



2022

Manufacturing INDUSTRY PROFILE

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

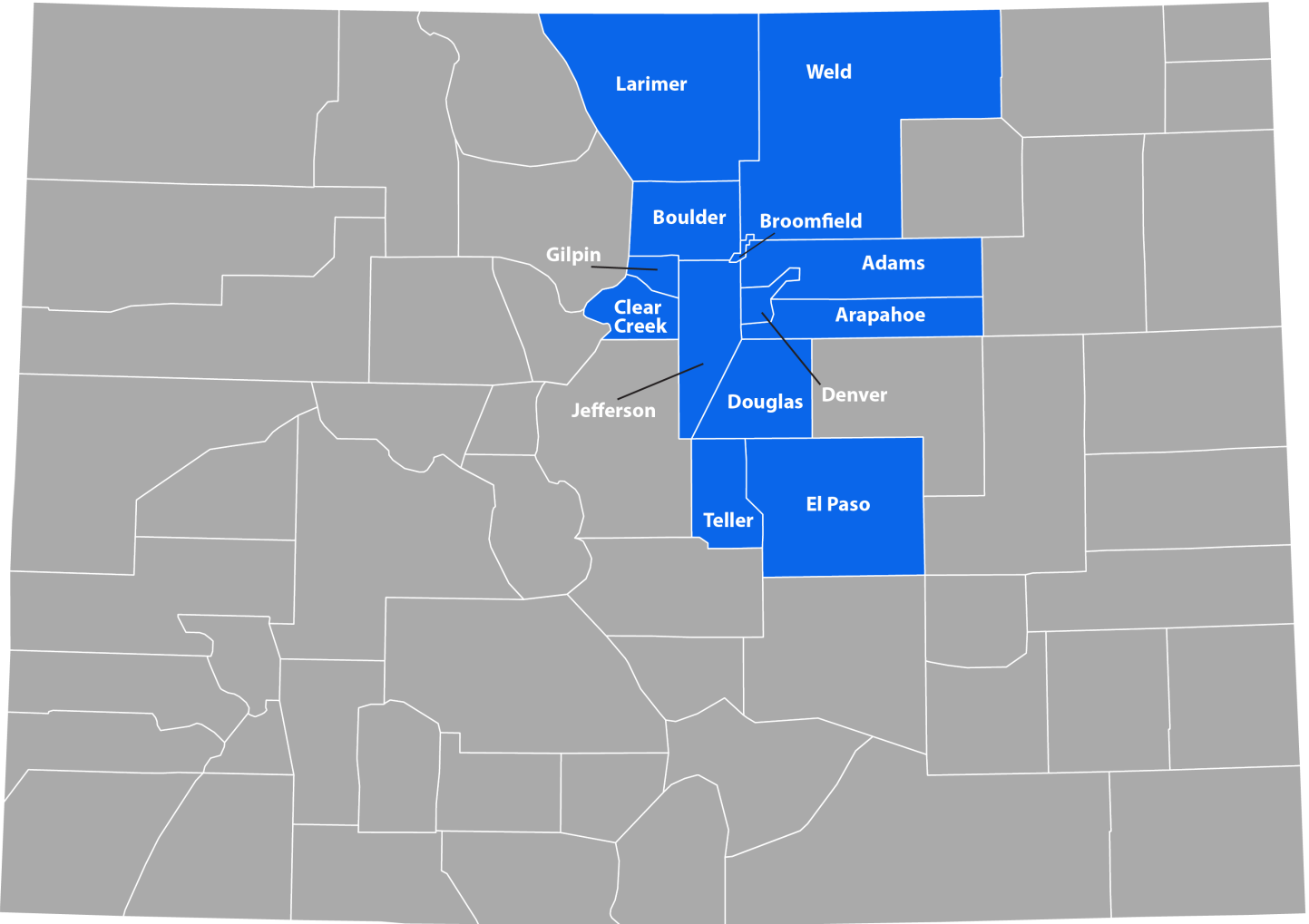
The geographic area for this industry profile includes the 13 counties that make up Colorado’s Urban Front Range.

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.

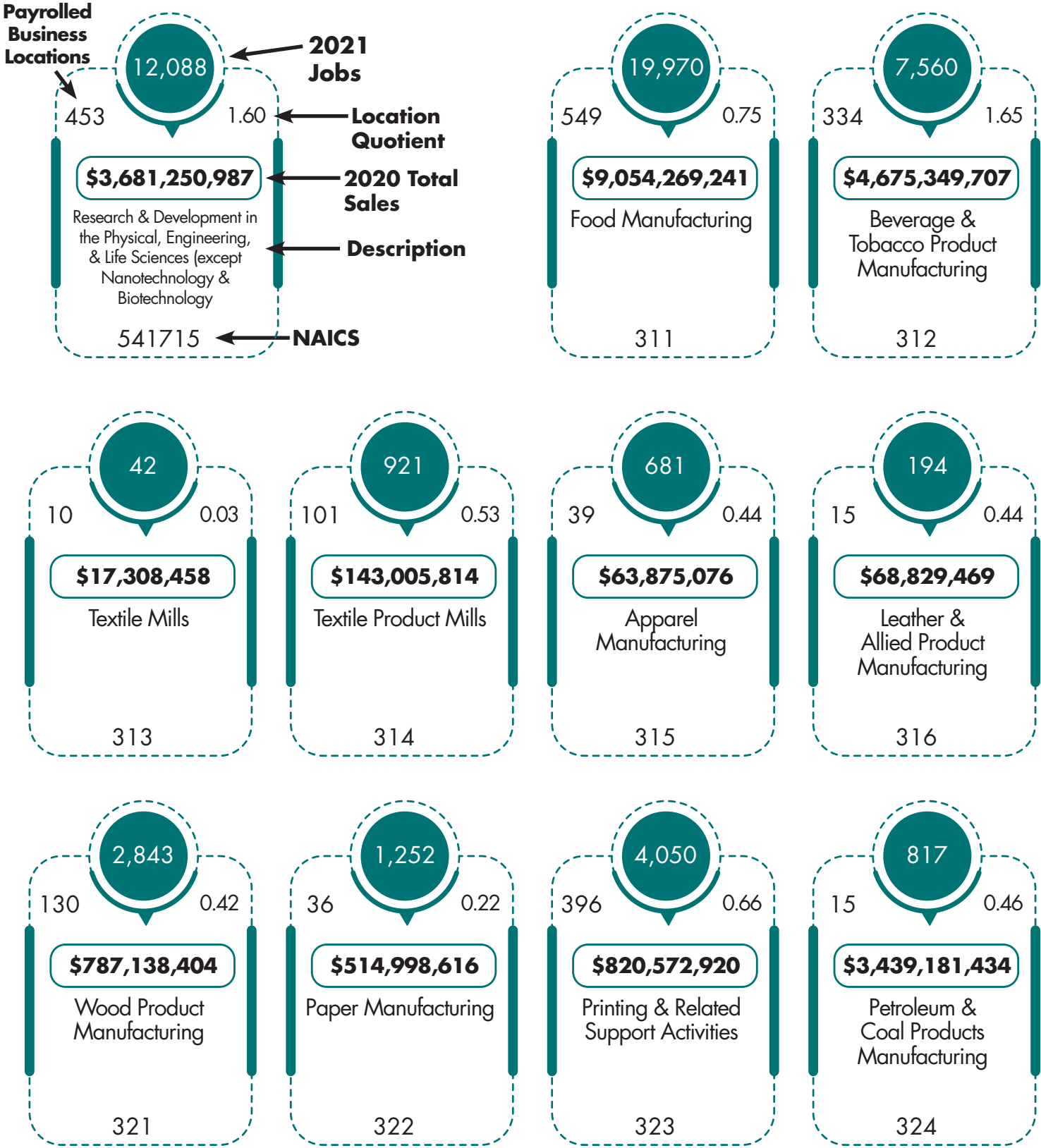
In 2020, the gross regional product (GRP) for Colorado’s Urban Front Range was \$312.76 billion, which made up around 1.7% of the national GRP. GRP is the total market value of all goods and services produced in the region.



INDUSTRIES MAKING UP THE SECTOR

The Manufacturing Sector employs 135,245 people in 4,706 payrolled business locations along Colorado’s Urban Front Range. In 2020, the sector had \$54.1 billion in sales, and contributed \$23.8 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.



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INDUSTRIES MAKING UP THE SECTOR



Source: EMSI Burning Glass

TOTALS

2021 Jobs - 135,245

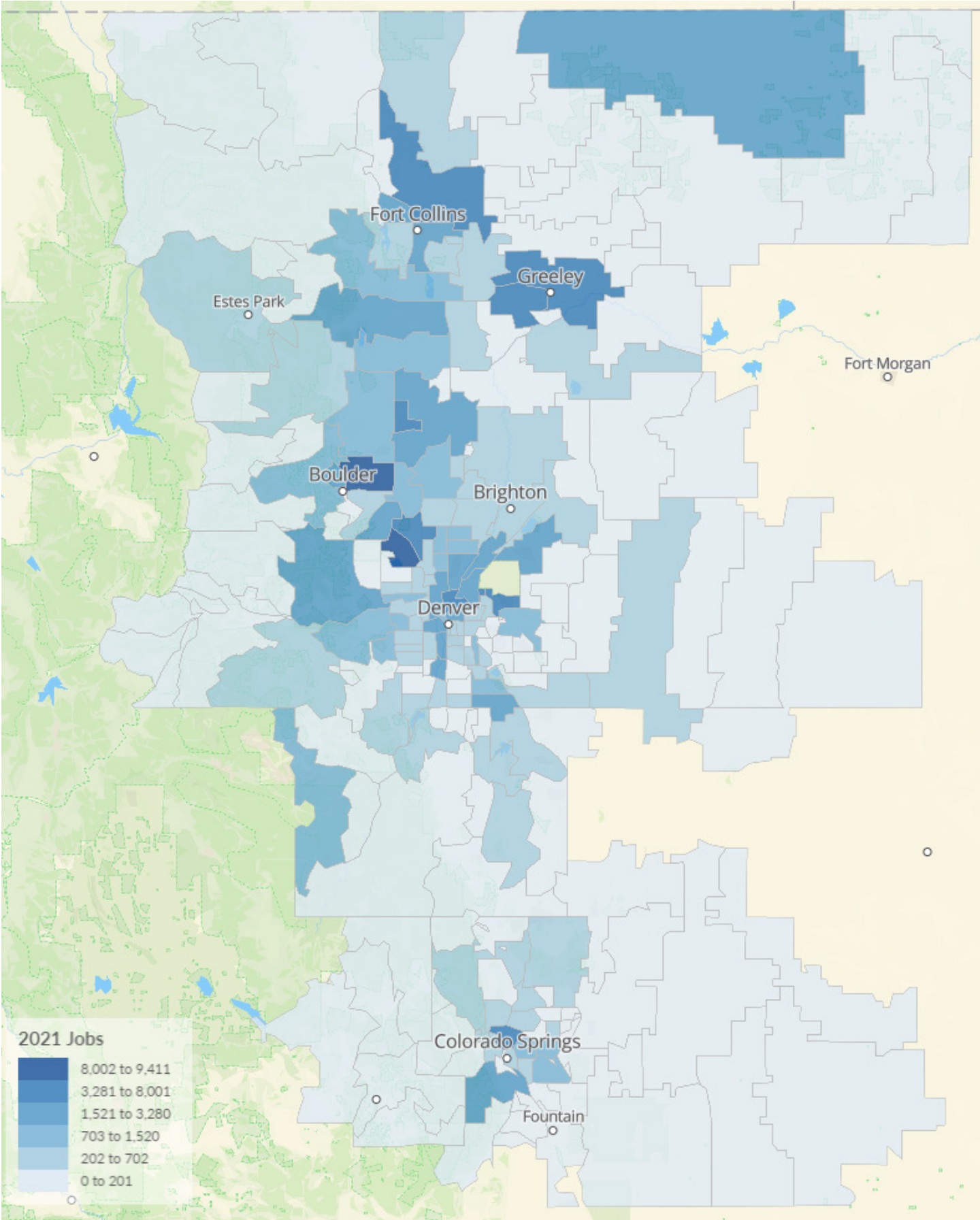
Payrolled Business Locations - 4,706

Location Quotient - 0.83

Total Sales - \$54,139,713,669

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EMPLOYMENT CONCENTRATION MAP



Source: EMSI Burning Glass

EMPLOYMENT CONCENTRATION

Overall, employment in the sector is less concentrated at 0.83 times the national average, but the region is a hub for several manufacturing industries, including turbines, blinds and shades, guided missiles and space vehicles, frozen desserts, medicinal and botanical products, ceramics, computer storage devices, breweries, and the manufacture of various types of instruments.

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
Boulder	21,204	\$87,654	\$18,782
Jefferson	21,079	\$105,330	\$26,387
Denver	20,668	\$64,441	\$15,094
Adams	15,025	\$62,098	\$15,066
Larimer	14,770	\$93,335	\$19,563
Weld	14,591	\$58,327	\$12,758
El Paso	12,007	\$64,893	\$14,128
Arapahoe	8,973	\$67,459	\$15,340
Broomfield	4,251	\$153,368	\$29,428
Douglas	2,414	\$59,296	\$14,404
Teller	171	\$66,285	\$12,804
Clear Creek	86	\$52,539	\$11,670
Gilpin	<10	Insf. Data	Insf. Data
TOTALS	135,237	\$79,629	\$18,029

Source: EMSI Burning Glass

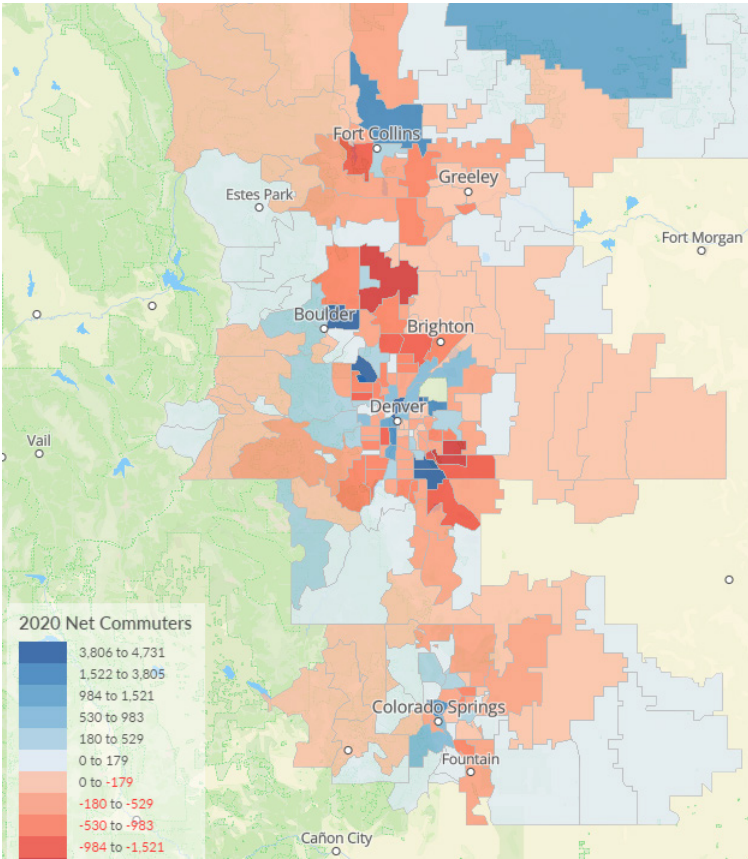
WHERE CORE WORKFORCE LIVES

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:

- Production
- Engineering



County	Net Commuters	Resident Workers	Jobs
Denver	10,565	19,580	30,145
Boulder	4,396	14,315	18,711
Arapahoe	1,402	17,283	18,685
Clear Creek	24	140	164
Gilpin	(82)	127	46
Teller	(309)	622	314
Larimer	(751)	13,871	13,120
Broomfield	(752)	4,017	3,265
El Paso	(1,196)	17,966	16,770
Jefferson	(2,065)	22,499	20,433
Adams	(2,924)	17,353	14,428
Weld	(4,233)	16,464	12,231
Douglas	(4,490)	10,020	5,529

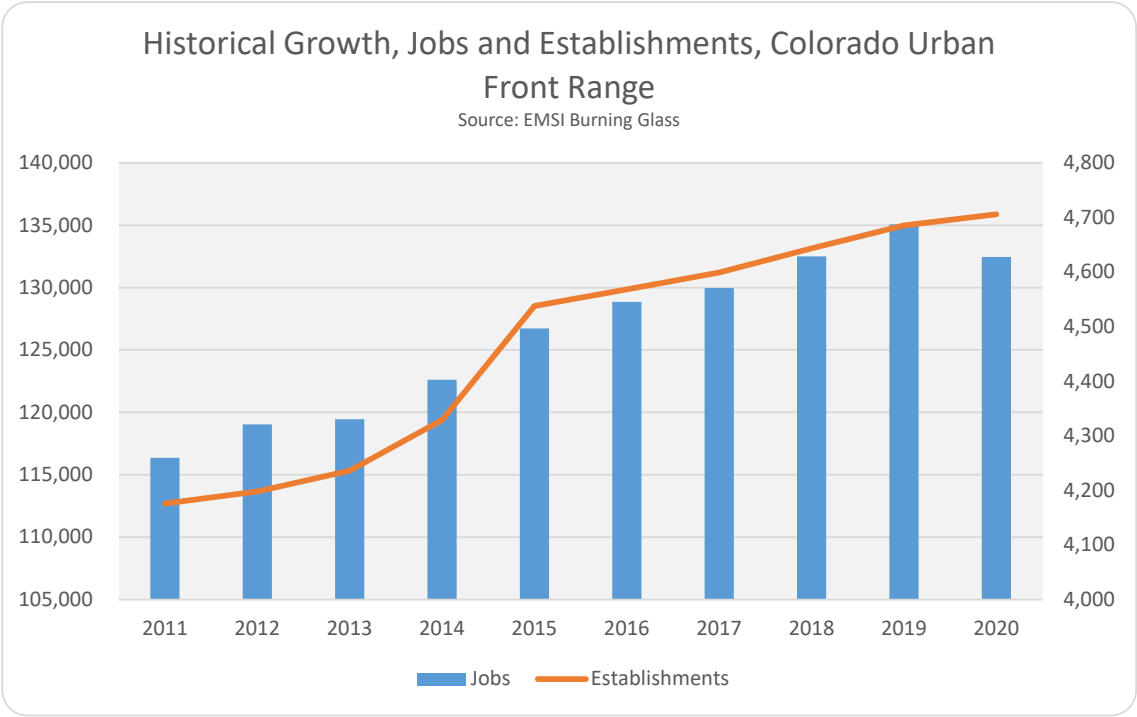
Source: EMSI Burning Glass

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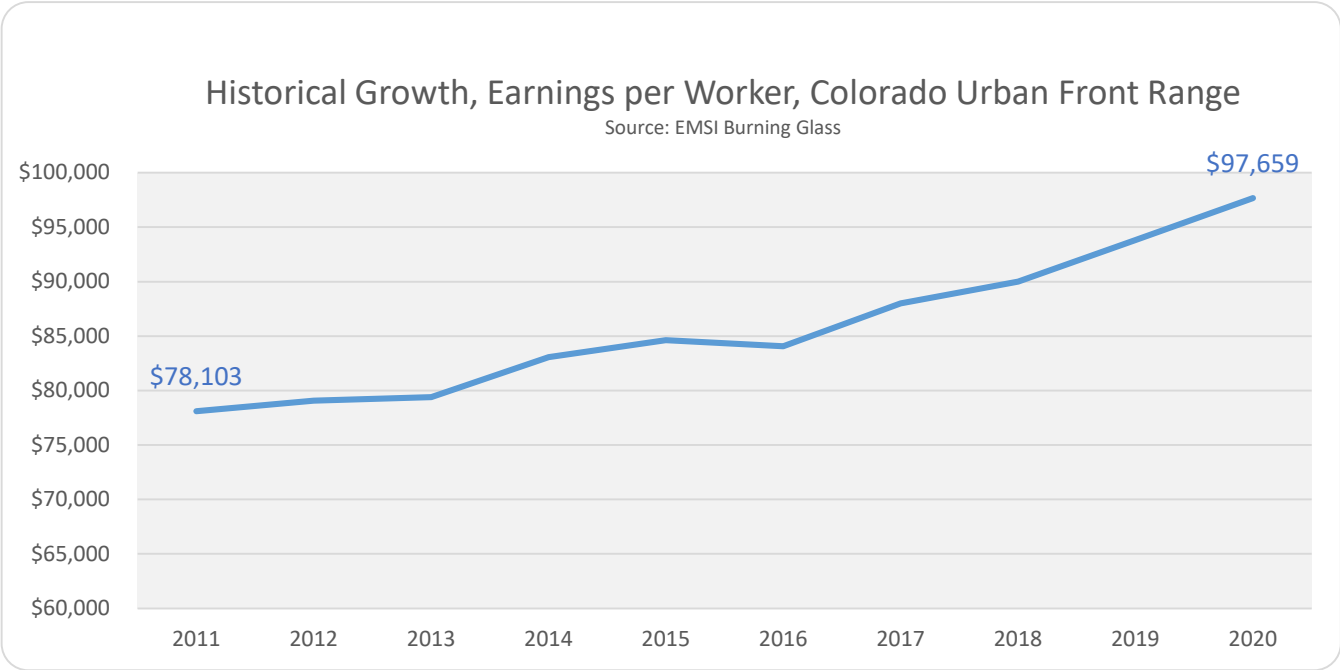
HISTORICAL TRENDS & GROWTH

- Over the last decade, employment in the Manufacturing Sector grew by 16,093 jobs, an annual growth rate of 1.45%.
- The number of establishments grew annually by 1.3% over the same time period, moving from 4,176 in 2011 to 4,706 in 2020.
- Average worker earnings in the sector, which includes wages, salaries, and compensation, grew from \$78,103 in 2011 to \$97,659 in 2020, an annual growth rate of 2.5%.

Historical Trends



Historical Growth



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PROJECTED GROWTH

The Manufacturing Sector is expected to grow at an annual rate of 1.2%, with the number of jobs increasing to 141,944 by 2025. Colorado continues to be a leader in aerospace, bioscience, electronic devices, and breweries.

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

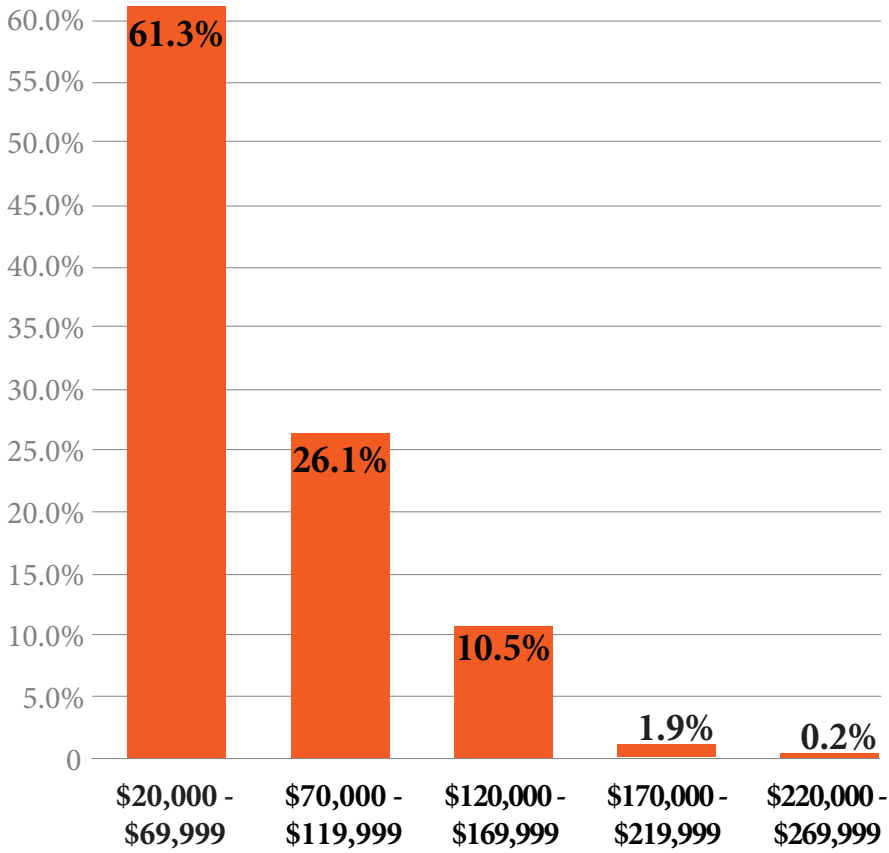
Source: EMSI Burning Glass

NAICS	Description	2021 Jobs	2025 Jobs	2021-2025 Change	Location Quotient	2020 Payrolled Business Locations
334	Computer & Electronic Product Manufacturing	23,052	23,680	628	1.34	357
311	Food Manufacturing	19,970	21,845	1,548	0.75	549
332	Fabricated Metal Product Manufacturing	12,350	12,845	495	0.55	700
333	Machinery Manufacturing	11,340	12,586	1,245	0.66	274
336	Transportation Equipment Manufacturing	11,106	12,159	1,052	0.43	147
339	Miscellaneous Manufacturing	9,814	9,878	64	0.98	518
325	Chemical Manufacturing	8,688	9,762	1,075	0.63	335
312	Beverage & Tobacco Product Management	7,560	7,814	254	1.65	334
327	Nonmetallic Mineral Product Manufacturing	6,698	6,679	(19)	1.02	224
326	Plastics & Rubber Products Manufacturing	5,631	5,959	328	0.51	158
337	Furniture & Related Product Manufacturing	4,998	5,084	85	0.81	235
323	Printing & Related Product Manufacturing	4,050	3,437	(613)	0.66	396
321	Wood Product Manufacturing	2,843	2,967	124	0.42	130
335	Electrical Equipment, Appliance, & Component Manufacturing	2,101	2,322	221	0.34	84
322	Paper Manufacturing	1,252	1,269	17	0.22	36
331	Primary Metal Manufacturing	1,135	1,357	221	0.20	50
314	Textile Product Mills	921	804	(118)	0.53	101
324	Petroleum & Coal Products Manufacturing	817	882	65	0.46	15
315	Apparel Manufacturing	681	688	7	0.44	39
316	Leather & Allied Product Manufacturing	194	203	10	0.44	15
Totals		135,245	141,944	6,700	0.83	4,706

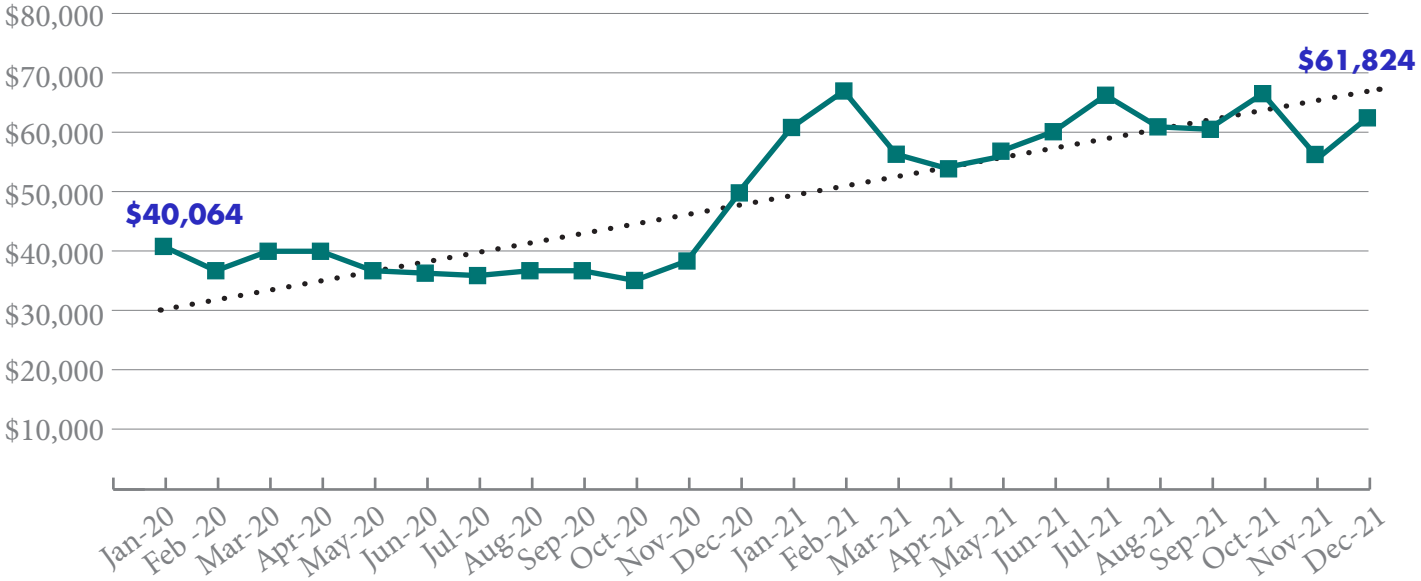
WAGE TRENDS

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 \$60,032. 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	2,152	1.6%	33,191		3,558	\$71.33	\$26.59	\$39.15	\$60.40	\$93.61	\$132.61
13-1028	Buyers and Purchasing Agents	1,741	1.3%	9,239		935	\$35.18	\$19.19	\$24.44	\$33.21	\$43.84	\$54.70
13-1198	Project Management Specialists & Business Operations Specialists, All Other	2,485	1.8%	52,935		4,660	\$43.93	\$22.70	\$29.44	\$40.17	\$54.02	\$69.09
13-2011	Accountants & Auditors	1,681	1.3%	36,482		3,858	\$41.49	\$22.70	\$28.10	\$37.11	\$50.48	\$65.26
15-1256	Software Developers & Software Quality Assurance Analysts & Testers	4,255	3.1%	50,628		5,564	\$54.24	\$32.73	\$40.77	\$53.12	\$66.25	\$79.50
17-2112	Industrial Engineers	2,669	1.9%	4,308		389	\$48.37	\$31.39	\$37.02	\$46.29	\$58.12	\$70.09
17-2141	Mechanical Engineers	2,052	1.5%	5,530		426	\$49.92	\$29.14	\$35.16	\$45.25	\$58.04	\$77.91
41-4012	Sales Reps, Wholesale & Manufacturing, Except Technical & Scientific Products	3,689	2.7%	26,457		2,898	\$39.78	\$15.91	\$22.74	\$33.69	\$49.57	\$70.97
43-4051	Customer Service Representatives	1,624	1.2%	45,084		6,141	\$19.05	\$12.44	\$14.14	\$17.56	\$22.29	\$27.86
43-5071	Shipping, Receiving & Inventory Clerks	2,344	1.8%	11,005		1,140	\$18.80	\$12.85	\$14.95	\$17.93	\$21.86	\$26.09
51-1011	First-Line Supervisors of Production & Operating Workers	4,087	3.0%	6,276		728	\$34.23	\$19.43	\$24.15	\$32.15	\$42.39	\$53.01
51-2028	Electrical, Electronic, & Electromechanical Assemblers, Except Coil Winders, Tapers, & Finishers	4,692	3.5%	5,640		670	\$18.50	\$12.91	\$14.81	\$17.49	\$20.99	\$25.75
51-2098	Miscellaneous Assemblers & Fabricators	5,097	3.8%	8,026		901	\$17.43	\$12.49	\$13.89	\$16.46	\$19.61	\$23.92
51-3092	Food Batchmakers	2,191	1.6%	2,718		390	\$16.97	\$12.54	\$13.81	\$16.25	\$19.60	\$23.04
51-4041	Machinists	3,125	2.3%	4,008		477	\$22.55	\$15.17	\$17.73	\$22.03	\$26.94	\$31.19
51-4121	Welders, Cutters, Solderers, & Brazers	2,032	1.5%	4,251		531	\$24.85	\$16.29	\$18.92	\$23.47	\$28.85	\$33.60
51-9012	Separating, Filtering, Clarifying, Precipitating, & Still Machine Setters, Operators, & Tenders	1,679	1.2%	1,891		208	\$24.62	\$14.04	\$17.61	\$23.18	\$30.41	\$36.89
51-9061	Inspectors, Testers, Sorters, Samplers & Weighers	2,826	2.1%	5,340		670	\$24.86	\$14.68	\$17.37	\$22.02	\$29.72	\$38.41
51-9111	Packaging & Filling Machine Operators & Tenders	3,329	2.4%	4,350		576	\$17.01	\$12.41	\$13.73	\$16.06	\$19.34	\$23.35
53-7062	Laborers & Freight, Stock & Material Movers, Hand	2,308	1.7%	27,816		4,585	\$17.45	\$12.43	\$13.93	\$16.62	\$19.43	\$23.73

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.

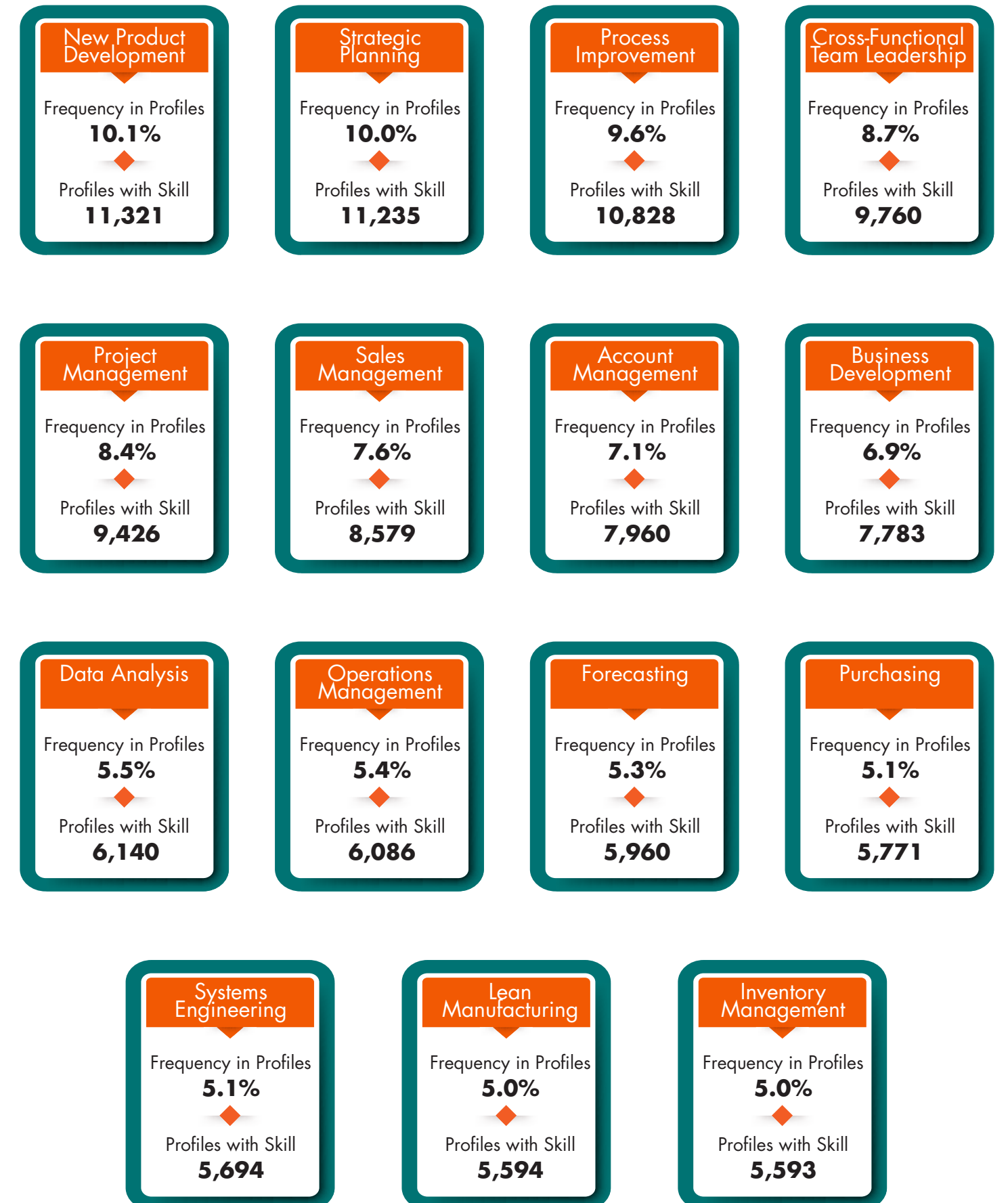
Occupation	Profiles	Percent
Sales Managers	5,871	5.2%
Software Developers & Software Quality Assurance Analysts & Testers	5,862	5.2%
Personal Service Managers, All Other; Entertainment & Recreation Managers, Except Gambling	4,907	4.4%
Marketing Managers	4,187	3.7%
General & Operations Managers	3,274	2.9%
Chief Executives	3,025	2.7%
Industrial Engineers	2,883	2.6%
Computer User Support Specialists	2,673	2.4%
Computer Occupations, All Other	2,591	2.3%
Mechanical Engineers	2,581	2.3%
Customer Service Representatives	2,501	2.2%
First-Line Supervisors of Office & Administrative Support Workers	2,349	2.1%
Engineers, All Other	2,269	2.0%
Sales Representatives, Wholesale & Manufacturing, Except Technical & Scientific Products	2,246	2.0%
Architectural & Engineering Managers	2,177	1.9%
Financial Managers	1,910	1.7%
First-Line Supervisors of Production & Operating Workers	1,887	1.7%
Computer & Information Systems Managers	1,714	1.5%
Network & Computer Systems Administrators	1,693	1.5%
Industrial Production Managers	1,360	1.2%

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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



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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

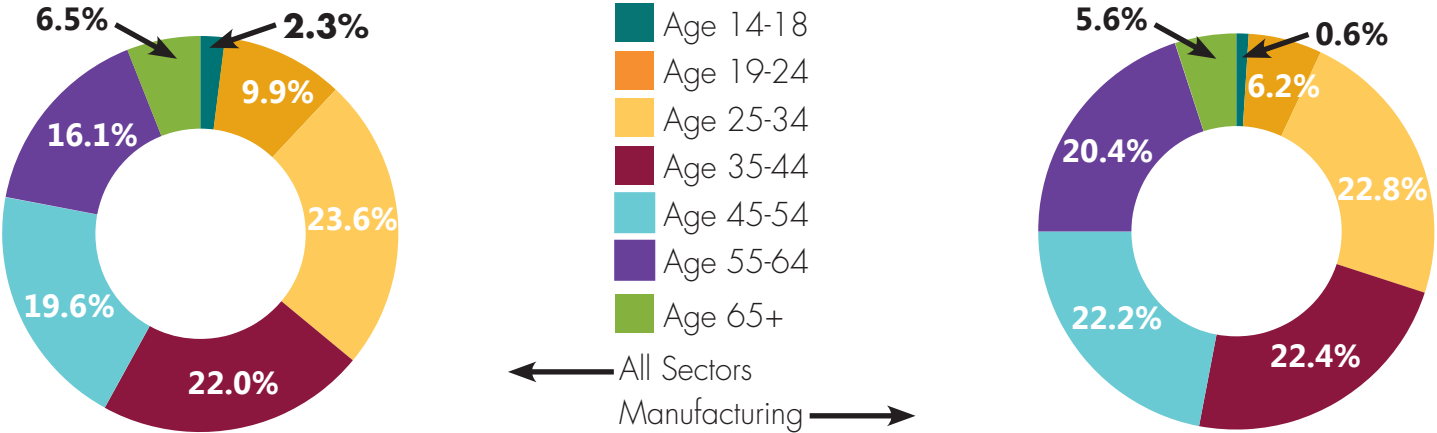
SOC Code	Description	Hires	Separations	Turnover Rate
53-7062	Laborers & Freight, Stock, & Material Movers, Hand	38,381	34,630	130.0%
51-3092	Food Batchmakers	2,645	2,693	102.1%
51-2098	Miscellaneous Assemblers & Fabricators	7,154	7,458	93.8%
51-9111	Packaging & Filling Machine Operators & Tenders	3,827	3,691	87.7%
43-4051	Customer Service Representatives	35,872	37,089	83.4%
51-9061	Inspectors, Testers, Sorters, Samplers & Weighers	3,957	4,263	81.1%
43-5071	Shipping, Receiving & Inventory Clerks	7,535	8,247	76.1%
51-4121	Welders, Cutters, Solderers, & Brazers	3,027	2,918	70.2%
51-9012	Separating, Filtering, Clarifying, Precipitating, & Still Machine Setters, Operators, & Testers	1,275	1,268	68.0%
13-1028	Buyers and Purchasing Agents	4,456	5,107	55.8%
51-4041	Machinists	2,242	2,186	55.6%
13-2011	Accountants & Auditors	18,656	19,519	54.8%
11-1021	General & Operations Managers	18,273	17,049	53.0%
51-1011	First-Line Supervisors of Production & Operating Workers	3,185	3,104	50.6%
41-4012	Sales Representatives, Wholesale & Manufacturing, Except Technical & Scientific Products	12,910	12,651	48.5%
13-1198	Project Management Specialists & Business Operations Specialists, All Other	20,902	23,188	44.7%
51-2028	Electrical, Electronic, & Electromechanical Assemblers, Except Coil Winders, Tapers, & Finishers	2,465	2,454	44.3%
15-1256	Software Developers & Software Quality Assurance Analysts & Testers	20,576	23,188	44.7%
17-2112	Industrial Engineers	1,397	1,188	28.6%
17-2141	Mechanical Engineers	1,533	1,448	26.9%

DEMOGRAPHICS

Source: EMSI Burning Glass

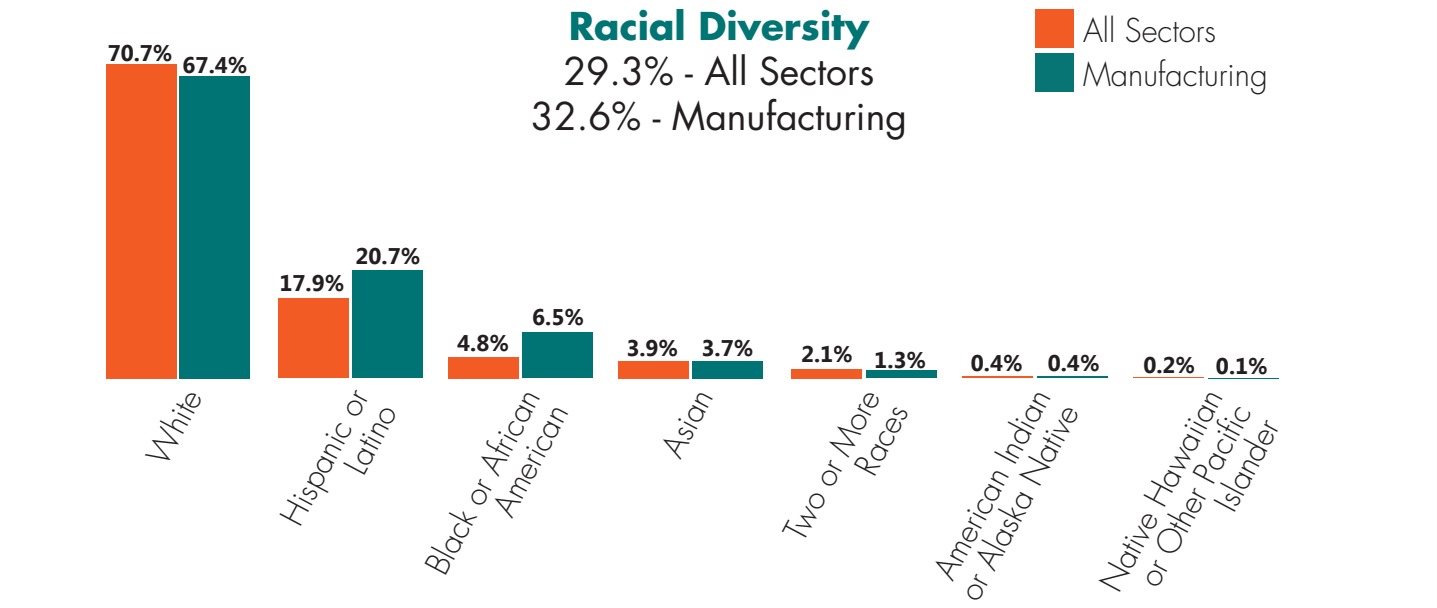
Comparative Retirement Risk

The Sector has lower retirement risk, with 5.6% of its labor force aged 65 or older, compared with 6.5% for all sectors in the region.



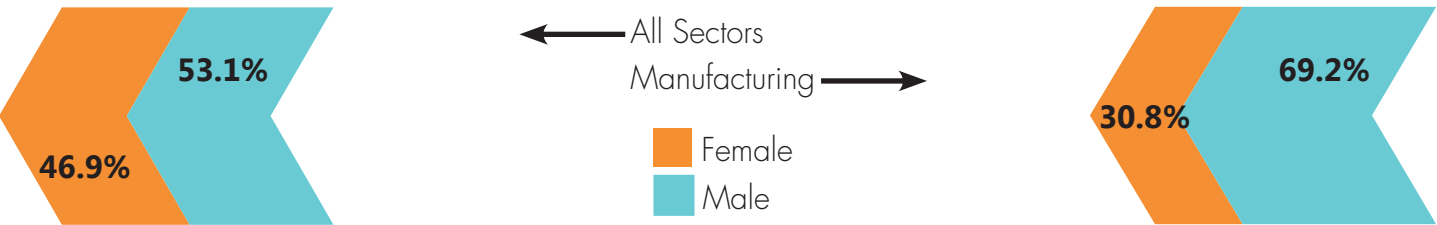
Comparative Racial & Ethnic Diversity

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.



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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
13	Business & Financial Operations	10,302	1,944	18.9%
51	Production	56,098	1,765	3.1%
15	Computer & Mathematical	6,998	1,550	22.2%
17	Architecture & Engineering	12,903	1,193	9.2%
43	Office & Administrative Support	9,935	1,057	10.6%
11	Management	7,688	881	11.5%
41	Sales & Related	6,903	755	10.9%
19	Life, Physical, & Social Science	2,403	271	11.3%
49	Installation, Maintenance, & Repair	5,457	220	4.0%
27	Arts, Design, Entertainment, Sports, & Media	1,540	192	12.5%
53	Transportation & Material Moving	10,395	180	1.7%
47	Construction & Extraction	1,808	64	3.5%
23	Legal	132	21	16.1%
35	Food Preparation & Serving Related	1,490	16	1.1%
37	Building & Grounds Cleaning & Maintenance	575	15	2.6%
45	Farming, Fishing, & Forestry	353	10	2.7%
29	Healthcare Practitioners & Technical	147	5	3.5%
33	Protective Service	63	2	3.7%
39	Personal Care & Service	32	1	2.6%
31	Healthcare Support	15	1	3.7%

Remote Work Capability for Sector
Employed in Industry - 135,237
Estimated Remote Capability - 10,141
Percent of Occupation Family Posted Remote - 7.5%

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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	1,490	125.8
47	Construction & Extraction	1,808	123.4
37	Building & Grounds Cleaning & Maintenance	575	122.6
51	Production	56,098	113.8
53	Transportation & Material Moving	10,395	110.5
45	Farming, Fishing, & Forestry	353	110.0
49	Installation, Maintenance, & Repair	5,457	108.9
33	Protective Service	63	98.7
43	Office & Administrative Support	9,935	98.0
39	Personal Care & Services	32	96.3
31	Healthcare Support	15	95.0
41	Sales & Related	6,903	94.8
27	Arts, Design, Entertainment, Sports, & Media	1,540	89.9
13	Business & Financial Operations	10,302	89.5
29	Healthcare Practitioners & Technical	147	88.3
17	Architecture & Engineering	12,903	87.0
11	Management	7,688	85.1
19	Life, Physical, & Social Science	2,403	84.6
23	Legal	132	84.0
15	Computer & Mathematical	6,998	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	2,152	1.6%	\$60.40	Yes
13-1028	Buyers & Purchasing Agents	1,741	1.3%	\$33.21	Yes
13-1198	Project Management Specialists & Business Operations Specialists, All Other	2,485	1.8%	\$40.17	No
13-2011	Accountants & Auditors	1,681	1.3%	\$37.11	Yes
15-1256	Software Developers & Software Quality Assurance Analysts & Testers	4,255	3.1%	\$53.12	Yes
17-2112	Industrial Engineers	2,669	1.9%	\$46.29	Yes
17-2141	Mechanical Engineers	2,052	1.5%	\$45.25	Yes
41-4012	Sales Representatives, Wholesale & Manufacturing, Except Technical & Scientific	3,689	2.7%	\$33.69	Yes
43-4051	Customer Services Representatives	1,624	1.2%	\$17.56	Yes
43-5071	Shipping, Receiving, & Inventory Clerks	2,344	1.8%	\$17.93	No
51-1011	First-Line Supervisors of Production & Operation Workers	4,087	3.0%	\$32.15	No
51-2028	Electrical, Electronic, & Electromechanical Assemblers, Except Coil Winders, Tapers, & Finishers	4,692	3.5%	\$17.49	Yes
51-2098	Miscellaneous Assemblers & Fabricators	5,097	3.8%	\$16.46	Yes
51-3092	Food Batchmakers	2,191	1.6%	\$16.25	Yes
51-4041	Machinists	3,125	2.3%	\$22.03	Yes
51-4121	Welders, Cutters, Solderers, & Brazers	2,032	1.5%	\$23.47	Yes
51-9012	Separating, Filtering, Clarifying, Precipitating, & Still Machine Setters, Operators, & Tenders	1,679	1.2%	\$23.18	Yes
51-9061	Inspectors, Testers, Sorters, Samplers, & Weighers	2,826	2.1%	\$22.02	Yes
51-9111	Packaging & Filling Machine Operators & Tenders	3,329	2.4%	\$16.06	No
53-7062	Laborers & Freight, Stock, & Material Movers, Hand	2,308	1.7%	\$16.62	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.

SOC Code	Description	2021 Jobs	Average Annual Openings		Regional Completions	Surplus/ (Shortfall)	Typical On-the-Job Training	Typical Entry Level Education
53-7062	Laborers & Freight, Stock & Material Movers, Hand	27,816	4,585		0	(4,585)	Short-term OJT	No Formal Credential
15-1256	Software Developers & Software Quality Assurance Analysts & Testers	50,628	5,564		3,626	(1,938)	None	Bachelor's Degree
43-5071	Shipping, Receiving & Inventory Clerks	11,005	1,140		0	(1,140)	Short-term OJT	HS Diploma or Equivalent
51-2098	Miscellaneous Assemblers & Fabricators	8,026	901		0	(901)	Moderate-term OJT	HS Diploma or Equivalent
13-1028	Buyers and Purchasing Agents	9,239	935		121	(814)	Moderate-term OJT	Bachelor's Degree
51-9061	Inspectors, Testers, Sorters, Samplers & Weighers	5,340	670		60	(610)	Moderate-term OJT	HS Diploma or Equivalent
51-1011	First-Line Supervisors of Production & Operating Workers	6,276	728		145	(583)	None	HS Diploma or Equivalent
51-9111	Packaging & Filling Machine Operators & Tenders	4,350	576		0	(576)	Moderate-term OJT	HS Diploma or Equivalent
51-2028	Electrical, Electronic, & Electromechanical Assemblers, Except Coil Winders, Tapers, & Finishers	5,640	670		99	(571)	Moderate-term OJT	HS Diploma or Equivalent
51-3092	Food Batchmakers	2,718	390		22	(368)	Moderate-term OJT	HS Diploma or Equivalent
51-4041	Machinists	4,008	477		291	(186)	Long-term OJT	HS Diploma or Equivalent
51-9012	Separating, Filtering, Clarifying, Precipitating, & Still Machine Setters, Operators, & Tenders	1,891	208		22	(186)	Moderate-term OJT	HS Diploma or Equivalent
17-2112	Industrial Engineers	4,308	389		214	(175)	None	Bachelor's Degree
51-4121	Shipping, Receiving, & Inventory Clerks	4,251	531		1,312	781	Moderate-term OJT	HS Diploma or Equivalent
17-2141	Mechanical Engineers	5,530	426		1,954	1,528	None	Bachelor's Degree
13-2011	Accountants & Auditors	36,482	3,858		12,063	8,205	None	Bachelor's Degree
43-4051	Customer Service Representatives	45,084	6,141		15,221	9,080	Short-term OJT	HS Diploma or Equivalent
41-4012	Sales Reps, Wholesale & Manufacturing, Except Technical & Scientific Products	26,457	2,898		15,326	12,428	Moderate-term OJT	HS Diploma or Equivalent
11-1021	General & Operations Managers	33,191	3,588		18,053	14,465	None	Bachelor's Degree
13-1198	Project Management Specialists & Business Operations Specialists, All Other	52,935	4,660		19,354	14,694	None	Bachelor's Degree

Source: EMSI Burning Glass

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.

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)

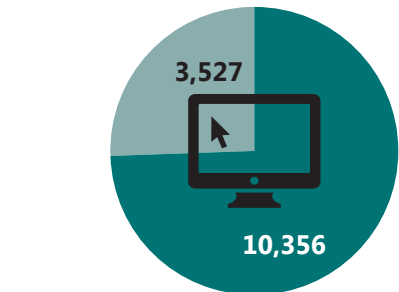


Darker Color

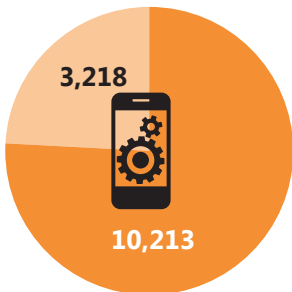
Unique Job Postings (Jan 2021-Dec 2021)



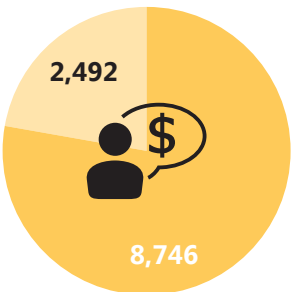
Lighter Color



Computer Occupations, All Other



Software Developers & Software Quality Assurance Analyst



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



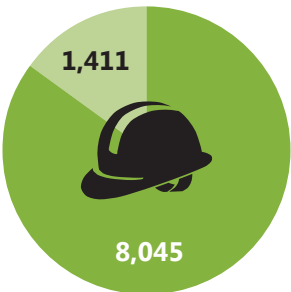
Retail Salesperson



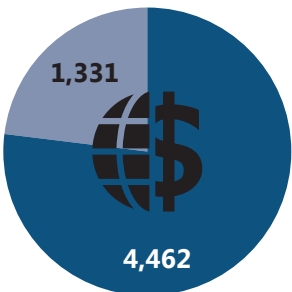
Personal Service Managers, All Other; Entertainment & Recreation Managers, Except Gambling; & Managers, All Other



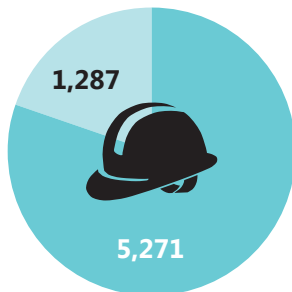
First-Line Supervisors of Retail Sales Workers



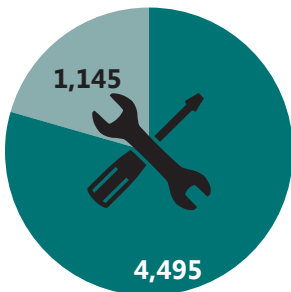
Laborers & Freight, Stock, & Material Movers, Hand



Sales Managers



Production Workers, All Other



Maintenance & Repair Workers, General

Source: EMSI Burning Glass

MANUFACTURING

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.

Companies

- 1 Ball Aerospace
- 2 Raytheon Technologies
- 3 King Soopers
- 4 Arrow Electronics
- 5 Jabil

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 Indeed.com
- 3 Simplyhired.com
- 4 Recruiternetworks.com
- 5 Disabledperson.com

Source: EMSI Burning Glass

Click on the certification name to learn more about it.

Certifications

- 1 Security Clearance
- 2 Top Secret-Sensitive Compartmented Information (TS/SCI Clearance)
- 3 Master of Business Administration (MBA)
- 4 Commercial Driver's License (CDL)
- 5 Bachelor of Science in Business

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

JOB FAMILY

- 1 Production
- 2 Architecture & Engineering
- 3 Transportation & Material Moving
- 4 Business & Financial Operations
- 5 Office & Administrative Support

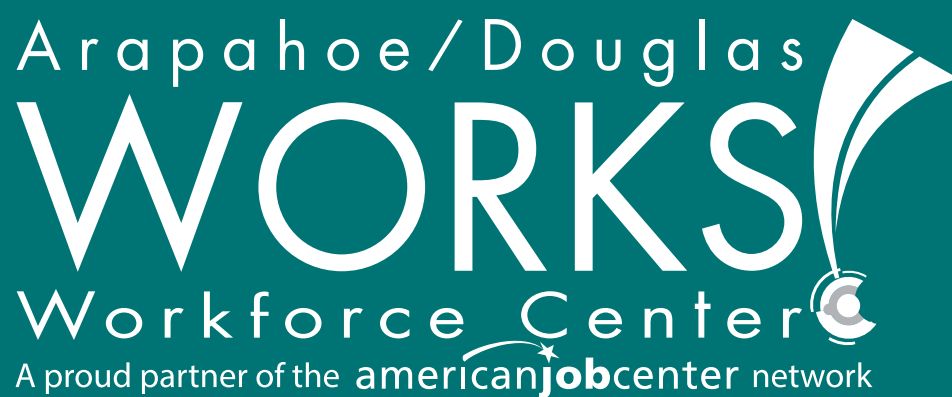
MANUFACTURING

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	Auditing	5,182	8.1%	5,384	4.3%
2	Warehousing	4,876	7.7%	2,927	2.3%
3	Packaging & Labeling	4,433	7.0%	0	0.0%
4	Agile Methodology	4,425	6.9%	3,909	3.1%
5	Merchandising	4,392	6.9%	3,084	2.5%
6	New Product Development	4,390	6.9%	11,178	8.9%
7	Equities	4,332	6.8%	368	0.3%
8	Market Data	4,258	6.7%	0	0.0%
9	Selling Techniques	3,905	6.1%	3,807	3.0%
10	Process Improvement	3,797	6.0%	11,892	9.5%
11	Business Strategies	3,769	5.9%	3,573	2.8%
12	Supply Chain	3,721	5.8%	4,493	3.6%
13	Finance	3,718	5.8%	4,703	3.7%
14	Customer Experience	3,623	5.7%	1,620	1.3%
15	Automation	3,587	5.6%	4,658	3.7%
16	Accounting	3,497	5.5%	5,465	4.3%
17	Systems Engineering	3,286	5.2%	9,307	7.4%
18	Software Development	3,222	5.1%	6,421	5.1%
19	Computer Science	3,220	5.1%	335	0.3%
20	Forecasting	3,100	4.9%	0	0.0%





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