

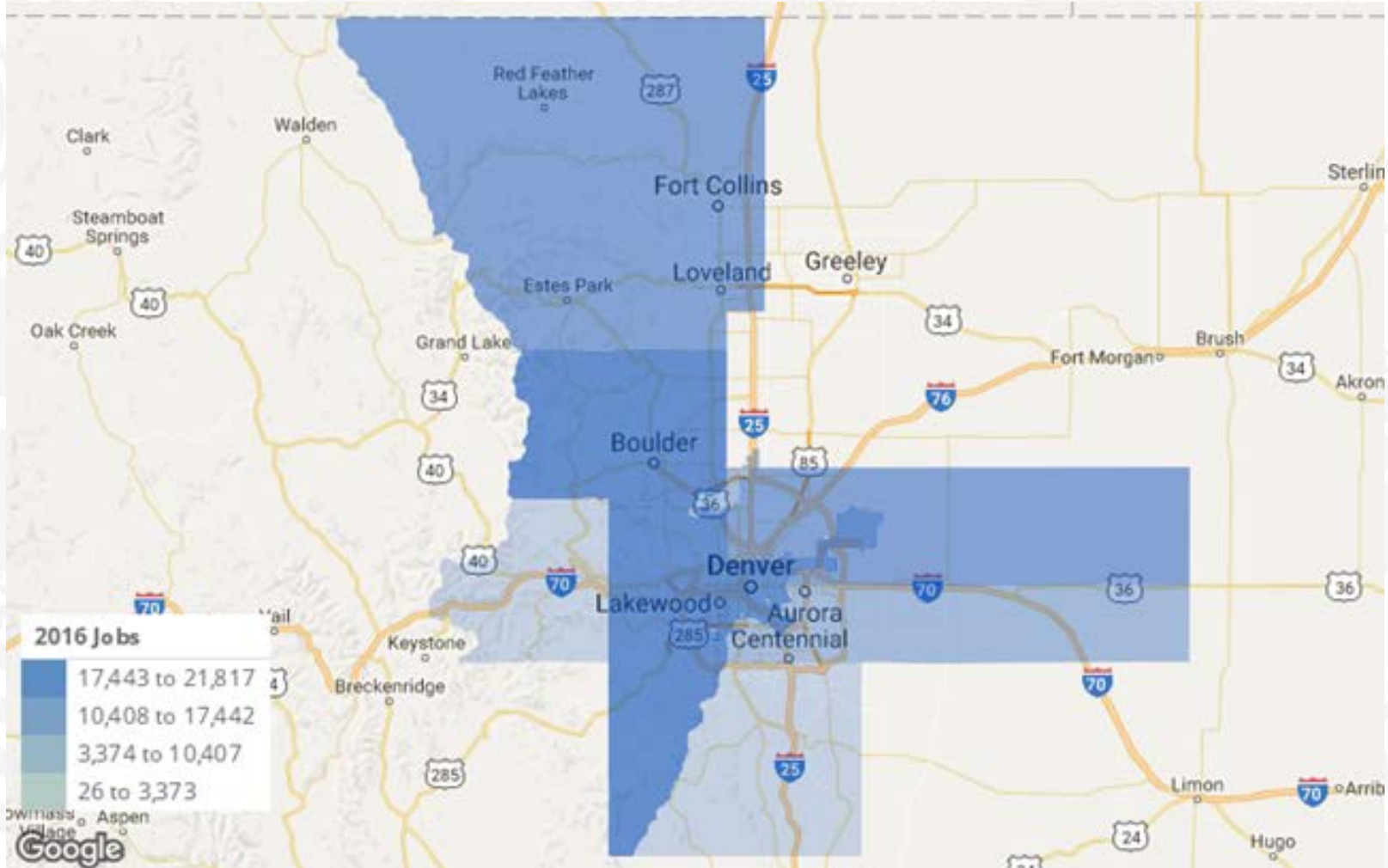
The logo for the Arapahoe/Douglas Workforce Board is centered in a white circle. It features a stylized blue wave above the text "Arapahoe/Douglas" in a serif font, with "WORKFORCE BOARD" in a bold, sans-serif font below it. The background of the slide is a dark blue with a repeating pattern of concentric circles and gear-like shapes.

Arapahoe/Douglas
WORKFORCE BOARD

Manufacturing

October 6, 2016

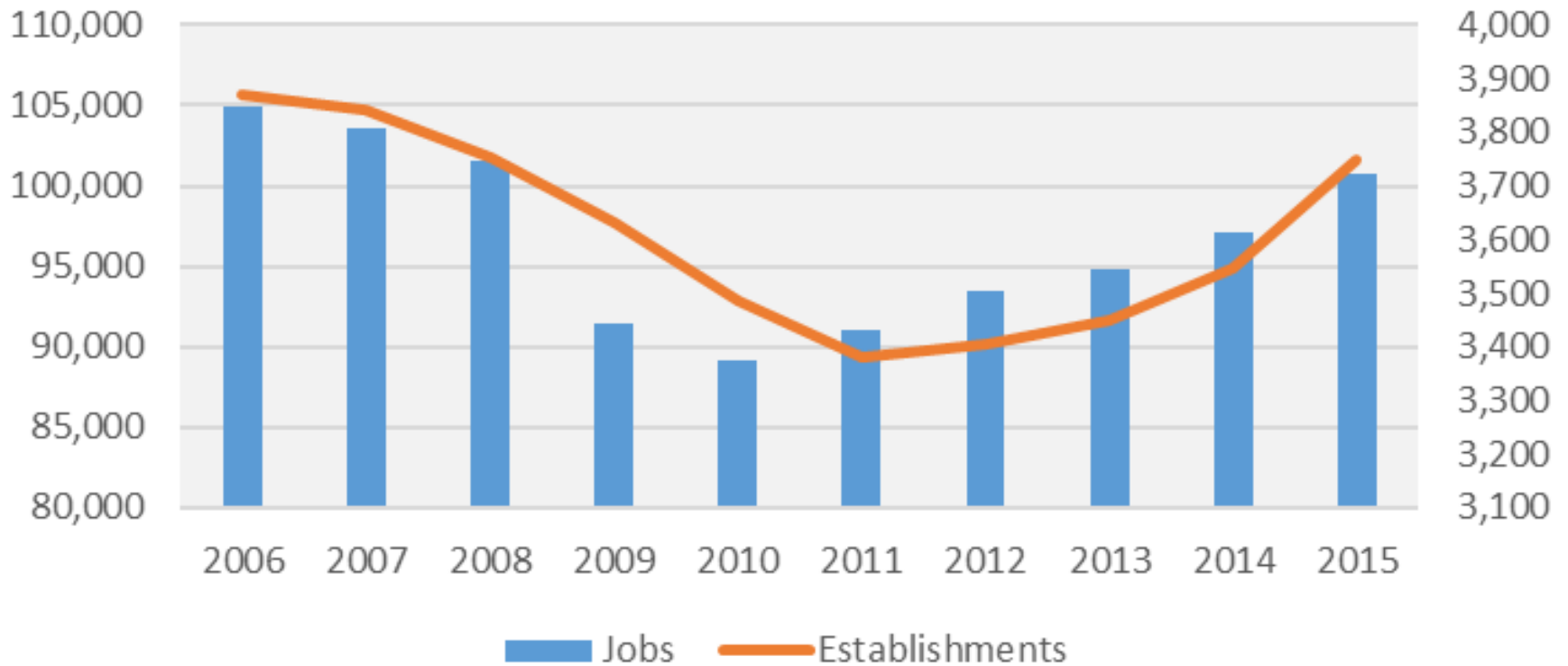
Regional Concentration, Manufacturing



Manufacturers in the Colorado Central Planning Region (metro Denver and northern Front Range) employ 104,084 people in 3,747 establishments.

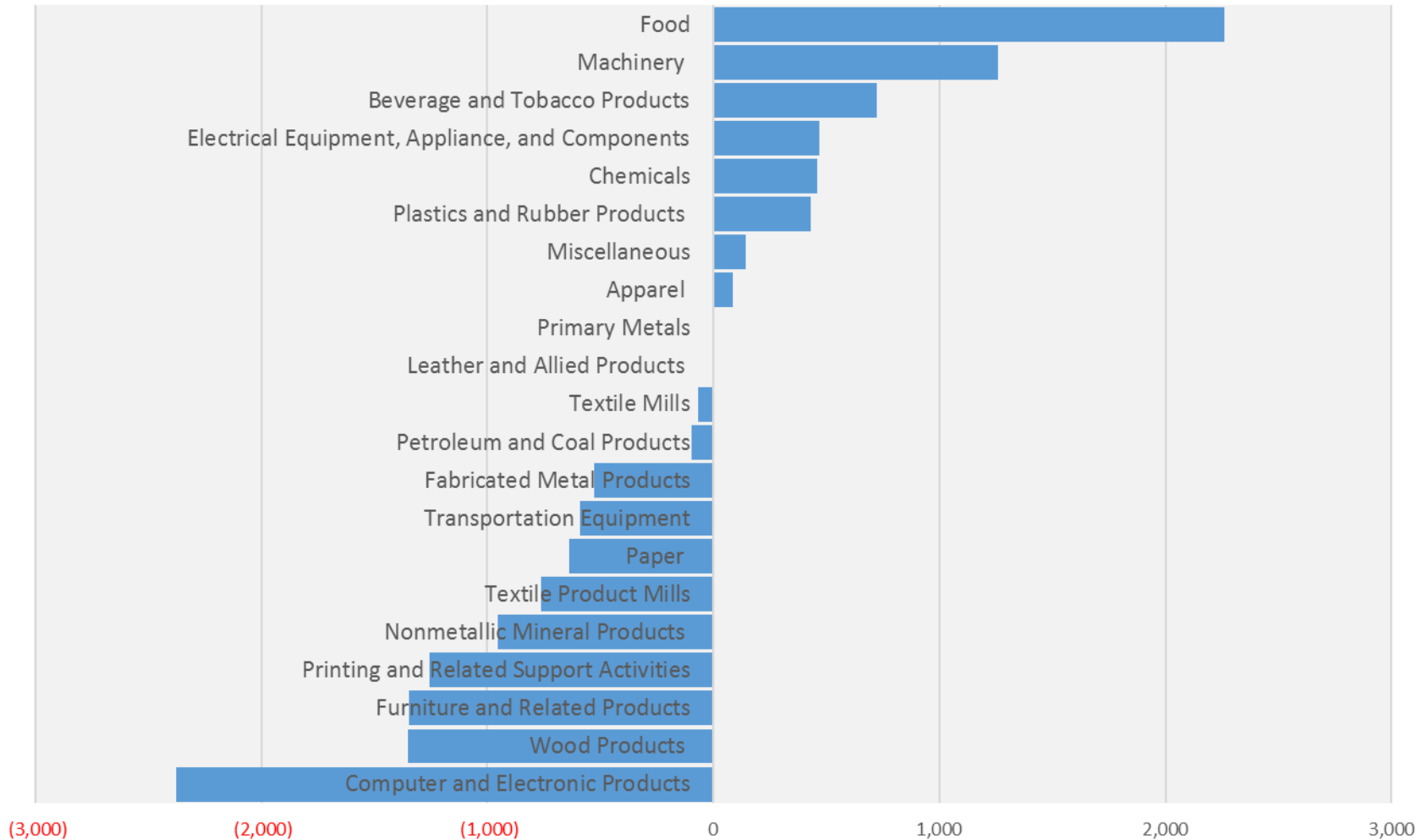
Historical Trends

Historical Trends, Industry, Colorado Central Planning Region



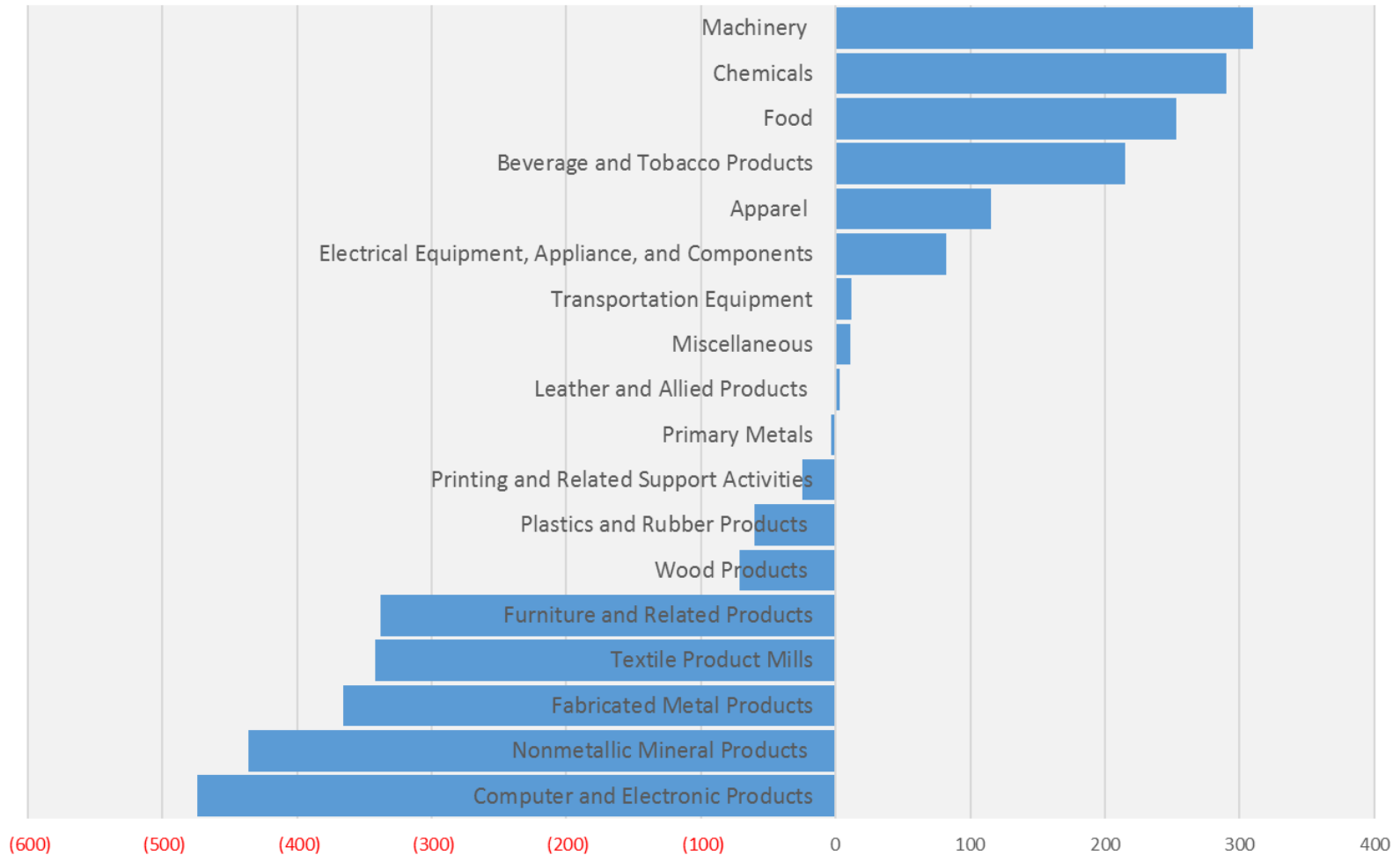
Job Change by Sector

Historical Employment Trends, Manufacturing,
Colorado Central Planning Region, 2006-2015



Arapahoe/Douglas Area

Historical Employment Trends, Manufacturing,
Arapahoe/Douglas Area, 2006-2015



Five Year Projections, Manufacturing

Regional Industry Growth Projections, Colorado Central Planning Region

NAICS Code	Description	2016 Jobs	2017 Jobs	2018 Jobs	2019 Jobs	2020 Jobs	2021 Jobs	Change	Annual Growth Rate	National Location Quotient	Payrolled Business Locations
333	Machinery Manufacturing	7,660	7,933	8,185	8,421	8,646	8,847	1,187	3.1%	0.58	221
311	Food Manufacturing	11,793	12,039	12,235	12,395	12,530	12,591	798	1.4%	0.62	406
339	Miscellaneous Manufacturing	8,858	8,946	9,027	9,103	9,176	9,241	383	0.9%	1.13	472
335	Electrical Equipment, Appliance, and Component Manufacturing	2,195	2,289	2,364	2,428	2,482	2,516	321	2.9%	0.46	72
326	Plastics and Rubber Products Manufacturing	4,781	4,852	4,911	4,962	5,005	5,033	252	1.1%	0.56	142
325	Chemical Manufacturing	5,121	5,180	5,230	5,275	5,315	5,349	228	0.9%	0.51	181
332	Fabricated Metal Product Manufacturing	8,663	8,671	8,701	8,746	8,800	8,879	216	0.5%	0.49	529
331	Primary Metal Manufacturing	708	726	743	760	776	791	83	2.3%	0.16	42
312	Beverage and Tobacco Product Manufacturing	6,649	6,678	6,697	6,707	6,713	6,703	54	0.2%	2.26	188
315	Apparel Manufacturing	919	928	935	939	942	948	29	0.6%	0.51	35
316	Leather and Allied Product Manufacturing	121	115	112	111	111	112	(9)	(1.5%)	0.32	11
313	Textile Mills	45	40	36	32	30	29	(16)	(7.0%)	0.03	8
327	Nonmetallic Mineral Product Manufacturing	5,367	5,327	5,306	5,298	5,300	5,330	(37)	(0.1%)	1.06	169
324	Petroleum and Coal Products Manufacturing	711	696	683	673	663	657	(54)	(1.5%)	0.51	15
321	Wood Product Manufacturing	2,160	2,108	2,075	2,056	2,047	2,058	(102)	(0.9%)	0.44	99
314	Textile Product Mills	1,062	1,003	960	927	903	899	(163)	(3.1%)	0.71	96
336	Transportation Equipment Manufacturing	8,722	8,678	8,632	8,586	8,539	8,495	(227)	(0.5%)	0.44	122
322	Paper Manufacturing	1,236	1,159	1,100	1,054	1,016	1,002	(234)	(3.8%)	0.27	44
337	Furniture and Related Product Manufacturing	4,518	4,362	4,244	4,152	4,079	4,061	(457)	(2.0%)	0.89	190
323	Printing and Related Support Activities	4,938	4,762	4,625	4,516	4,427	4,395	(543)	(2.2%)	0.87	374
334	Computer and Electronic Product	17,857	17,189	16,687	16,301	15,998	15,920	(1,937)	(2.2%)	1.39	331
	Totals	104,084	103,681	103,488	103,441	103,498	103,855	(586)	(0.1%)		3,747

Source: EMSI 2016.3 – QCEW Employees, Non-QCEW Employees & Self-Employed Class of Worker

Age Demographics

Industry Age Distribution (2016)		
Age Band	Number	Percent
14-18 Years	468	0.5%
19-24 Years	5,792	5.6%
25-34 Years	20,769	20.0%
35-44 Years	24,003	23.1%
45-54 Years	27,779	26.7%
55-64 Years	20,504	19.7%
65+ Years	4,769	4.6%

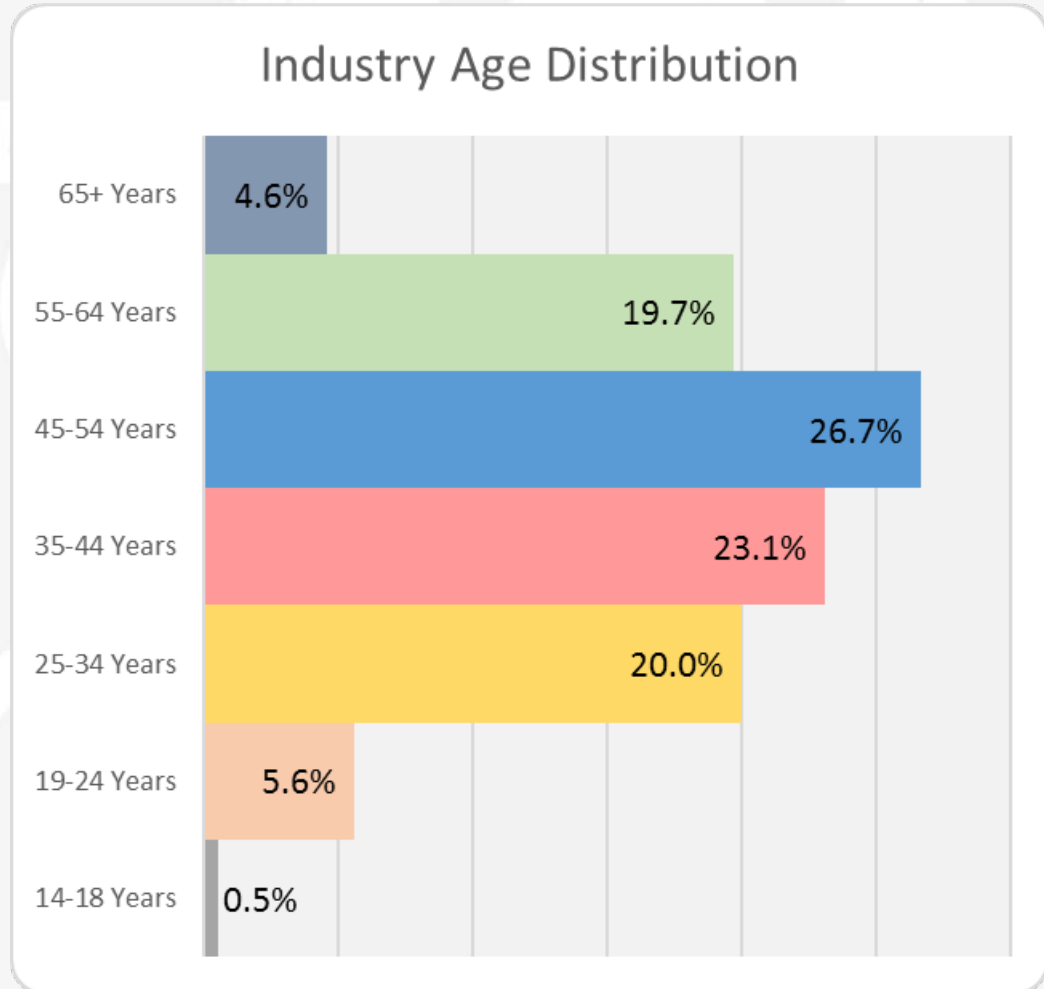
Source: EMSI 2016.3 QCEW, Non-QCEW & Self-Employed

Age Gap Analysis		
34 or under	27,029	26.1%
45 or older	53,052	51.0%
Age Gap	(26,023)	-24.9%

Source: EMSI 2016.3 QCEW, Non-QCEW & Self-Employed

Annual Change	
Entering Labor Force	1,802
Vacancies (Attrition + Growth)	2,792
Annual Surplus/Shortfall	(990)

Source: EMSI 2016.3 QCEW, Non-QCEW & Self-Employed



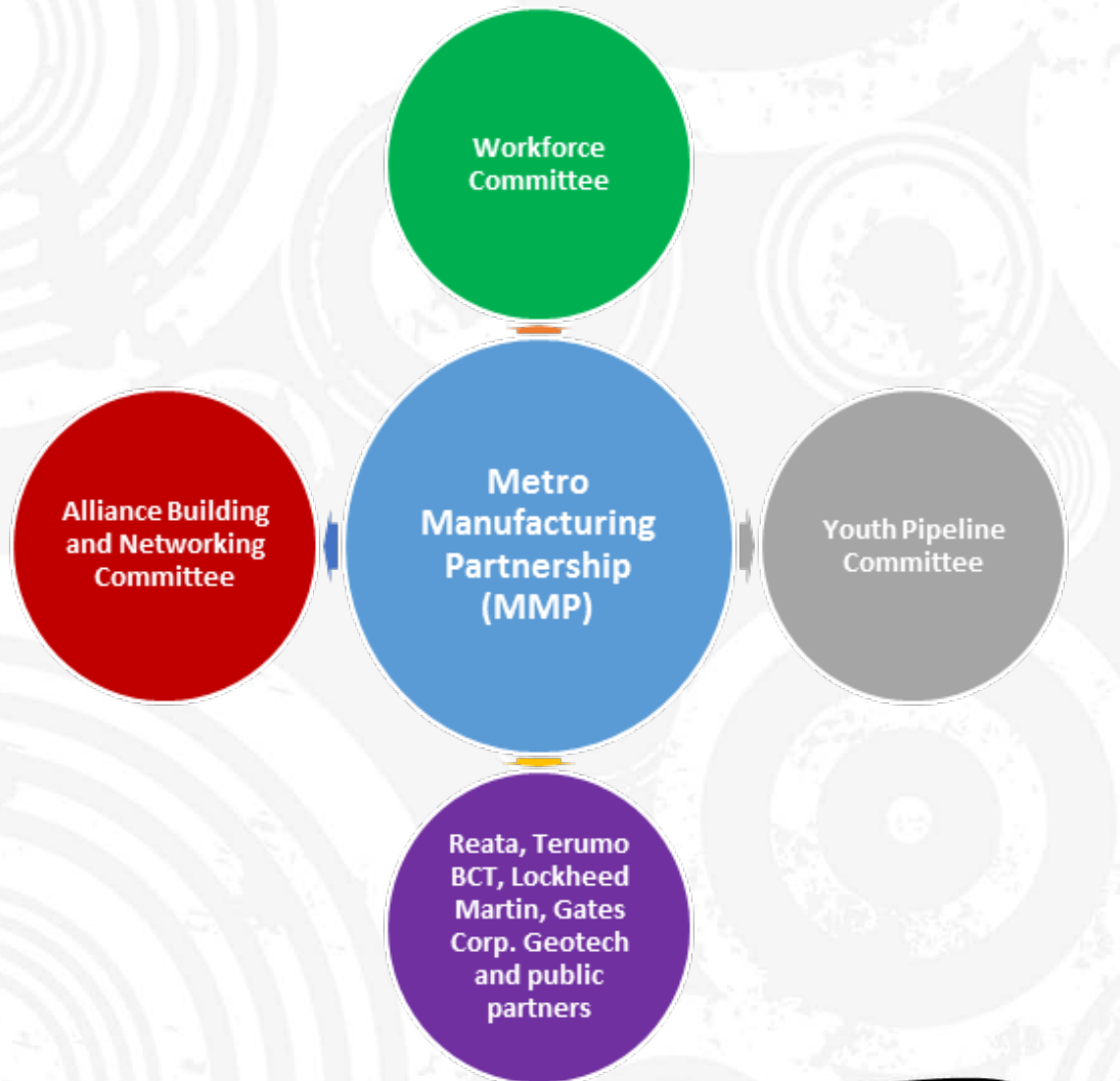
Hiring Difficulty: Critical Occupations

Difficulty to Hire, Denver-Aurora-Lakewood MSA

Occupation	Avg Monthly Postings	Avg Monthly Hires	Hires Per Listing	Difficulty to Hire
Industrial Engineers	678	104	0.15	Very Difficult
First-Line Supervisors of Production and Operating Workers	502	217	0.43	Very Difficult
Mechanical Engineers	330	227	0.69	Very Difficult
Software Developers, Systems Software	598	431	0.72	Very Difficult
Accountants and Auditors	1,999	1,620	0.81	Very Difficult
Customer Service Representatives	2,057	2,000	0.97	Very Difficult
Electrical and Electronic Equipment Assemblers	115	155	1.35	Difficult
Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	737	1,079	1.46	Difficult
Industrial Machinery Mechanics	91	159	1.74	Difficult
General and Operations Managers	1,021	1,971	1.93	Difficult
Business Operations Specialists, All Other	763	1,680	2.20	Difficult
Inspectors, Testers, Sorters, Samplers, and Weighers	90	205	2.26	Difficult
Machinists	52	160	3.04	Medium
Shipping, Receiving, and Traffic Clerks	145	474	3.27	Medium
Electromechanical Equipment Assemblers	18	66	3.77	Medium
Welders, Cutters, Solderers, and Brazers	45	198	4.37	Medium
Laborers and Freight, Stock, and Material Movers, Hand	524	2,407	4.59	Medium
Team Assemblers	66	352	5.34	Medium
Printing Press Operators	15	91	6.20	Medium
Packaging and Filling Machine Operators and Tenders	42	352	8.48	Very Easy

Source: EMSI 2016.3 QCEW Employees, Non-QCEW Employees & Self-Employed Class of Worker

Metro Manufacturing Partnership



Goals:

- Sector approach
- Cooperate around critical occupations
- Bring in public and other partners as needed