2022

Architecture & Engineering
INDUSTRY PROFILE

for Arapahoe & Douglas Counties
Colorado WIOA Central Planning Region
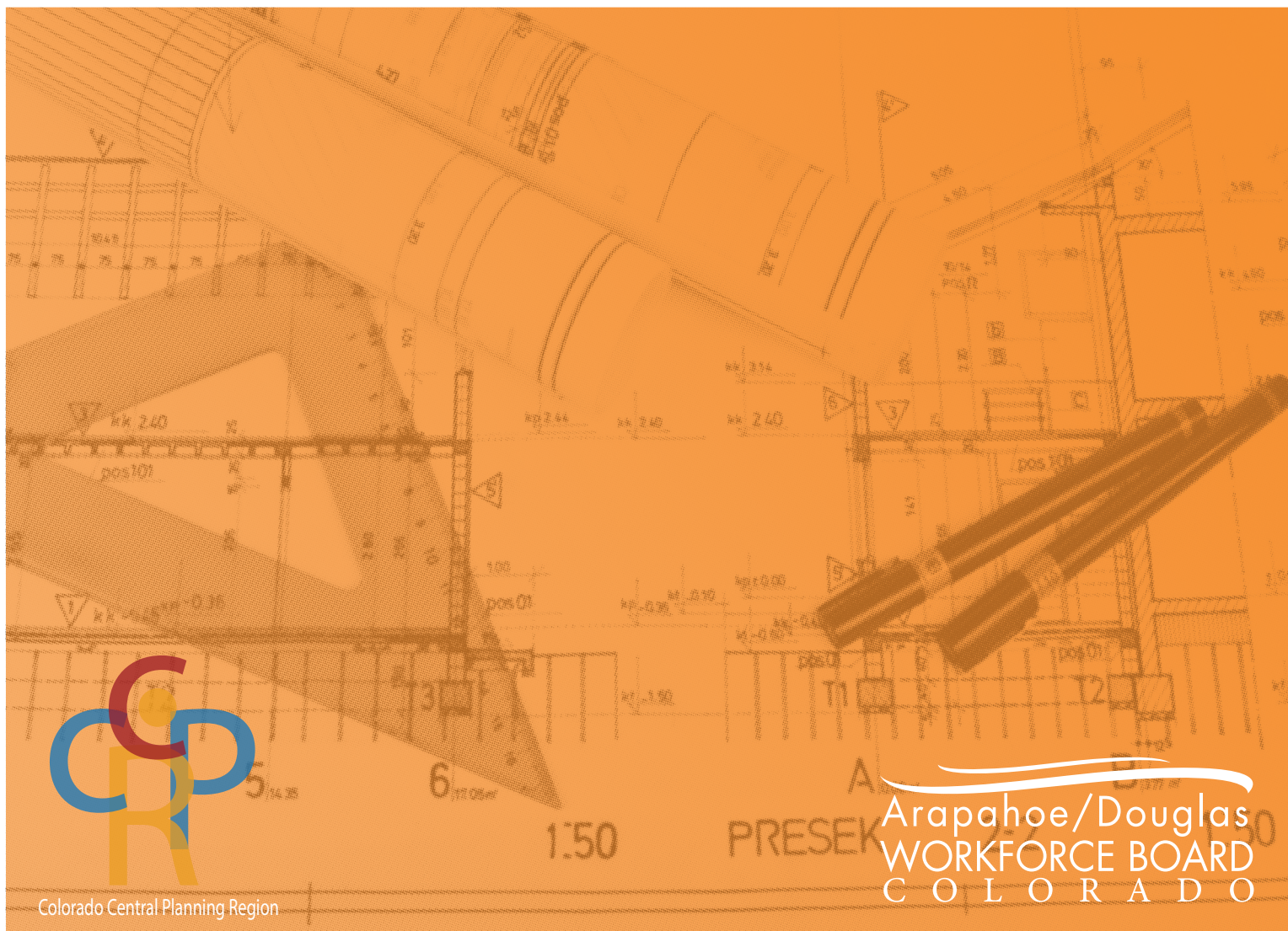
Colorado Central Planning Region

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.
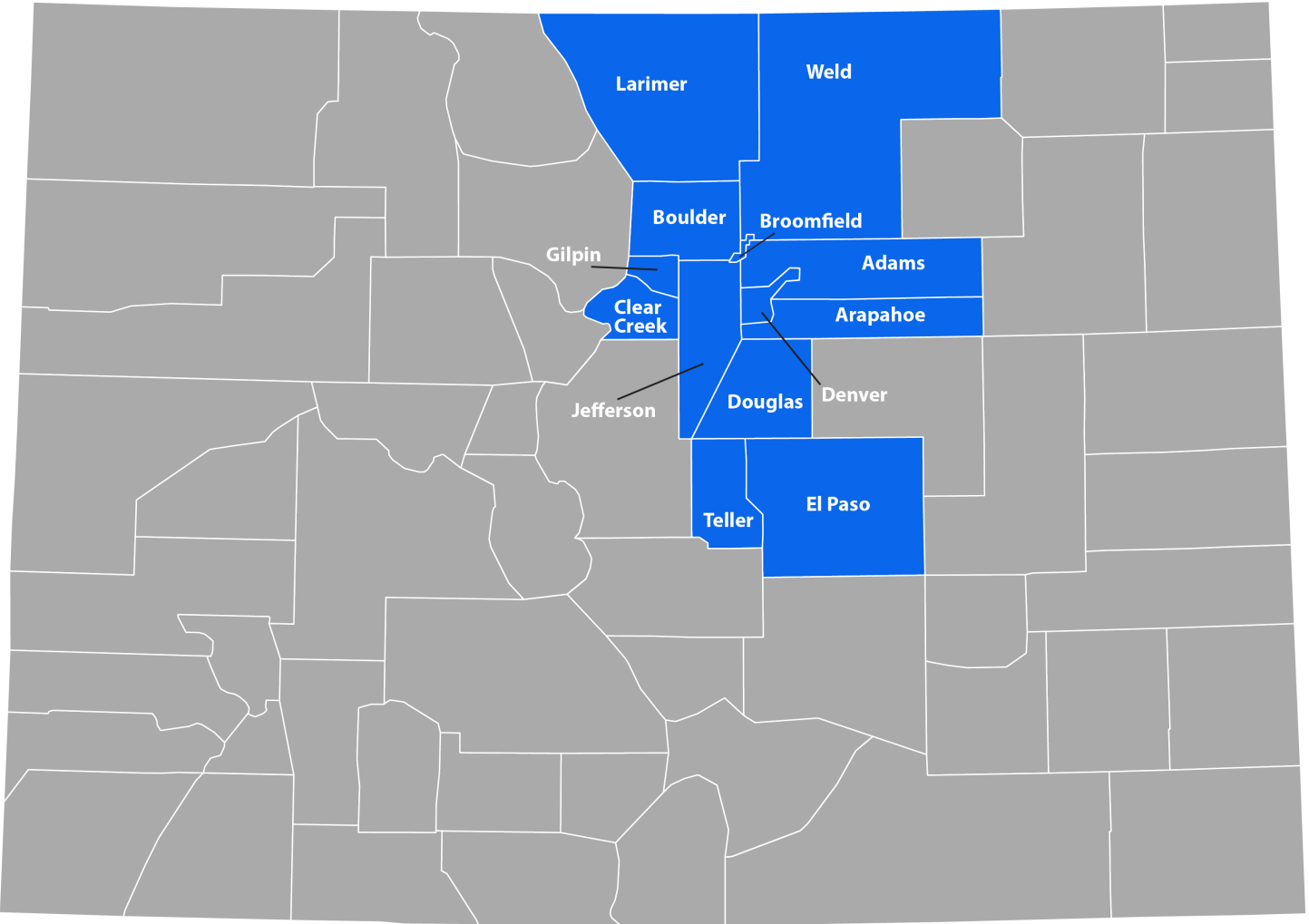
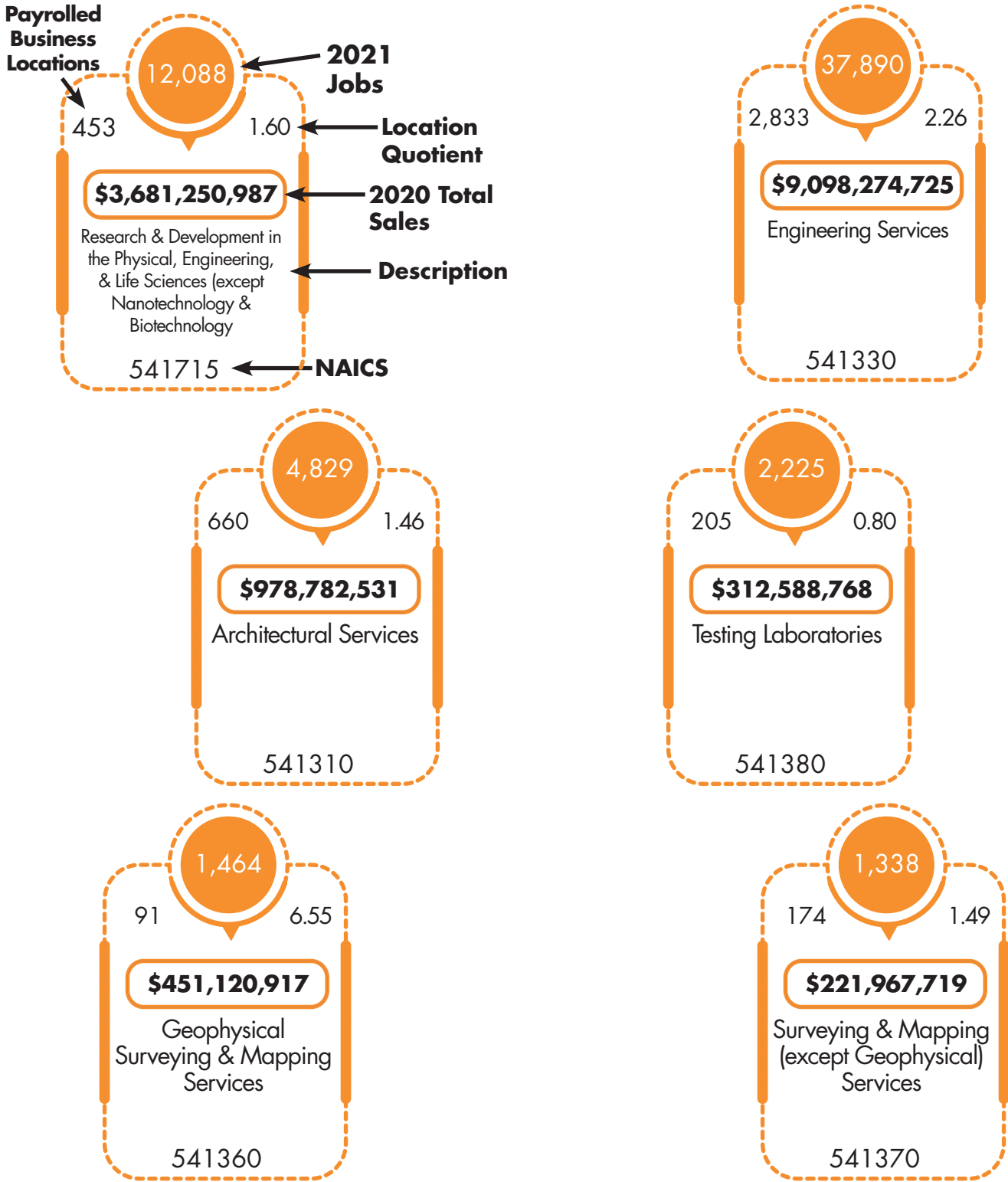The Architecture & Engineering Sector employs 50,350 people in 4,461 payrolled business locations along Colorado's Urban Front Range. In 2021, the sector had $11.5 billion in sales, and contributed $6.9 billion to the region's Gross Regional Product. The region's geographic location and extensive infrastructure 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**

37,890

2,833 — 2.26

$9,098,274,725

Engineering Services

541330

4,829

660 — 1.46

$978,782,531

Architectural Services

541310

2,225

205 — 0.80

$312,588,768

Testing Laboratories

541380

1,464

91 — 6.55

$451,120,917

Geophysical Surveying & Mapping Services

541360

1,338

174 — 1.49

$221,967,719

Surveying & Mapping (except Geophysical) Services

541370

1,254

203 — 1.55

$210,525,301

Landscape Architectural Services

541320

824

202 — 1.49

$124,727,529

Building Inspection Services

541350

526

93 — 1.79

$79,768,974

Drafting Services

541340

Source: EMSI Burning Glass

TOTALS
2021 Jobs - 50,350
Payrolled Business Locations - 4,461
Location Quotient - 2.19
Total Sales - $11,477,756,463

EMPLOYMENT CONCENTRATION MAP

2021 Jobs

- 6,155
- 2,884 to 6,154
- 1,177 to 2,883
- 556 to 1,176
- 170 to 555
- 0 to 169

Source: EMSI Burning Glass

EMPLOYMENT CONCENTRATION

Overall, employment in the sector is more concentrated at 2.19 times the national average. The heat map to the left shows job concentrations in the sector along the Urban Front Range.

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	10,294	$113,974	$15,482
Denver	10,191	$100,634	$13,499
El Paso	7,950	$107,059	$14,464
Jefferson	7,231	$97,977	$12,800
Boulder	5,030	$101,381	$13,225
Douglas	3,065	$116,038	$15,337
Larimer	2,734	$101,405	$13,188
Adams	2,392	$120,772	$16,118
Weld	773	$71,457	$8,227
Broomfield	597	$114,549	$14,917
Teller	71	$57,995	$4,382
Clear Creek	15	$80,450	$4,905
Gilpin	<10	Insf. Data	Insf. Data
TOTALS	**50,343**	**$98,641**	**$12,212**

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:
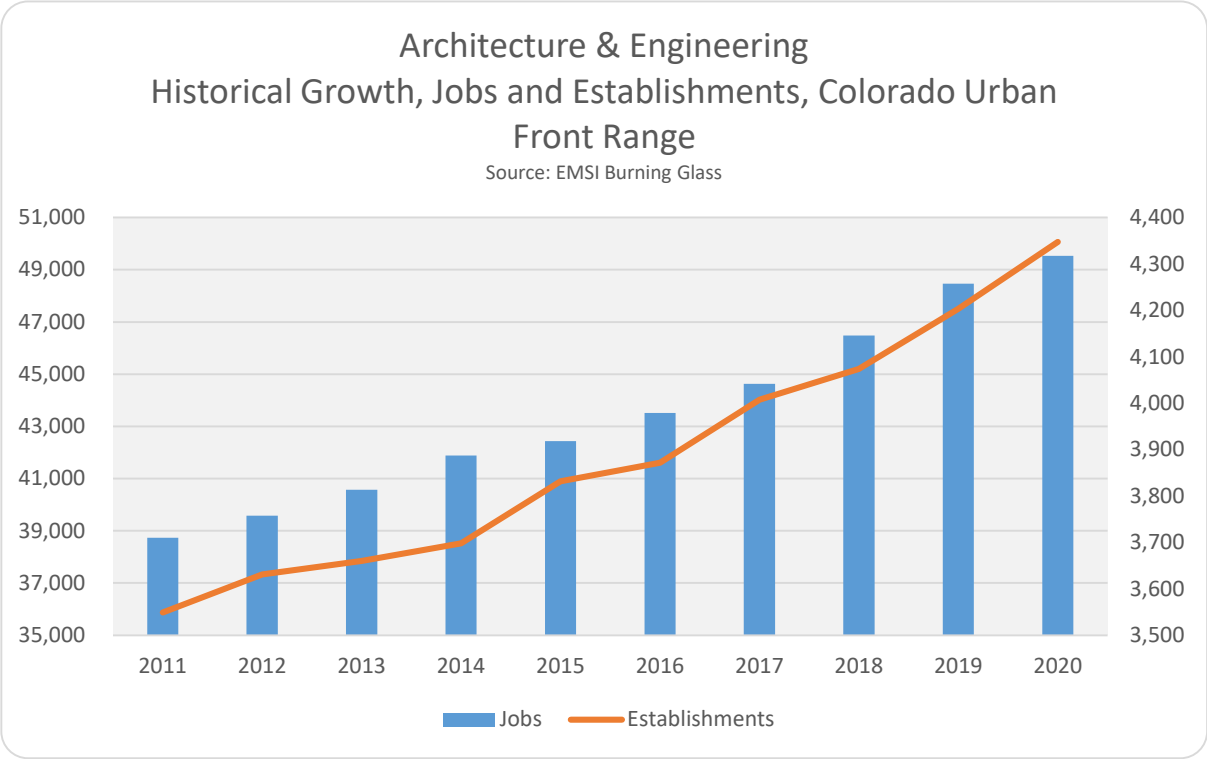
- Architecture & Engineering
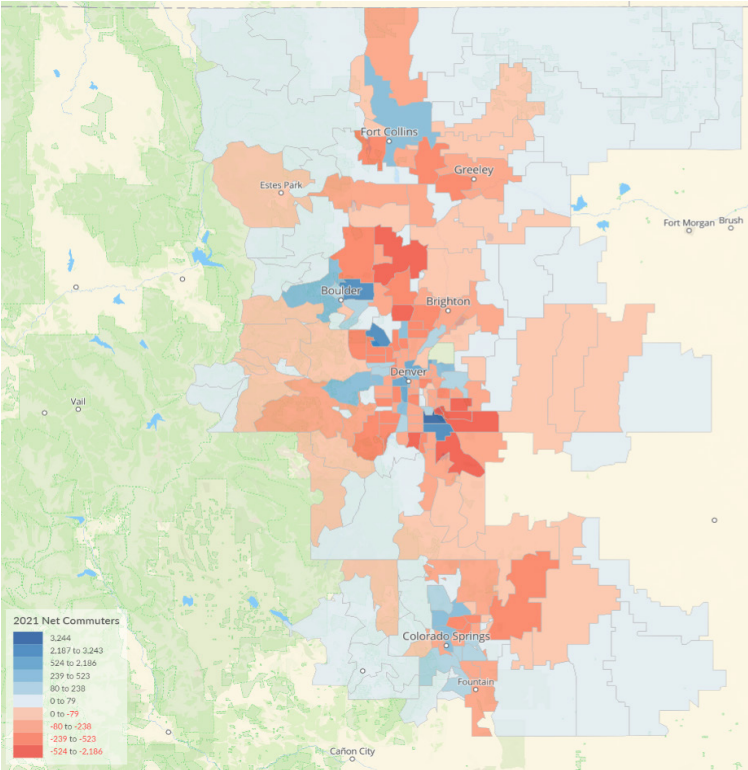
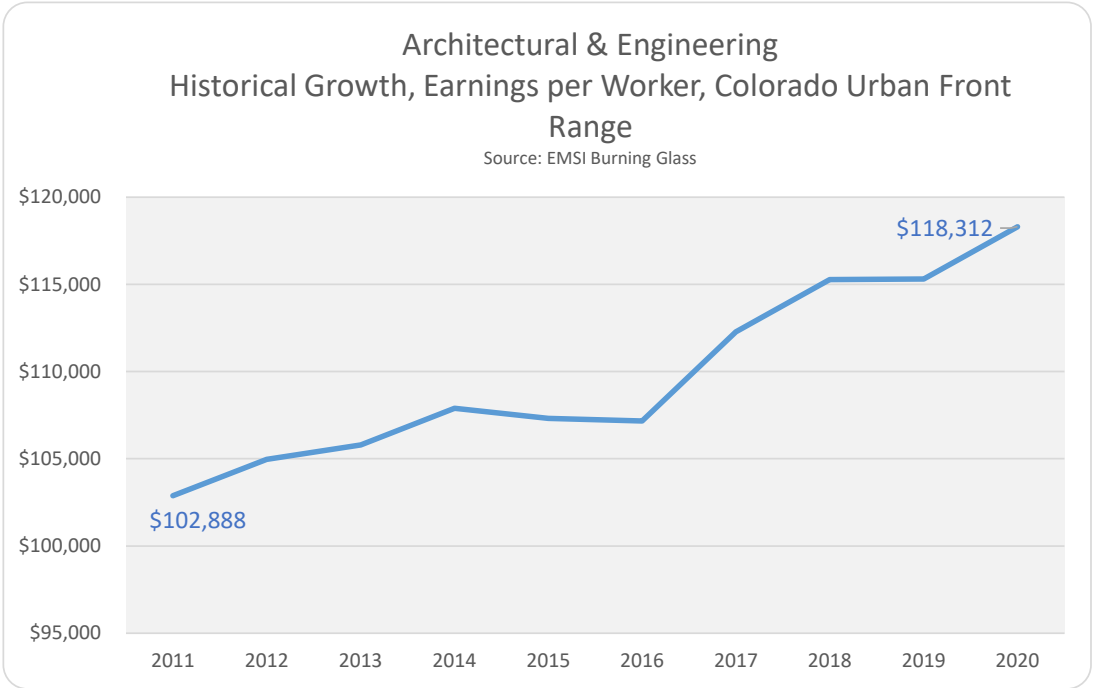| County	Net Commuters	Resident Workers	Jobs
Denver	3,532	9,345	12,877
Arapahoe	2,452	8,008	10,460
Boulder	1,910	6,959	8,869
Clear Creek	(11)	61	51
Larimer	(19)	5,073	5,054
Gilpin	(31)	49	18
Teller	(160)	251	91
Jefferson	(408)	10,195	9,787
Broomfield	(506)	1,804	1,298
El Paso	(618)	8,242	7,624
Adams	(1,927)	5,968	4,041
Weld	(2,448)	4,391	1,943
Douglas	(2,535)	5,705	3,170

Source: EMSI Burning Glass

HISTORICAL TRENDS & GROWTH

- Over the last decade, employment in the Architecture & Engineering Sector grew by 10,799 jobs, an annual growth rate of 2.77%.
- The number of establishments grew annually by 2.3% over the same time period, moving from 3,549 in 2011 to 4,348 in 2020.
- Average worker earnings in the sector, which includes wages, salaries, and compensation, grew from $102,888 in 2011 to $118,312 in 2020, an annual growth rate of 1.6%.

Historical Trends

Architecture & Engineering
Historical Growth, Jobs and Establishments, Colorado Urban Front Range
Source: EMSI Burning Glass

Historical Growth

Architectural & Engineering
Historical Growth, Earnings per Worker, Colorado Urban Front Range
Source: EMSI Burning Glass

PROJECTED GROWTH

The Architecture & Engineering Sector is expected to grow at an annual rate of 2.0%, with the number of jobs increasing to 54,441 by 2025. The Urban Front Range continues to be a national hub in several sector industries with employment concentration in the sector as a whole at 219% (location quotient converted to %) of the national average.

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
541310	Architectural Services	4,829	5,211	382	1.46	660
541320	Landscape Architectural Services	1,254	1,377	123	1.55	203
541330	Engineering Services	37,890	40,925	3,035	2.26	2,833
541340	Drafting Services	526	564	37	1.79	93
541350	Building Inspection Services	824	981	157	1.49	202
541360	Geophysical Surveying & Mapping Services	1,464	1,564	100	6.55	91
541370	Surveying & Mapping (except Geophysical) Services	1,338	1,422	85	1.49	174
541380	Testing Laboratories	2,225	2,398	173	0.80	205
	TOTALS	**50,350**	**54,441**	**4,091**	**2.19**	**4,461**

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 $80,256. The line graph below shows the median wage from job postings by month over a three-year period.

Salary Range of Unique Job Postings
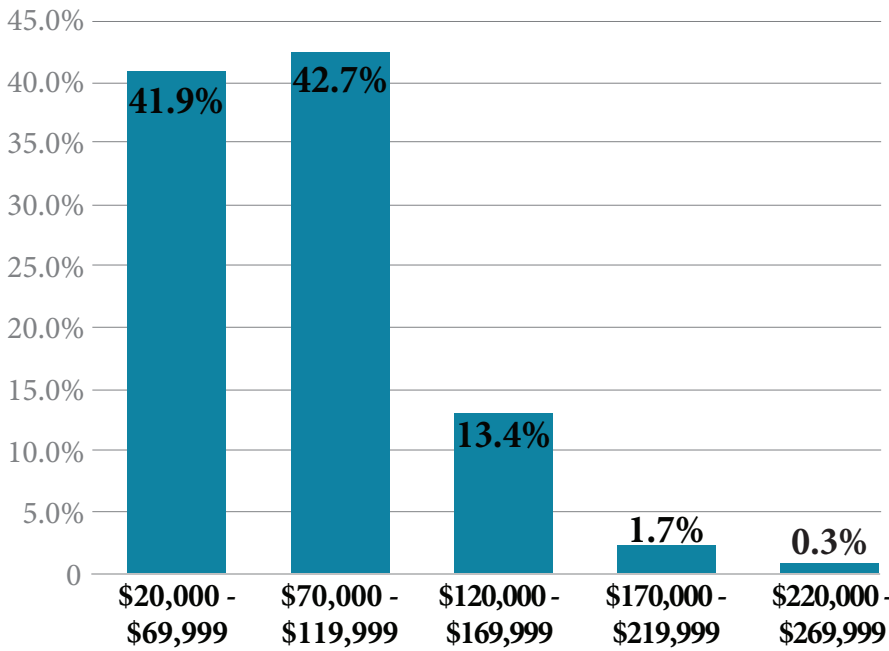
Advertised Wage Trends
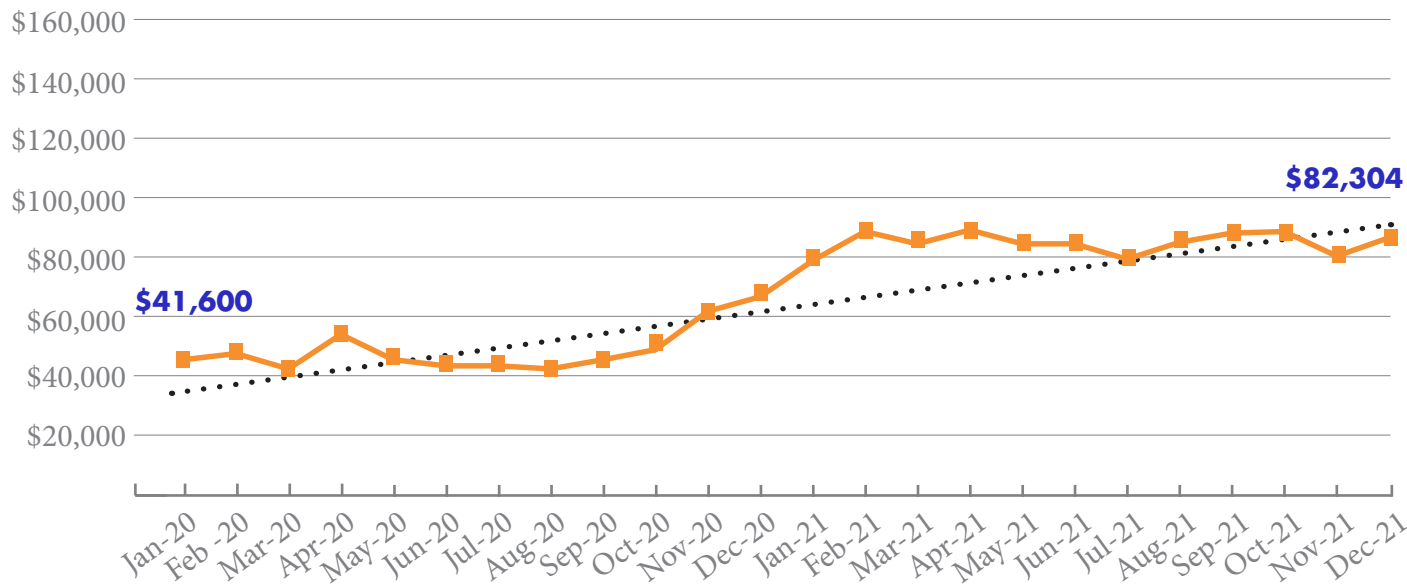
COMPETITIVE WAGE ANALYSIS

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.

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	705	1.4%	32,731	3,590	$71.32	$26.57	$39.11	$60.37	$93.63	$132.71
11-9041	Architectural & Engineering Managers	1,300	2.6%	3,288	306	$85.52	$58.28	$68.06	$80.31	$97.34	$141.23
13-1198	Project Management Specialists & Business Operations Specialists, All Other	2,626	5.2%	51,871	4,714	$43.94	$22.65	$29.41	$40.16	$54.02	$69.13
13-2011	Accountants & Auditors	641	1.3%	35,865	3,885	$41.50	$22.67	$28.06	$37.08	$50.48	$65.31
15-1256	Software Developers & Software Quality Assurance Analysts & Testers	1,762	3.5%	50,056	5,808	$54.39	$32.71	$40.77	$53.14	$66.32	$79.67
17-1011	Architects, Except Landscape & Naval	3,444	6.8%	3,849	380	$40.04	$21.01	$26.21	$35.59	$48.16	$56.70
17-1012	Landscape Architects	772	1.5%	1,072	95	$37.58	$23.55	$28.55	$36.70	$44.96	$51.09
17-1022	Surveyors	1,115	2.2%	1,359	144	$33.74	$20.54	$24.92	$31.06	$39.11	$51.59
17-2011	Aerospace Engineers	609	1.2%	2,126	175	$60.89	$34.27	$43.44	$59.31	$77.09	$92.32
17-2051	Civil Engineers	7,347	14.6%	10,808	1,028	$47.90	$28.16	$34.07	$43.53	$57.70	$73.43
17-2071	Electrical Engineers	1,206	2.4%	3,491	323	$49.64	$29.10	$37.04	$47.24	$60.31	$74.33
17-2072	Electronics Engineers, Except Computer	697	1.4%	6,213	485	$57.16	$35.41	$43.32	$55.43	$70.31	$82.60
17-2141	Mechanical Engineers	1,820	3.6%	5,434	435	$50.03	$29.12	$35.15	$45.24	$58.06	$78.02
17-2199	Engineers, All Other	736	1.5%	3,028	258	$57.13	$28.90	$41.12	$54.73	$69.95	$85.67
17-3011	Architectural & Civil Drafters	1,980	3.9%	2,421	274	$30.99	$20.15	$23.80	$29.79	$37.27	$44.74
17-3022	Civil Engineering Technologists & Technicians	984	2.0%	1,595	185	$26.62	$15.73	$19.16	$25.46	$32.35	$39.16
17-3031	Surveying & Mapping Technicians	1,481	2.9%	2,054	293	$24.58	$14.38	$17.84	$23.12	$29.48	$36.46
43-6014	Secretaries & Administrative Assistants, Except Legal, Medical, & Executive	842	1.7%	32,354	3,760	$20.07	$12.90	$15.79	$19.35	$23.54	$28.00
43-9061	Office Clerks, General	638	1.3%	36,435	4,848	$21.86	$12.63	$15.84	$20.53	$26.26	$32.52
47-4011	Construction & Building Inspectors	1,451	2.9%	3,058	408	$35.70	$21.98	$26.90	$34.37	$43.49	$50.23

Source: EMSI Burning Glass

TOP ONLINE PROFILES & REGIONAL BENCH STRENGTH

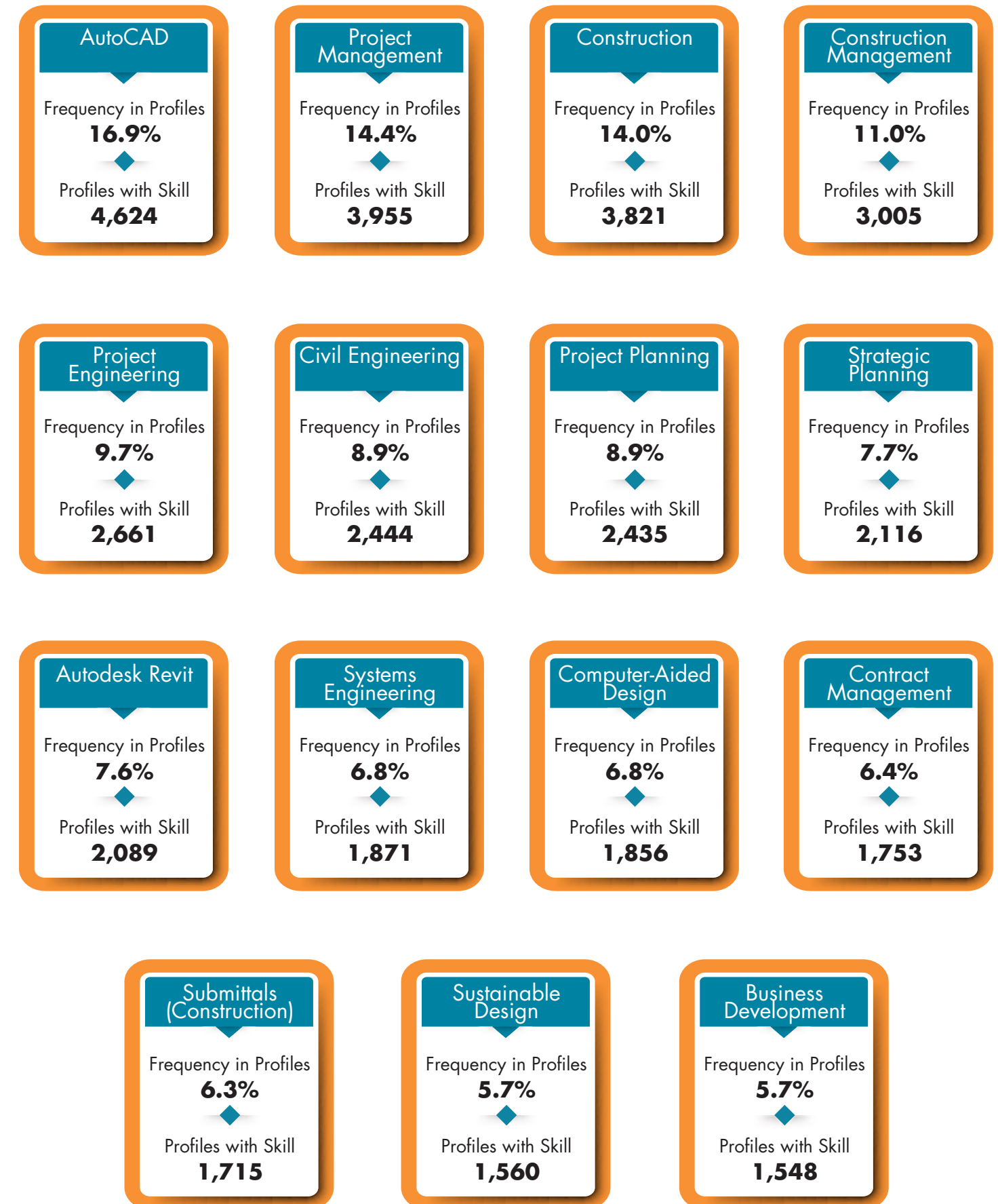EMSI Burning Glass has access to over 102 million online resumes throughout the United States, and offers analytical data on those profiles. This table shows online profiles of people working in the Sector that have been updated at some time in calendar 2021. While not all of these people may be presently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

Occupation	Profiles	Percent
Personal Service Managers, All Other; Entertainment & Recreation Managers, Except Gambling; & Managers, All Other	1,865	6.8%
Civil Engineers	1,596	5.8%
Software Developers & Software Quality Assurance Analysts & Testers	1,133	4.1%
Chief Executives	1,098	4.0%
Mechanical Engineers	1,066	3.9%
Architectural & Engineering Managers	984	3.6%
Engineers, All Other	969	3.5%
Electrical Engineers	723	2.6%
Computer Occupations, All Other	719	2.6%
General & Operations Managers	580	2.1%
Architects, Except Landscape & Naval	574	2.1%
Network & Computer Systems Administrators	479	1.7%
First-Line Supervisors of Office & Administrative Support Workers	478	1.7%
Industrial Engineers	477	1.7%
Environmental Engineers	457	1.7%
Management Analysts	406	1.5%
Education Administrators, Kindergarten through Secondary	401	1.5%
Marketing Managers	389	1.4%
Construction Managers	365	1.3%
Computer User Support Specialists	365	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
AutoCAD	16.9%	4,624
Project Management	14.4%	3,955
Construction	14.0%	3,821
Construction Management	11.0%	3,005
Project Engineering	9.7%	2,661
Civil Engineering	8.9%	2,444
Project Planning	8.9%	2,435
Strategic Planning	7.7%	2,116
Autodesk Revit	7.6%	2,089
Systems Engineering	6.8%	1,871
Computer-Aided Design	6.8%	1,856
Contract Management	6.4%	1,753
Submittals (Construction)	6.3%	1,715
Sustainable Design	5.7%	1,560
Business Development	5.7%	1,548

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
Security Clearance
Profiles with Qualification
1,266

Qualification
LEED Accredited Professional (AP)
Profiles with Qualification
1,215

Qualification
Professional Engineer
Profiles with Qualification
939

Qualification
TS/SCI Clearance
Profiles with Qualification
496

Qualification
CompTIA Security+
Profiles with Qualification
465

Qualification
Engineer in Training
Profiles with Qualification
404

Qualification
Project Management Professional
Profiles with Qualification
397

Qualification
CompTIA Certification
Profiles with Qualification
348

Qualification
LEED Green Associate
Profiles with Qualification
135

Qualification
CISSP
Profiles with Qualification
131

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.
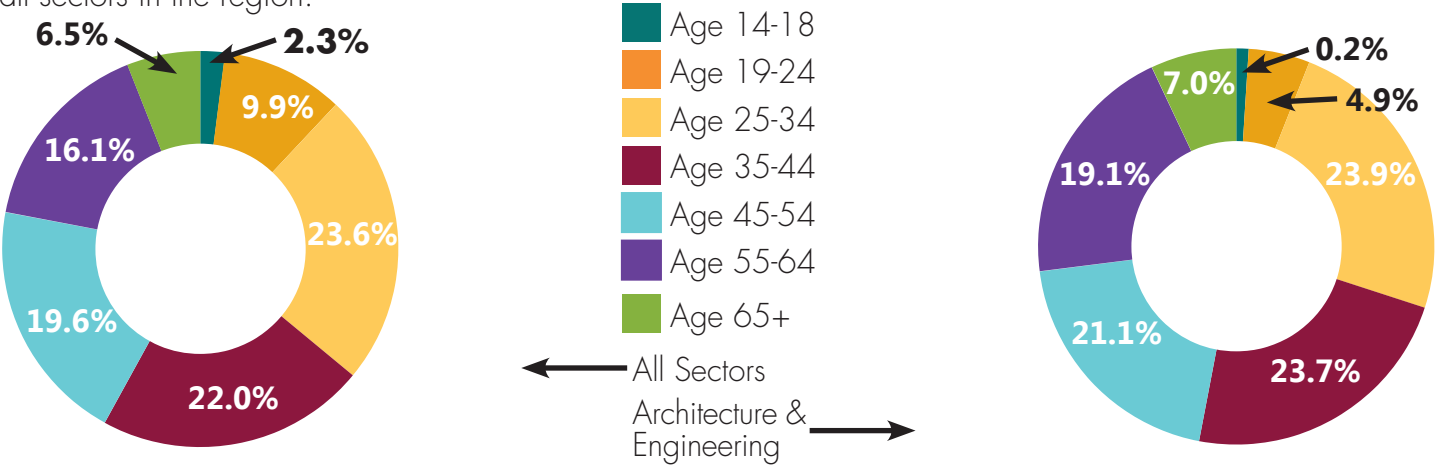
Source: EMSI Burning Glass

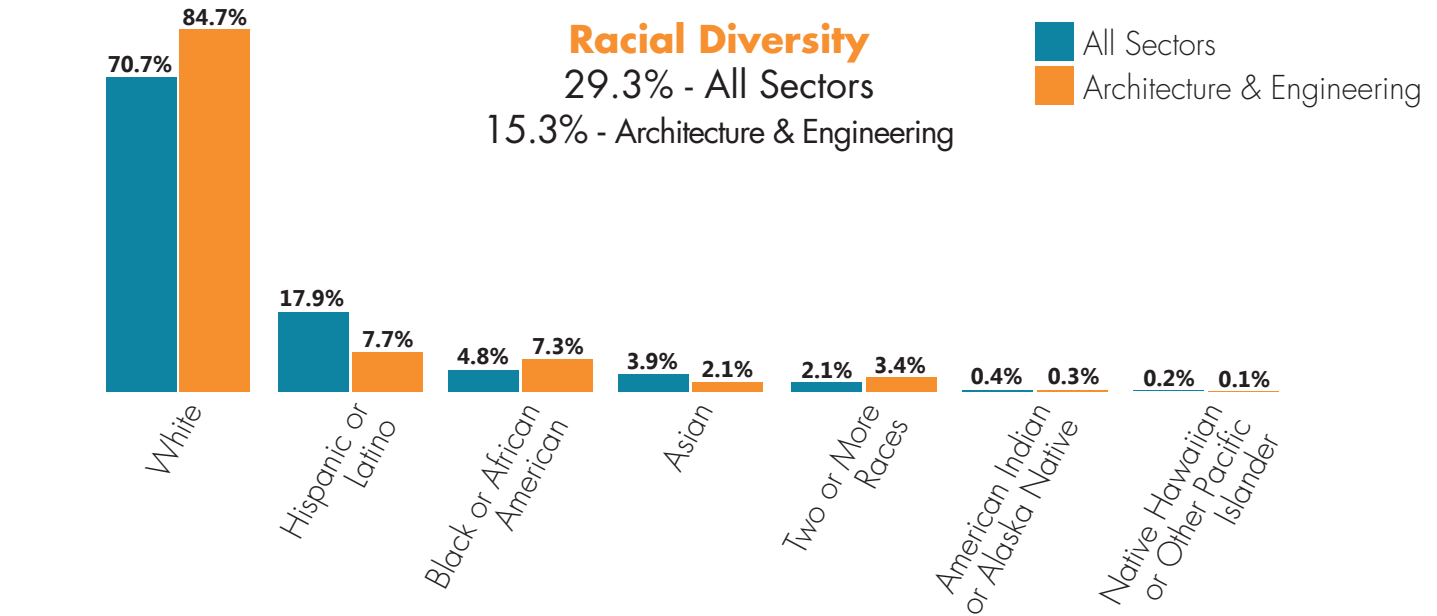| SOC Code	Description	Hires	Separations	Turnover Rate
11-1021	General & Operations Managers	18,471	17,435	53.3%
11-9041	Architectural & Engineering Managers	1,041	956	29.1%
13-1198	Project Management Specialists & Business Operations Specialists, All Other	21,235	22,836	44.0%
13-2011	Accountants & Auditors	18,909	19,505	54.4%
15-1256	Software Developers & Software Quality Assurance Analysts & Testers	21,359	17,224	34.4%
17-1011	Architects, Except Landscape & Naval	1,108	967	25.1%
17-1012	Landscape Architects	370	373	34.8%
17-1022	Surveyors	552	504	37.1%
17-2011	Aerospace Engineers	551	511	24.0%
17-2051	Civil Engineers	3,838	3,452	31.9%
17-2071	Electrical Engineers	1,034	889	25.5%
17-2072	Electronics Engineers, Except Computer	1,714	1,744	28.1%
17-2141	Mechanical Engineers	1,580	1,461	26.9%
17-2199	Engineers, All Other	829	801	26.5%
17-3011	Architectural & Civil Drafters	1,129	1,080	44.6%
17-3022	Civil Engineering Technologists & Technicians	643	635	39.8%
17-3031	Surveying & Mapping Technicians	1,163	1,101	53.6%
43-6014	Secretaries & Administrative Assistants, Except Legal, Medical, & Executive	21,196	24,499	75.7%
43-9061	Office Clerks, General	28,050	29,829	81.9%
47-4011	Construction & Building Inspectors	1,564	1,591	52.0%

DEMOGRAPHICS

Comparative Retirement Risk

The Sector has higher retirement risk, with 7.0% of its labor force aged 65 or older, compared with 6.5% for all sectors in the region.
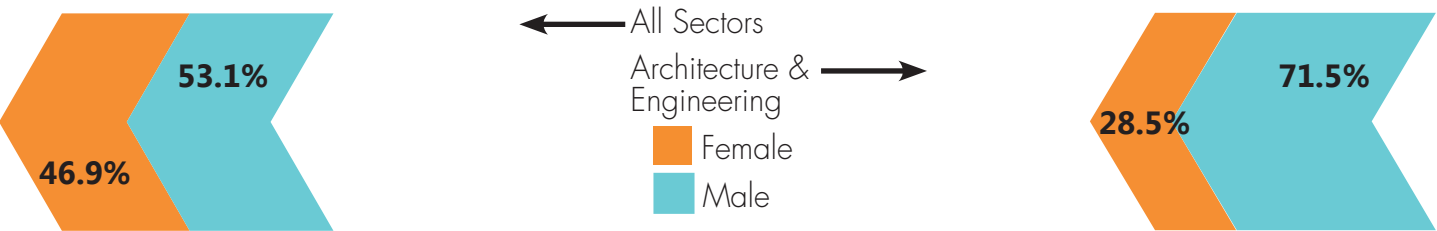
Source: EMSI Burning Glass

All Sectors

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

Architecture & Engineering

All Sectors: 2.3%, 9.9%, 23.6%, 22.0%, 19.6%, 16.1%, 6.5%

Architecture & Engineering: 0.2%, 4.9%, 23.9%, 23.7%, 21.1%, 19.1%, 7.0%

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
15.3% - Architecture & Engineering

- All Sectors
- Architecture & Engineering

Race	All Sectors	Architecture & Engineering
White	70.7%	84.7%
Hispanic or Latino	17.9%	7.7%
Black or African American	4.8%	7.3%
Asian	3.9%	2.1%
Two or More Races	2.1%	3.4%
American Indian or Alaska Native	0.4%	0.3%
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%

Architecture & Engineering: Female 28.5%, Male 71.5%

- Female
- Male

ARCHITECTURE & ENGINEERING

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	3,455	391	11.3%
13	Business & Financial Operations	5,234	980	18.7%
15	Computer & Mathematical	3,751	805	21.5%
17	Architecture & Engineering	26,653	2,432	9.1%
19	Life, Physical, & Social Science	2,579	296	11.5%
23	Legal	59	10	16.4%
27	Arts, Design, Entertainment, Sports, & Media	1,124	140	12.4%
29	Healthcare Practitioners & Technical	23	1	3.5%
31	Healthcare Support	<10	N/A	3.9%
33	Protective Service	23	1	3.6%
35	Food Preparation & Serving Related	0	0	1.2%
37	Building & Grounds Cleaning & Maintenance	243	7	2.9%
39	Personal Care & Service	<10	N/A	2.8%
41	Sales & Related	567	63	11.1%
43	Office & Administrative Support	2,844	304	10.7%
45	Farming, Fishing, & Forestry	0	0	2.9%
47	Construction & Extraction	2,082	80	3.8%
49	Installation, Maintenance, & Repair	401	16	4.0%
51	Production	1,083	36	3.3%
53	Transportation & Material Moving	220	4	1.9%

Remote Work Capability for Sector
Employed in Industry - 50,341
Estimated Remote Capability - 5,565
Percent of Occupation Family Posted Remote - 11.1%

ARCHITECTURE & ENGINEERING

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	0	125.9
47	Construction & Extraction	2,082	123.1
37	Building & Grounds Cleaning & Maintenance	243	122.5
51	Production	1,083	113.8
53	Transportation & Material Moving	220	110.9
45	Farming, Fishing, & Forestry	0	110.0
49	Installation, Maintenance, & Repair	401	108.9
33	Protective Service	23	98.7
43	Office & Administrative Support	2,844	98.1
39	Personal Care & Services	N/A	96.1
41	Sales & Related	567	95.0
31	Healthcare Support	N/A	95.0
27	Arts, Design, Entertainment, Sports, & Media	1,124	89.7
13	Business & Financial Operations	5,234	89.5
29	Healthcare Practitioners & Technical	23	88.3
17	Architecture & Engineering	26,653	87.0
11	Management	3,455	85.1
19	Life, Physical, & Social Science	2,579	84.5
23	Legal	59	84.0
15	Computer & Mathematical	3,751	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	705	1.4%	$60.37	Yes
11-9041	Architectural & Engineering Managers	1,300	2.6%	$80.31	No
13-1198	Project Management Specialists & Business Operations Specialists, All Other	2,626	5.2%	$40.16	No
13-2011	Accountants & Auditors	641	1.3%	$37.08	Yes
15-1256	Software Developers & Software Quality Assurance Analysts & Testers	1,762	3.5%	$53.14	Yes
17-1011	Architects, Except Landscape & Naval	3,444	6.8%	$35.59	No
17-1012	Landscape Architects	772	1.5%	$36.70	No
17-1022	Surveyors	1,115	2.2%	$31.06	No
17-2011	Aerospace Engineers	609	1.2%	$59.31	Yes
17-2051	Civil Engineers	7,347	14.6%	$43.53	No
17-2071	Electrical Engineers	1,206	2.4%	$47.24	No
17-2072	Electronics Engineers, Except Computer	697	1.4%	$55.43	No
17-2141	Mechanical Engineers	1,820	3.6%	$45.24	Yes
17-2199	Engineers, All Other	736	1.5%	$54.73	No
17-3011	Architectural & Civil Drafters	1,980	3.9%	$29.79	Yes
17-3022	Civil Engineering Technologists & Technicians	984	2.0%	$25.46	No
17-3031	Surveying & Mapping Technicians	1,481	2.9%	$23.12	Yes
43-6014	Secretaries & Administrative Assistants, Except Legal, Medical, & Executive	842	1.7%	$19.35	Yes
43-9061	Office Clerks, General	638	1.3%	$20.53	Yes
47-4011	Construction & Building Inspectors	1,451	2.9%	$34.37	Yes

Source: EMSI Burning Glass

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
43-9061	Office Clerks, General	36,435	4,848	449	(4,399)	Short-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
17-2051	Civil Engineers	10,808	1,028	699	(329)	None	Bachelor's Degree
17-1011	Architects, Except Landscape & Naval	3,849	380	310	(70)	Internship	Bachelor's Degree
17-1022	Surveyors	1,359	144	176	32	Internship	Bachelor's Degree
17-1012	Landscape Architects	1,072	95	193	98	Internship	Bachelor's Degree
47-4011	Construction & Building Inspectors	3,058	408	525	117	Moderate-term	HS Diploma or Equivalent
17-3031	Surveying & Mapping Technicians	2,054	293	595	302	Moderate-term	HS Diploma or Equivalent
17-3022	Civil Engineering Technologists & Technicians	1,595	185	680	495	None	Associate's Degree
17-2071	Electrical Engineers	3,491	323	836	513	None	Bachelor's Degree
17-2072	Electronics Engineers, Except Computer	6,213	485	1,204	719	None	Bachelor's Degree
17-3011	Architectural & Civil Drafters	2,421	274	1,025	751	None	Associate's Degree
17-2141	Mechanical Engineers	5,434	435	1,954	1,519	None	Bachelor's Degree
17-2011	Aerospace Engineers	2,126	175	2,452	2,277	None	Bachelor's Degree
17-2199	Engineers, All Other	3,028	258	3,908	3,650	None	Bachelor's Degree
11-9041	Architectural & Engineering Managers	3,288	306	5,358	5,052	None	Bachelor's Degree
13-2011	Accountants & Auditors	35,865	3,885	12,063	8,178	None	Bachelor's Degree
43-6014	Secretaries & Administrative Assistants, Except Legal, Medical, & Executive	32,354	3,760	15,797	12,037	Short-term	HS Diploma or Equivalent
11-1021	General and Operations Managers	32,731	3,590	18,053	14,463	None	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

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
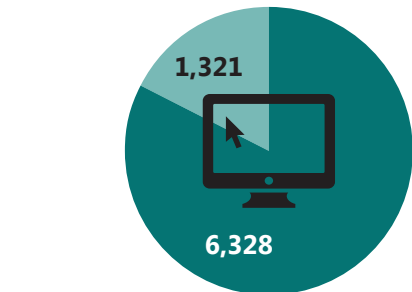
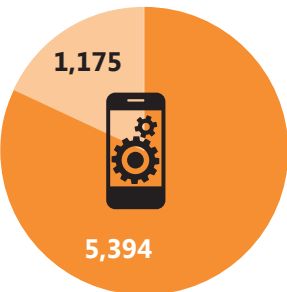Total Job Postings (Jan 2021-Dec 2021)

Darker Color

Unique Job Postings (Jan 2021-Dec 2021)
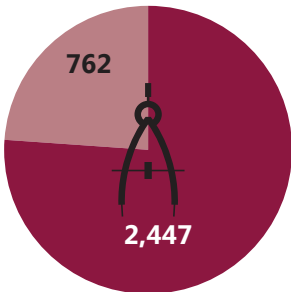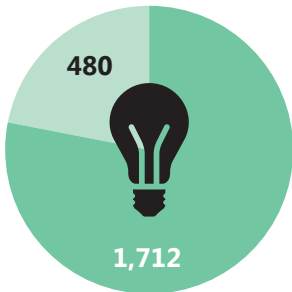
Lighter Color

1,321
6,328
Computer Occupations, All Other

1,175
5,394
Software Developers & Software Quality Assurance Analyst

870
3,515
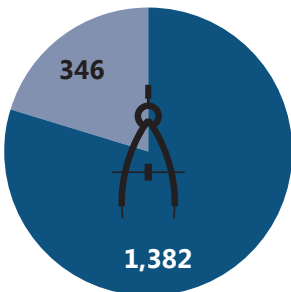**Personal Service Managers, All Other; Entertainment & Recreation Managers, Except Gambling; & Managers, All Other**
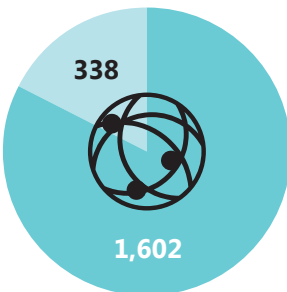
762
2,447
Civil Engineers

480
1,712
Electrical Engineers

476
8,741
Security Guards
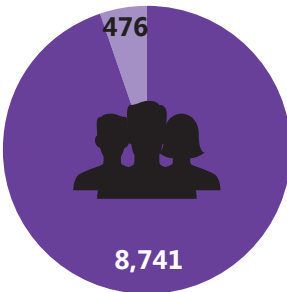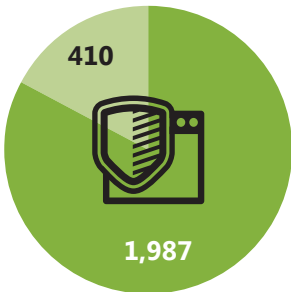
410
1,987
Information Security Analysts

346
1,382
Engineers, All Other

338
1,602
Network & Computer Systems Administrators
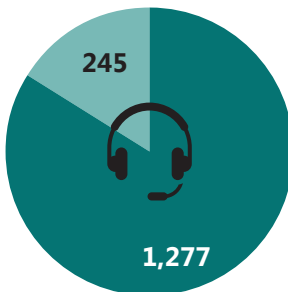
245
1,277
Computer User Support Specialists

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. Leidos
2. Jacobs Engineering
3. Securitas
4. SAIC
5. Parsons Brinckerhoff

Certifications

1. Top Secret-Sensitive Compartmented Information (TS/SCI Clearance)
2. Security Clearance
3. Secret Clearance
4. CompTIA Security+
5. Professional Engineer

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. Simplyhired.com
4. Recruiternetworks.com
5. Clearancejobs.com

JOB FAMILY
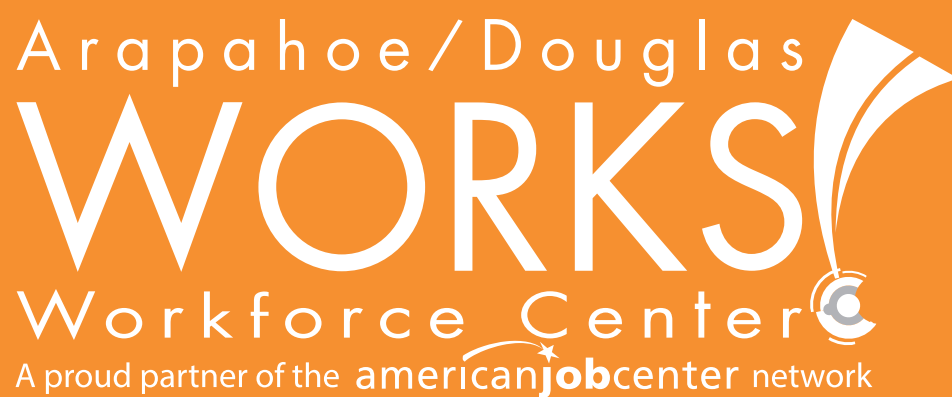
1. Management
2. Business & Financial Operations
3. Computer & Mathematical
4. Architecture & Engineering
5. Life, Physical, & Social Science

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	Systems Engineering	1,888	12.1%	1,871	6.8%
2	Construction	1,524	9.8%	3,821	14.0%
3	Agile Methodology	1,451	9.3%	560	2.0%
4	Project Management	1,358	8.7%	3,955	14.4%
5	AutoCAD	1,356	8.7%	4,624	16.9%
6	Business Development	1,217	7.8%	1,548	5.7%
7	Software Development	1,182	7.6%	893	3.3%
8	Cyber Security	1,107	7.1%	318	1.2%
9	Automation	1,097	7.0%	683	2.5%
10	Linux	1,006	6.4%	613	2.2%
11	Microsoft Mail	971	6.2%	771	2.8%
12	Python	949	6.1%	573	2.1%
13	Auditing	921	5.9%	886	3.2%
14	Software Engineering	900	5.8%	760	2.8%
15	Civil Engineering	896	5.7%	2,444	8.9%
16	Computer Science	871	5.6%	59	0.2%
17	Autodesk Revit	802	5.1%	2,089	7.6%
18	Construction Management	802	5.1%	3,005	11.0%
19	Operating Systems	765	4.9%	327	1.2%
20	Data Analysis	763	4.9%	1,533	5.6%

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