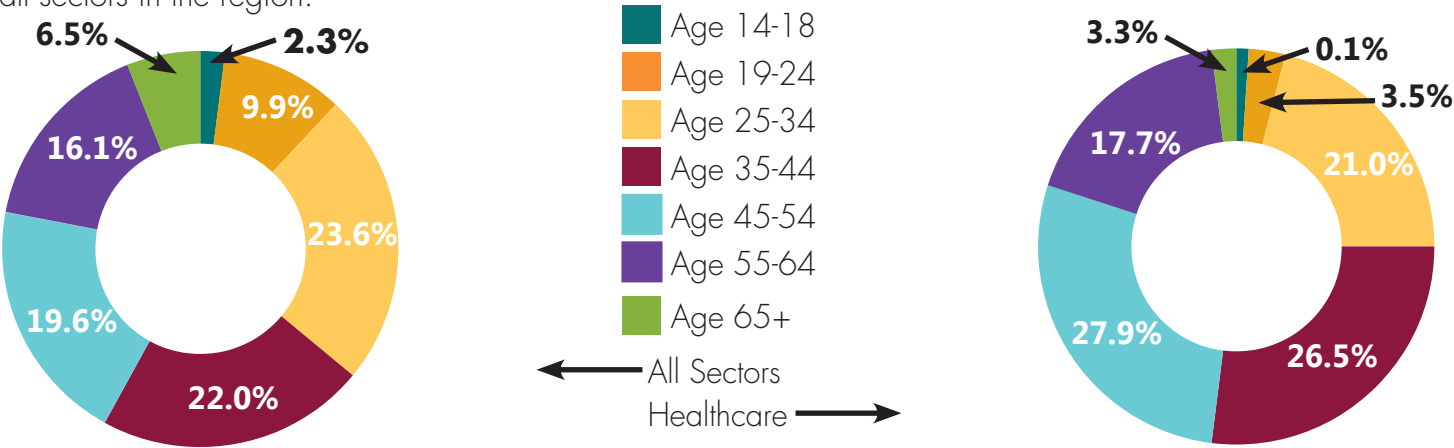
Source: EMSI Burning Glass

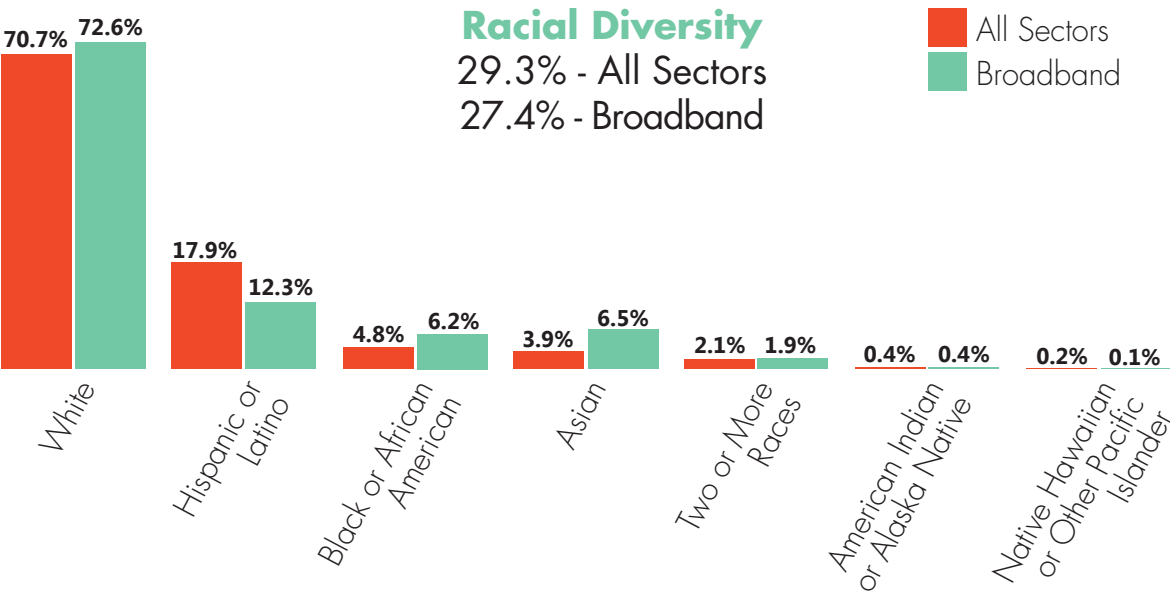| SOC Code	Description	Hires	Separations	Turnover Rate
43-4051	Customer Service Representatives	36,067	37,253	83.5%
41-3091	Sales Representatives of Services, Except Advertising, Insurance, Financial Services, & Travel	21,712	21,700	77.5%
43-1011	First-Line Supervisors of Office & Administrative Support Workers	11,802	12,573	62.2%
49-1011	First-Line Supervisors of Mechanics, Installers, & Repairers	4,883	4,847	55.9%
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%
49-9052	Telecommunications Line Installers & Repairers	924	792	49.3%
27-2012	Producers & Directors	777	854	45.5%
13-1198	Project Management Specialists & Business Operations Specialists, All Other	21,235	22,836	44.0%
27-4012	Broadcast Technicians	253	306	43.8%
49-2022	Telecommunications Equipment Installers & Repairers, Except Line Installers	1,468	1,440	42.3%
15-1232	Computer User Support Specialists	6,378	6,271	40.7%
15-1299	Computer Occupations, All Other	4,667	4,841	40.4%
41-1012	First-Line Supervisors of Non-Retail Sales Workers	2,738	2,713	39.7%
15-1244	Network & Computer Systems Administrators	4,009	4,375	38.0%
15-1241	Computer Network Architects	2,008	2,185	35.3%
15-1231	Computer Network Support Specialists	1,506	1,433	35.1%
15-1256	Software Developers & Software Quality Assurance Analysts & Testers	21,359	17,224	34.4%
17-2072	Electronics Engineers, Except Computer	1,714	1,744	28.1%

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.
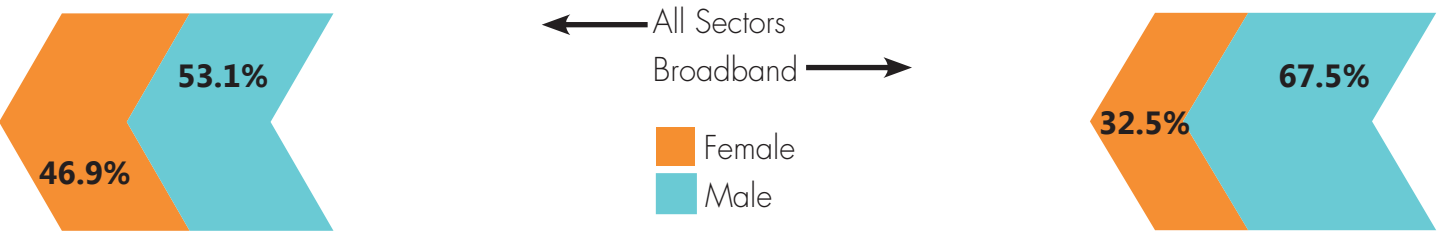
All Sectors
- 2.3%
- 6.5%
- 16.1%
- 19.6%
- 22.0%
- 23.6%
- 9.9%

Healthcare
- 3.3%
- 0.1%
- 3.5%
- 21.0%
- 26.5%
- 27.9%
- 17.7%

Legend:
- Age 14-18
- Age 19-24
- Age 25-34
- Age 35-44
- Age 45-54
- Age 55-64
- Age 65+

← All Sectors
Healthcare →

Comparative Racial & Ethnic Diversity

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

Racial Diversity
29.3% - All Sectors
27.4% - Broadband

Legend: All Sectors (red), Broadband (green)

Category	All Sectors	Broadband
White	70.7%	72.6%
Hispanic or Latino	17.9%	12.3%
Black or African American	4.8%	6.2%
Asian	3.9%	6.5%
Two or More Races	2.1%	1.9%
American Indian or Alaska Native	0.4%	0.4%
Native Hawaiian or Other Pacific Islander	0.2%	0.1%

Comparative Gender

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

All Sectors: Female 46.9%, Male 53.1%
Broadband: Female 32.5%, Male 67.5%

← All Sectors
Broadband →

Legend:
- Female
- Male

BROADBAND

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
15	Computer & Mathematical	5,190	1,114	21.5%
13	Business & Financial Operations	3,262	611	18.7%
27	Arts, Design, Entertainment, Sports, & Media	1,951	242	12.4%
19	Life, Physical, & Social Science	79	9	11.5%
21	Community & Social Service	0	0	11.4%
11	Management	1,234	140	11.3%
41	Sales & Related	4,144	459	11.1%
43	Office & Administrative Support	3,522	377	10.7%
17	Architecture & Engineering	2,105	192	9.1%
25	Educational Instruction & Library	<10	N/A	7.2%
49	Installation, Maintenance, & Repair	4,407	178	4.0%
31	Healthcare Support	<10	N/A	3.9%
47	Construction & Extraction	91	3	3.8%
33	Protective Service	33	1	3.6%
29	Healthcare Practitioners & Technical	0	0	3.5%
51	Production	24	1	3.3%
37	Building & Grounds Cleaning & Maintenance	14	0	2.9%
39	Personal Care & Service	<10	N/A	2.8%
53	Transportation & Material Moving	129	2	1.9%
35	Food Preparation & Serving Related	<10	N/A	1.2%

Remote Work Capability for Sector
Employed in Industry - 26,186
Estimated Remote Capability - 3,330
Percent of Occupation Family Posted Remote - 12.7%

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	91	**123.1**
37	Building & Grounds Cleaning & Maintenance	14	**122.5**
51	Production	24	**113.8**
53	Transportation & Material Moving	129	**110.9**
45	Farming, Fishing, & Forestry	0	**110.0**
49	Installation, Maintenance, & Repair	4,407	**108.9**
33	Protective Service	33	**98.7**
43	Office & Administrative Support	3,522	**98.1**
39	Personal Care & Services	<10	**96.1**
41	Sales & Related	4,144	**95.0**
31	Healthcare Support	<10	**95.0**
27	Arts, Design, Entertainment, Sports, & Media	1,951	**89.7**
13	Business & Financial Operations	3,262	**89.5**
29	Healthcare Practitioners & Technical	0	**88.3**
17	Architecture & Engineering	2,105	**87.0**
25	Educational Instruction & Library	<10	**85.9**
11	Management	1,234	**85.1**
15	Computer & Mathematical	5,190	**83.4**
21	Community & Social Service	0	**82.3**

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	293	1.1%	$60.37	Yes
13-1161	Market Research Analysts & Marketing Specialists	595	2.3%	$34.11	Yes
13-1198	Project Management Specialists & Business Operations Specialists, All Other	1,436	5.5%	$40.16	Yes
13-2011	Accountants & Auditors	326	1.2%	$37.08	Yes
15-1231	Computer Network Support Specialists	723	2.8%	$34.23	Yes
15-1232	Computer User Support Specialists	467	1.8%	$27.76	Yes
15-1241	Computer Network Architects	895	3.4%	$59.13	Yes
15-1244	Network & Computer Systems Administrators	751	2.9%	$42.81	Yes
15-1256	Software Developers & Software Quality Assurance Analysts & Testers	1,292	4.9%	$53.14	Yes
15-1299	Computer Occupations, All Other	292	1.1%	$50.03	Yes
17-2072	Electronics Engineers, Except Computer	1,806	6.9%	$55.43	Yes
27-2012	Producers & Directors	448	1.7%	$30.30	Yes
27-4012	Broadcast Technicians	344	1.3%	$27.23	Yes
41-1012	First-Line Supervisors of Non-Retail Sales Workers	411	1.6%	$41.35	No
41-3091	Sales Representatives of Services, Except Advertising, Insurance, Financial Services, & Travel	2,819	10.7%	$31.12	No
43-1011	First-Line Supervisors of Office & Administrative Support Workers	275	1.0%	$29.42	No
43-4051	Customer Service Representatives	1,863	7.1%	$17.56	Yes
49-1011	First-Line Supervisors of Mechanics, Installers, & Repairers	423	1.6%	$36.07	No
49-2022	Telecommunications Equipment Installers & Repairers, Except Line Installers	2,450	9.3%	$30.79	Yes
49-9052	Telecommunications Line Installers & Repairers	1,078	4.1%	$24.64	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.

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, & Travel	27,983	3,643		156	(3,487)	Moderate-term	HS Diploma or Equivalent
15-1256	Software Developers & Software Quality Assurance Analysts & Testers	50,056	5,808		3,626	(2,182)	None	Bachelor's Degree
41-1012	First-Line Supervisors of Non-Retail Sales Workers	6,841	670		10	(660)	None	HS Diploma or Equivalent
49-2022	Telecommunications Equipment Installers & Repairers, Except Line Installers	3,407	434		245	(189)	Moderate-term	Postsecondary Nondegree
49-9052	Telecommunications Line Installers & Repairers	1,608	211		243	32	Long-term	HS Diploma or Equivalent
27-4012	Broadcast Technicians	699	79		152	73	Short-term	Associate's Degree
17-2072	Electronics Engineers, Except Computer	6,213	485		1,204	719	None	Bachelor's Degree
27-2012	Producers & Directors	1,879	209		1,287	1,078	None	Bachelor's Degree
49-1011	First-Line Supervisors of Mechanics, Installers, & Repairers	8,673	935		2,271	1,336	None	HS Diploma or Equivalent
15-1244	Network & 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
15-1241	Computer Network Architects	6,194	468		4,120	3,652	None	Bachelor's Degree
15-1299	Computer Occupations, All Other	11,969	1,162		8,236	7,074	Moderate-term	Bachelor's Degree
13-2011	Accountants & 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	Short-term	HS Diploma or Equivalent
13-1161	Market Research Analysts & Marketing Specialists	20,905	2,766		12,746	9,980	None	Bachelor's Degree
43-1011	First-Line Supervisors of Office & Administrative Support Workers	20,206	2,293		16,743	14,450	None	HS Diploma or Equivalent
11-1021	General & Operations Managers	32,731	3,590		18,053	14,463	None	Bachelor's Degree
13-1198	Project Management Specialists & 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
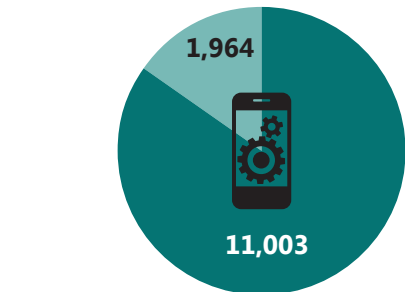
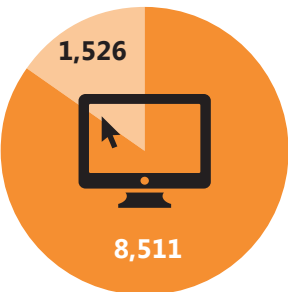Total Job Postings (Jan 2021-Dec 2021)

Darker Color

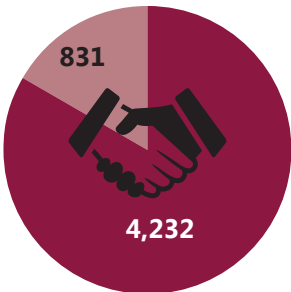Unique Job Postings (Jan 2021-Dec 2021)

Lighter Color

1,964
11,003
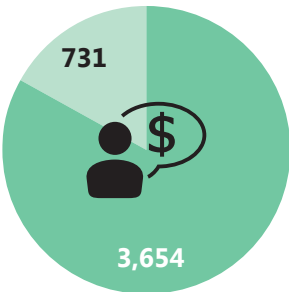Software Developers & Software Quality Assurance Analysts & Testers

1,526
8,511
Computer Occupations, All Other

1,023
8,248
Retail Salespersons

831
4,232
Personal Service Managers, All Other; Entertainment & Recreation Managers, Except Gambling; & Managers, All Other
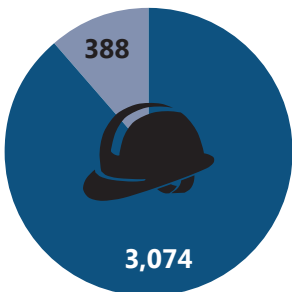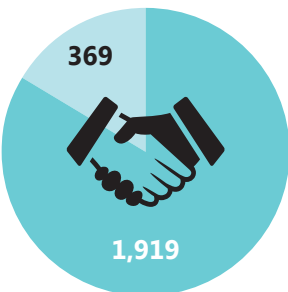
731
3,654
Marketing Managers
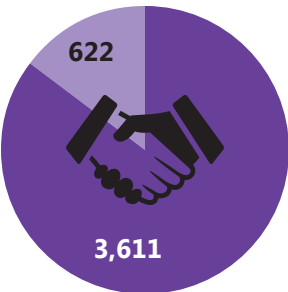
622
3,611
Sales Representatives, Wholesale & Manufacturing, Except Technical & Scientific Products
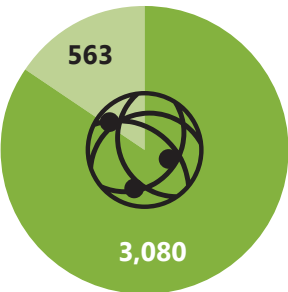
563
3,080
Computer Network Architects

388
3,074
Telecommunications Equipment Installers & Repairers, Except Line Installers

369
1,919
General & Operations Managers
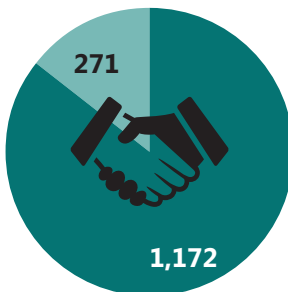
271
1,172
Sales Managers

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 Dish Network

2 Spectrum

3 Comcast

4 Verizon Communications

5 Zayo Group

Certifications

1 Master Of Business Administration (MBA)

2 Certified Plant Engineer

3 Cisco Certified Network Associate

4 Cisco Certified Network Professional

5 Bachelor Of Science in Business

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

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

JOB LISTINGS

1 Dejobs.org

2 Indeed.com

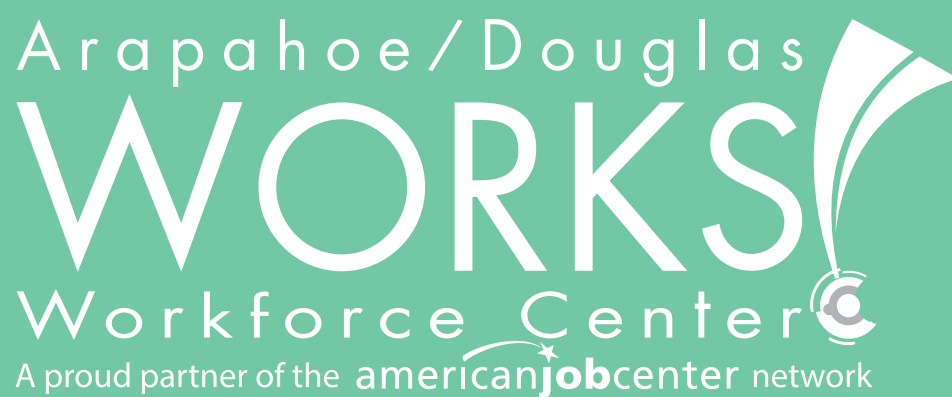3 Recruiternetworks.com

4 Simplyhired.com

5 Dish.com

JOB FAMILY

1 Computer and Mathematical

2 Installation, Maintenance, and Repair

3 Sales and Related

4 Office and Administrative Support

5 Business and Financial Operations

Source: EMSI Burning Glass

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	Customer Experience	2,685	17.2%	2,252	6.8%
2	Telecommunications	2,220	14.2%	7,954	23.9%
3	Automation	2,107	13.5%	1,245	3.7%
4	Computer Science	2,091	13.4%	93	0.3%
5	Agile Methodology	1,795	11.5%	2,376	7.1%
6	Python	1,641	10.5%	1,120	3.4%
7	Project Management	1,307	8.4%	3,694	11.1%
8	SQL (Programming Language)	1,294	8.3%	2,473	7.4%
9	Finance	1,272	8.1%	1,647	4.9%
10	New Product Development	1,192	7.6%	1,401	4.2%
11	Amazon Web Services	1,155	7.4%	666	2.0%
12	Auditing	1,124	7.2%	1,490	4.5%
13	Software Development	1,121	7.2%	2,273	6.8%
14	Scripting	1,063	6.8%	564	1.7%
15	Network Routing	1,050	6.7%	1,150	3.5%
16	Product Management	1,049	6.7%	2,167	6.5%
17	Data Analysis	1,044	6.7%	2,015	6.1%
18	5G Technology	1,033	6.6%	228	0.7%
19	Process Improvement	1,014	6.5%	3,274	9.8%
20	Network Engineering	1,002	6.4%	1,851	5.6%

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