

2008-2018 REGION 9 OCCUPATIONAL PROJECTIONS, LISTED BY MAJOR OCCUPATIONAL GROUPS WITH WAGES AND TOP SKILLS

Standard Occupational Classification (SOC)	Occupational Title	2008 Estimated Employment	2018 Projected Employment	2008-18 Employment Change	Annual Growth Rate (%)	Annual New Jobs	Annual Replacements	Total Annual Openings	2011 Mean Hourly Wage	2011 Mean Annual Salary	2011 Entry Wage	2011 Entry Annual Salary	2011 Median Wage	2011 Median Annual Salary	2011 Experienced Wage	2011 Experienced Annual Salary	Education/Training Levels**	Top Skills***
00-0000	Total, All Occupations	162,365	177,890	15,525	1.0	1,665	3,690	5,355										
11-0000	Management Occupations	10,375	10,730	355	0.3	50	180	225										
11-1011	Chief Executives	300	300	0	0.0	0	10	10	\$73.32	\$152,510	\$35.66	\$74,184	\$63.57	\$132,216	\$92.15	\$191,673	4	C1, SY1, B2, B3, B7, B9
11-1021	General and Operations Managers	1,090	1,065	-25	-0.2	0	30	30	47.15	98,084	23.32	48,503	40.01	83,218	59.07	122,874	4	B2, B7, B9, B3, B6
11-2022	Sales Managers	380	465	85	2.2	10	10	15	42.77	88,966	23.40	48,661	40.34	83,923	52.47	109,118	4	B9, B2, SO6, SO4, SO1, B3, B6, SO5
11-3011	Administrative Services Managers	265	300	35	1.3	5	5	10	33.83	70,363	20.96	43,606	31.69	65,916	40.26	83,742	4	B9, B2, SO1, B7, R4, B10
11-3031	Financial Managers	380	425	40	1.1	5	5	10	43.21	89,875	25.81	53,675	40.07	83,357	51.91	107,976	4	C1, B3, B2, B7, SY1, B9, B10
11-3051	Industrial Production Managers	285	285	0	0.0	0	10	10	45.20	94,013	28.39	59,044	43.01	89,449	53.60	111,498	8	SO1, B3, B6, R3, R4
11-9012	Farmers and Ranchers	3,865	3,775	-90	-0.2	0	25	25	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	9	T4, T5, SY1, B3, T1, B6, T8, T11
11-9021	Construction Managers	330	380	50	1.5	5	5	10	38.82	80,753	25.50	53,035	34.89	72,563	45.49	94,611	5	R4, B2, B3, B3, B9
11-9111	Medical and Health Services Managers	375	435	60	1.6	5	5	15	33.43	69,525	22.70	47,209	32.22	67,004	38.79	80,682	4	B7, B9, B2, B3, SY1
11-9199	Managers, All Other	835	885	50	0.6	5	20	25	40.85	84,965	20.58	42,818	37.81	78,653	50.98	106,037	8	
13-0000	Business and Financial Operations Occupations	5,555	6,605	1,050	1.9	105	110	215										
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	300	355	55	1.8	5	10	15	24.85	51,694	17.69	36,786	24.06	50,043	28.44	59,149	9	B9, B2, B3, SY1, B6, SO3, B7
13-1051	Cost Estimators	280	350	70	2.5	5	5	15	30.11	62,626	17.83	37,098	24.32	50,599	36.25	75,391	5	B5, B3, B9, B2, SY1
13-1073	Training and Development Specialists	235	295	60	2.6	5	5	10	20.50	42,649	11.83	24,596	18.85	39,210	24.84	51,676	5	B9, SO2, B4, B7, B2
13-1079	Human Resources, Training, and Labor Relations Specialists, All Other	245	300	55	2.2	5	5	10	23.19	48,256	13.40	27,875	22.32	46,421	28.10	58,447	5	
13-1111	Management Analysts	340	410	70	2.1	5	5	15	40.70	84,667	24.41	50,790	36.57	76,067	48.85	101,606	4	B2, B7, B9, B3, C1
13-1199	Business Operations Specialists, All Other	675	760	90	1.3	10	15	25	29.82	62,019	16.88	35,110	29.38	61,120	36.28	75,474	5	
13-2011	Accountants and Auditors	1,465	1,810	345	2.4	35	25	60	30.95	64,376	18.51	38,502	26.25	54,611	37.16	77,312	5	B2, B5, B7, B10, B9
13-2052	Personal Financial Advisors	160	220	60	3.8	*	*	10	31.36	65,232	17.84	37,115	23.99	49,894	38.12	79,292	5	B3, B9, B7, SY1, B10
13-2072	Loan Officers	415	500	85	2.0	10	5	15	29.72	61,822	18.63	38,748	27.99	58,227	35.26	73,358	10	B9, B2, SY1, B7, B3
15-0000	Computer and Mathematical Occupations	1,690	2,015	325	1.9	35	35	65										
15-1031	Computer Software Engineers, Applications	285	395	110	3.9	*	*	15	42.25	87,891	28.15	58,555	40.30	83,816	49.31	102,560	5	C1, T7, SY2, SY1, SY3
15-1041	Computer Support Specialists	420	490	70	1.7	5	10	20	18.89	39,292	13.18	27,411	17.50	36,411	21.75	45,233	6	B2, B9, B7, B3, B10
15-1051	Computer Systems Analysts	265	320	55	2.1	5	5	10	37.00	76,971	26.06	54,206	36.80	76,542	42.48	88,354	5	B3, B2, B7, B9, SY2
15-1081	Network Systems and Data Communications Analysts	120	180	55	4.6	*	*	10	26.66	55,468	18.88	39,275	25.84	53,748	30.56	63,566	5	SY2, B1, B2, C1, B3, B6, T6, B9, SY3
17-0000	Architecture and Engineering Occupations	2,365	2,630	265	1.1	25	50	80										
17-2112	Industrial Engineers	360	440	80	2.2	10	10	15	34.20	71,150	25.67	53,382	33.65	69,991	38.48	80,033	5	B7, B2, C1, B3, B10
17-2141	Mechanical Engineers	340	370	30	0.9	5	10	10	37.22	77,414	26.39	54,889	35.67	74,200	42.63	88,678	5	C1, B3, B2, SY1, B5, B7
19-0000	Life, Physical, and Social Science Occupations	1,330	1,530	200	1.5	20	40	60										
19-3021	Market Research Analysts	165	200	35	2.1	5	5	10	21.81	45,367	12.98	27,006	20.62	42,898	26.22	54,547	5	B7, B2, C1, B3, SY1, B9, B10
21-0000	Community and Social Services Occupations	1,840	2,155	315	1.7	30	40	70										
21-1021	Child, Family, and School Social Workers	280	305	25	0.9	5	5	10	17.38	36,147	11.05	22,995	14.47	30,102	20.54	42,722	5	B2, B9, B7, SO6, B3, B6, SO5
21-1093	Social and Human Service Assistants	315	380	60	1.9	5	5	15	11.30	23,498	7.96	16,563	10.81	22,474	12.97	26,966	10	SO5, SO6, B2, B9, B7, B10
21-1099	Community and Social Service Specialists, All Other	210	260	50	2.4	5	5	10	15.68	32,626	10.14	21,082	13.89	28,889	18.46	38,399	5	
23-0000	Legal Occupations	645	720	80	1.2	10	10	20										
25-0000	Education, Training, and Library Occupations	8,170	9,035	865	1.1	85	185	270										
25-2011	Preschool Teachers, Except Special Education	485	555	70	1.4	5	10	15	9.99	20,782	8.30	17,275	9.00	18,717	10.84	22,535	7	B9, B4, SO2, B2, SO1, SO6
25-2021	Elementary School Teachers, Except Special Education	1,265	1,420	155	1.2	15	30	45	N.A.	38,375	N.A.	22,314	N.A.	39,571	N.A.	46,405	5	SO2, B9, B4, B2, B1, B6, SO6
25-2022	Middle School Teachers, Except Special and Vocational Education	795	890	95	1.2	10	20	30	N.A.	43,578	N.A.	31,757	N.A.	43,030	N.A.	49,488	5	SO2, B2, B7, B4, SO6, B10
25-2031	Secondary School Teachers, Except Special and Vocational Education	1,290	1,370	80	0.6	10	40	45	N.A.	44,867	N.A.	32,262	N.A.	44,855	N.A.	51,168	5	SO2, B4, B9, B2, SO1, B3
25-2041	Special Education Teachers, Preschool, Kindergarten, and Elementary School	205	240	30	1.5	5	5	10	N.A.	48,396	N.A.	32,072	N.A.	47,504	N.A.	56,559	5	SO2, B4, SO6, B9, B2
25-9041	Teacher Assistants	1,245	1,335	85	0.7	10	25	35	N.A.	19,649	N.A.	17,307	N.A.	19,150	N.A.	20,819	11	B2, B9, SO1, B6, SO5, SO6
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations	2,145	2,355	210	1.0	25	55	75										
27-1024	Graphic Designers	235	255	20	0.9	*	*	10	17.65	36,708	11.41	23,720	16.22	33,747	20.77	43,203	5	B2, T6, B9, B10, B3, B7
27-2022	Coaches and Scouts	275	330	55	2.0	5	5	10	N.A.	24,806	N.A.	16,786	N.A.	19,127	N.A.	28,816	9	SO2, B9, R3, SY1, B6
27-4021	Photographers	260	285	30	1.2	5	5	10	11.14	23,169	7.77	16,181	8.81	18,334	12.82	26,663	9	B2, B9, SO6, B3, SO1, SY2, B6, T6, B7
29-0000	Healthcare Practitioners and Technical Occupations	7,095	8,755	1,660	2.3	165	145	310										
29-1051	Pharmacists	230	270	40	1.7	5	5	10	46.87	97,508	35.58	74,002	48.80	101,494	52.53	109,261	1	B2, B7, B1, B3, B9
29-1062	Family and General Practitioners	200	245	45	2.3	5	5	10	110.39	229,597	N.A.	N.A.	N.A.	N.A.	N.A.	1	B2, B3, B9, B8, SO6	
29-1111	Registered Nurses	2,575	3,215	640	2.5	65	45	110	24.34	50,626	19.36	40,270	23.34	48,531	26.83	55,803	6	SO6, B2, SO1, B9, B3, B7, SO5
29-1123	Physical Therapists	235	310	75	3.2	10	5	10	36.92	76,787	27.39	56,967	37.11	77,200	41.68	86,698	3	B2, B9, B7, B3, SO6, R4
29-2011	Medical and Clinical Laboratory Technologists	190	230	40	2.1	5	5	10	25.15	52,312	20.65	42,939	25.49	53,015	27.41	56,999	5	B2, B8, B3, B7, SY1, B6, T8, B9
29-2012	Medical and Clinical Laboratory Technicians	220	270	50	2.3	5	5	10	15.10	31,406	9.25	19,245	13.89	28,890	18.02	37,487	6	B2, B3, B7, B8, T5, B9
29-2021	Dental Hygienists	280	370	90	3.2	10	5	15	30.47	63,381	26.61	55,345	31.10	64,680	32.40	67,399	6	B2, B9, B3, B7, SO6
29-2052	Pharmacy Technicians	370	490	120	3.2	10	10	20	12.10	25,169	9.06	18,837	11.91	24,756	13.63	28,335	10	B2, B7, B9, B3, SO5, SO6
29-2061	Licensed Practical and Licensed Vocational Nurses	625	780	155	2.5	15	20	35	16.71	34,763	13.50	28,094	16.86	35,081	18.32	38,096	7	B2, B9, B3, B7, SO1, SO5
29-2071	Medical Records and Health Information Technicians	200	240	40	2.0	5	5	10	14.09	29,319	10.50	21,841	13.50	28,090	15.90	33,058	6	B2, B7, B9, B3, B6, R4
31-0000	Healthcare Support Occupations	4,265	5,630	1,365	3.2	135	50											

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31-9091	Dental Assistants	310	405	100	3.2	10	5	15	15.43	32,100	11.93	24,802	14.54	30,252	17.19	35,749	10	B9, B2, B7, SO5, B3
31-9092	Medical Assistants	390	505	115	2.9	10	5	15	13.07	27,192	10.49	21,816	13.20	27,470	14.37	29,880	10	B2, B9, SO6, B6, B7
33-0000	Protective Service Occupations	2,060	2,265	205	1.0	20	60	80										
33-3051	Police and Sheriff's Patrol Officers	500	510	15	0.3	*	*	15	23.92	49,762	19.32	40,190	23.95	49,835	26.22	54,547	9	B2, B3, B6, SO6, B9
33-9032	Security Guards	715	835	120	1.7	10	15	25	10.45	21,731	8.43	17,546	9.85	20,491	11.45	23,825	11	B2, B9, B3, SO1, B6, B7, SO5, SO6
33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	135	150	15	1.1	*	*	10	8.55	17,784	8.01	16,653	8.40	17,471	8.82	18,349	11	SY1, B3, B6, SO6, B9
35-0000	Food Preparation and Serving Related Occupations	13,800	15,230	1,425	1.0	145	465	605										
35-1012	First-Line Supervisors/Managers of Food Preparation and Serving Workers	870	935	70	0.8	5	10	15	14.36	29,857	10.72	22,294	14.47	30,095	16.17	33,638	8	B9, B2, SO1, SO5, R3, B6
35-2011	Cooks, Fast Food	810	885	75	0.9	10	20	30	8.37	17,405	7.89	16,422	8.11	16,872	8.60	17,896	11	B2, B9, SO1, SO5, B3, SO6
35-2012	Cooks, Institution and Cafeteria	550	590	40	0.7	5	15	20	10.31	21,441	8.27	17,207	10.20	21,229	11.33	23,557	10	R4, B2, B3, B6, B7, SO5
35-2014	Cooks, Restaurant	925	1,010	80	0.9	10	25	30	10.15	21,109	8.47	17,627	10.20	21,233	10.98	22,851	9	SO1, B6, B2, B3, SY1, T8, B9
35-2021	Food Preparation Workers	1,470	1,550	80	0.5	10	55	60	9.64	20,043	8.30	17,270	9.56	19,871	10.31	21,429	11	B2, B6, B9, SO1, R4
35-3011	Bartenders	875	990	115	1.3	10	30	40	8.73	18,166	7.97	16,580	8.40	17,481	9.11	18,958	11	B2, SO5, SO6, B9, B3
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	3,885	4,505	620	1.6	60	80	145	8.57	17,830	8.01	16,653	8.46	17,591	8.86	18,419	11	B2, SO5, B9, SO1, B6, SO6
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	475	510	35	0.7	5	35	40	8.53	17,748	8.14	16,929	8.49	17,657	8.72	18,157	11	B2, SO5, SO6, B9, B3, B7
35-3031	Waiters and Waitresses	2,345	2,525	180	0.8	20	130	145	8.98	18,678	7.87	16,382	8.70	18,097	9.54	19,825	11	B2, SO5, SO6, B9, SO1
35-9021	Dishwashers	360	400	35	1.0	5	15	20	8.67	18,042	8.17	16,992	8.63	17,965	8.93	18,567	11	R4, B2, SO1, B6, B3, T4, T5, T8, SO6
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	340	360	25	0.7	*	*	25	8.17	16,983	7.97	16,593	8.23	17,106	8.26	17,178	11	B2, B9, SO5, SO6, SO1, SO4
37-0000	Building and Grounds Cleaning and Maintenance Occupations	6,220	6,735	515	0.8	50	105	155										
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	3,080	3,290	210	0.7	20	60	80	11.31	23,526	8.32	17,294	10.56	21,958	12.81	26,642	11	B3, B2, SO1, SO6, B9, R4
37-2012	Maids and Housekeeping Cleaners	1,380	1,455	75	0.5	10	25	35	9.68	20,132	8.47	17,614	9.37	19,499	10.29	21,391	11	B2, SO5, SO6, R4, B3, B6, B9
37-3011	Landscaping and Groundskeeping Workers	1,075	1,220	145	1.3	15	15	30	11.67	24,282	8.28	17,218	10.64	22,129	13.38	27,813	11	T4, B2, B3, B9, T5, R4
39-0000	Personal Care and Service Occupations	4,650	5,310	660	1.4	65	115	180										
39-3091	Amusement and Recreation Attendants	200	220	15	0.8	*	*	10	9.38	19,523	7.97	16,578	8.54	17,764	10.09	20,997	11	B9, B2, SO5, SO6, T4
39-5012	Hairdressers, Hairstylists, and Cosmetologists	750	840	95	1.3	10	10	20	10.41	21,638	8.01	16,647	10.16	21,139	11.60	24,133	7	B2, SO5, B3, B9, B1, SY1, SO6
39-9011	Child Care Workers	1,200	1,295	95	0.8	10	35	45	8.56	17,807	8.30	17,258	8.50	17,693	8.69	18,081	11	B6, SO5, B9, B3, SO6
39-9021	Personal and Home Care Aides	580	775	195	3.4	20	5	25	9.29	19,317	8.45	17,572	9.14	19,012	9.71	20,189	11	SO5, B2, SO6, B3, B9
39-9031	Fitness Trainers and Aerobics Instructors	240	290	50	2.1	5	5	10	10.30	21,424	8.24	17,137	9.22	19,177	11.33	23,568	7	SO2, SO5, B9, B2, B4, B6, SO6
41-0000	Sales and Related Occupations	17,975	19,125	1,150	0.6	125	525	650										
41-1011	First-Line Supervisors/Managers of Retail Sales Workers	2,230	2,360	130	0.6	15	50	60	18.67	38,821	11.61	24,149	16.62	34,584	22.19	46,158	8	B2, SO1, B3, B6, B6, SO5, B9
41-1012	First-Line Supervisors/Managers of Non-Retail Sales Workers	495	515	25	0.5	*	*	10	33.95	70,599	21.59	44,907	31.32	65,154	40.12	83,445	8	B9, SO1, R3, SO6, B2, B3, SY1, B6, R4
41-2011	Cashiers	3,680	3,820	140	0.4	15	165	180	8.94	18,591	8.22	17,118	8.73	18,167	9.29	19,327	11	B2, SO5, B9, B5, SO6
41-2022	Parts Salespersons	335	350	15	0.4	*	*	15	15.11	31,420	9.63	20,033	15.17	31,552	17.84	37,113	10	B2, B9, SO5, B7, SO6
41-2031	Retail Salespersons	5,605	6,135	530	0.9	55	155	210	12.83	26,680	8.33	17,324	10.36	21,554	15.08	31,358	11	B2, SO4, B9, SO6, SO3, SO6
41-3021	Insurance Sales Agents	650	745	95	1.5	10	15	25	27.11	56,393	13.68	28,454	18.99	39,496	33.82	70,362	7	B2, B7, B9, B10, B3, SO4, R4
41-3031	Securities, Commodities, and Financial Services Sales Agents	215	260	45	2.1	5	5	10	25.23	52,480	13.58	28,246	15.06	31,328	31.06	64,598	5	B9, B2, B3, SO4, B7, SY2
41-3099	Sales Representatives, Services, All Other	545	620	75	1.4	10	15	20	19.12	39,785	9.19	19,127	17.15	35,665	24.10	50,116	8	
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	1,980	2,090	110	0.6	10	45	55	30.03	62,465	15.59	32,422	25.38	52,783	37.25	77,486	8	B9, B2, SO4, SO6, B3, SO3
41-9041	Telemarketers	775	735	-40	-0.5	0	20	20	9.39	19,549	8.38	17,425	8.97	18,655	9.91	20,612	11	B9, SO4, B2, SO5, SO6
43-0000	Office and Administrative Support Occupations	22,410	24,470	2,060	0.9	235	470	700										
43-1011	First-Line Supervisors/Managers of Office and Administrative Support Workers	1,000	1,140	145	1.5	15	25	35	20.50	42,646	13.71	28,512	18.72	38,934	23.90	49,714	8	B2, B9, SO1, SO6, B3, R3
43-3011	Bill and Account Collectors	305	375	70	2.3	5	5	15	14.93	31,050	10.08	20,983	13.22	27,500	17.35	36,083	11	B2, B9, SO6, SO4, B3, SO3, B7
43-3021	Billing and Posting Clerks and Machine Operators	595	665	70	1.2	5	10	15	14.78	30,754	11.44	23,797	14.26	29,657	16.46	34,233	11	B2, B7, R4, B3, B9
43-3031	Bookkeeping, Accounting, and Auditing Clerks	2,095	2,275	180	0.9	20	25	45	15.27	31,762	10.26	21,328	14.31	29,767	17.78	36,980	10	B2, B7, B9, B3, B5, B6, R4, B10
43-3071	Tellers	690	810	120	1.7	10	30	40	11.79	24,513	10.42	21,675	11.59	24,112	12.47	25,932	11	B2, B9, B3, B5, B7, SO5
43-4051	Customer Service Representatives	2,310	2,875	565	2.4	55	75	130	12.30	25,581	8.24	17,146	10.85	22,573	14.32	29,799	10	B2, B9, SO5, SO4, B7
43-4081	Hotel, Motel, and Resort Desk Clerks	265	310	40	1.5	5	10	15	8.99	18,700	8.46	17,609	8.91	18,541	9.26	19,247	11	SO6, SO5, B9, B2, SO1
43-4171	Receptionists and Information Clerks	1,175	1,315	140	1.2	15	30	45	12.51	26,018	9.50	19,769	12.32	25,607	14.01	29,141	11	B9, B2, SO5, B7, SO1, SO6
43-5052	Postal Service Mail Carriers	320	300	-20	-0.6	0	10	10	24.86	51,711	20.87	43,402	26.76	55,669	26.85	55,866	11	B2, B3, SO5, SO6, R4
43-5061	Production, Planning, and Expediting Clerks	305	325	25	0.8	*	*	10	21.02	43,734	14.86	30,910	20.38	42,397	24.11	50,146	10	B7, B2, B3, B9, R4
43-5071	Shipping, Receiving, and Traffic Clerks	675	650	-25	-0.4	0	15	15	14.25	29,647	9.47	19,700	13.58	28,252	16.65	34,621	11	B7, B2, SY1, B6, R4
43-5081	Stock Clerks and Order Fillers	2,035	2,155	120	0.6	10	45	60	11.48	23,881	8.34	17,347	10.61	22,073	13.05	27,147	11	B9, B2, SO5, SO6, SO1, R4
43-6011	Executive Secretaries and Administrative Assistants	1,020	1,145	125	1.2	10	15	25	18.27	37,998	13.27	27,612	17.55	36,504	20.77	43,191	8	B2, B7, B9, SO5, B10
43-6013	Medical Secretaries	365	440	80	2.2	10	5	15	14.45	30,043	10.82	22,510	14.44	30,023	16.25	33,809	10	B2, SO5, B9, B7, SO1, B10
43-6014	Secretaries, Except Legal, Medical, and Executive	1,790	1,850	60	0.3	5	25	30	13.62	28,330	9.77	20,308	13.32	27,695	15.55	32,340	10	B9, B2, R4, SO5, B10
43-9061	Office Clerks, General	3,380	3,780	400	1.2	40	45	85	13.04	27,113	9.59	19,955	12.70	26,433	14.75	30,692	11	B2, B7, B9, SO6, R4, B10
45-0000	Farming, Fishing, and Forestry Occupations	585	585	0	0.0	*	*	15										
47-0000	Construction and Extraction Occupations	7,715	8,475	760	1.0	75	145 </											

2008-2018 REGION 9 OCCUPATIONAL PROJECTIONS, LISTED BY MAJOR OCCUPATIONAL GROUPS WITH WAGES AND TOP SKILLS

Standard Occupational Classification (SOC)	Occupational Title	2008 Estimated Employment	2018 Projected Employment	2008-18 Employment Change	Annual Growth Rate (%)	Annual New Jobs	Annual Replacements	Total Annual Openings	2011 Mean Hourly Wage	2011 Mean Annual Salary	2011 Entry Wage	2011 Entry Annual Salary	2011 Median Wage	2011 Median Annual Salary	2011 Experienced Wage	2011 Experienced Annual Salary	Education/Training Level**	Top Skills***
47-2152	Plumbers, Pipefitters, and Steamfitters	755	850	95	1.3	10	15	25	28.94	60,211	20.03	41,662	29.85	62,078	33.41	69,486	9	SO1, R4, B3, T5, B2, SY1, B6, B9
47-2211	Sheet Metal Workers	295	310	20	0.7	*	*	*	20.63	42,913	14.48	30,126	20.29	42,201	23.71	49,307	9	B3, SY1, R4, B5, B2, SO1, B6, B7, B9
49-0000	Installation, Maintenance, and Repair Occupations	7,215	7,795	580	0.8	60	135	195										
49-1011	First-Line Supervisors/Managers of Mechanics, Installers, and Repairers	535	560	25	0.5	5	15	15	28.54	59,370	20.30	42,222	26.97	56,097	32.67	67,945	8	R3, B6, SO1, B3, R4
49-3023	Automotive Service Technicians and Mechanics	1,270	1,315	45	0.4	5	25	30	17.51	36,405	10.82	22,508	16.73	34,801	20.84	43,354	7	T1, T9, T11, T2, T8
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	310	315	5	0.2	*	*	10	19.58	40,729	14.82	30,836	19.68	40,936	21.96	45,676	7	T9, T11, T1, T4, T5
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	270	350	80	3.0	10	5	10	22.15	46,079	16.49	34,301	22.05	45,861	24.98	51,968	9	T3, T11, T9, T1, T5
49-9041	Industrial Machinery Mechanics	465	540	75	1.6	5	15	20.51	42,673	13.62	28,312	19.26	40,063	23.97	49,855	9	T9, T1, T5, T11, T8	
49-9042	Maintenance and Repair Workers, General	1,690	1,845	155	0.9	15	25	40	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	10	T1, T9, B3, T2, T11	
51-0000	Production Occupations	18,485	18,960	475	0.3	85	380	465										
51-1011	First-Line Supervisors/Managers of Production and Operating Workers	1,205	1,225	20	0.2	*	*	20	25.48	53,011	17.56	36,514	23.54	48,949	29.46	61,260	8	B3, R4, B2, B9, SO1, R3, B9
51-2092	Team Assemblers	2,500	2,725	225	0.9	25	55	80	15.43	32,093	11.26	23,416	14.69	30,548	17.52	36,431	10	SO1, B2, B3, B9, B6, B7
51-2099	Assemblers and Fabricators, All Other	305	325	20	0.7	*	*	10	13.34	27,749	9.41	19,566	13.18	27,404	15.31	31,841	10	
51-3021	Butchers and Meat Cutters	240	240	0	0.0	0	10	10	11.03	22,942	8.35	17,366	9.94	20,685	12.37	25,730	9	B6, B2, B3, SO4, SO6, B9
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	525	635	110	2.1	10	10	20	15.71	32,688	12.41	25,816	15.11	31,439	17.36	36,123	10	B6, T5, B3, T8, T4
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	630	600	-30	-0.5	0	10	10	15.75	32,774	11.62	24,162	15.68	32,620	17.83	37,080	10	t5, B2, T4, T8, B6, B7
51-4041	Machinists	785	825	40	0.5	5	10	15	16.10	33,486	11.58	24,068	15.31	31,834	18.37	38,196	9	T5, T8, T4, T11, B3, B6
51-4121	Welders, Cutters, Solderers, and Brazers	755	800	45	0.6	5	25	25	16.31	33,931	11.92	24,791	15.23	31,685	18.51	38,501	7	B3, B2, B6, SY1, T4, T5
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	290	295	5	0.2	*	*	10	14.67	30,497	13.06	27,160	13.98	29,079	15.47	32,166	7	T5, B2, B3, B6, T4, B9
51-4193	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	285	285	0	0.0	0	10	10	14.42	30,007	10.15	21,108	12.88	26,798	16.56	34,457	10	T5, B6, B3, SY1, B9
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	705	695	-10	-0.1	0	10	10	16.42	34,150	11.19	23,273	16.32	33,944	19.04	39,589	10	B3, B2, B9, B7, B6, T5
51-9111	Packaging and Filling Machine Operators and Tenders	750	765	15	0.2	*	*	15	15.97	33,224	11.93	24,807	15.70	32,663	17.99	37,433	11	B6, T5, B2, SO1, T8
51-9198	Helpers--Production Workers	540	555	15	0.3	*	*	10	13.60	28,285	9.40	19,552	13.23	27,514	15.70	32,650	11	B2, B3, B6, B7, SO6, B9
51-9199	Production Workers, All Other	950	1,020	70	0.8	5	20	30	15.04	31,280	9.18	19,100	14.42	29,994	17.96	37,371	10	
53-0000	Transportation and Material Moving Occupations	15,765	16,780	1,015	0.6	115	390	505										
53-3031	Driver/Sales Workers	475	485	10	0.2	*	*	10	9.85	20,496	8.19	17,018	8.59	17,862	10.69	22,236	11	B2, B9, SO6, B3, SO5
53-3032	Truck Drivers, Heavy and Tractor-Trailer	3,310	3,750	440	1.3	45	60	105	17.52	36,453	11.91	24,779	16.01	33,318	20.33	42,290	11	T4, T5, B6, B2, B3, T8
53-3033	Truck Drivers, Light or Delivery Services	1,205	1,240	35	0.3	5	20	25	14.33	29,809	10.20	21,218	13.36	27,773	16.40	34,104	11	B2, B9, B3, B6, T4, SO6
53-3041	Taxi Drivers and Chauffeurs	225	260	40	1.8	5	5	10	11.53	23,994	8.30	17,261	9.74	20,258	13.15	27,361	11	B2, SO5, T4, B9, SO6, R4
53-7051	Industrial Truck and Tractor Operators	3,115	3,435	315	1.0	30	95	125	15.30	31,820	11.48	23,884	14.37	29,908	17.21	35,789	11	T4, T5, SO1, T1, B2, B3, B6
53-7061	Cleaners of Vehicles and Equipment	430	435	5	0.1	0	15	15	10.28	21,389	8.43	17,531	9.53	19,816	11.21	23,318	11	T4, T5, T8, B9, R4
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	3,210	3,430	220	0.7	20	105	125	11.89	24,726	8.65	17,993	11.05	22,981	13.51	28,094	11	B2, B3, T5, SO1, B6, B7, B9
53-7064	Packers and Packagers, Hand	1,315	1,245	-70	-0.5	0	20	20	10.47	21,768	8.45	17,581	9.75	20,294	11.47	23,861	11	B9, B2, B3, SY1, B6, T8

Legend:
Entry Wage = Average of the lowest third of reported wages for the occupation; **Experienced Wage** = Average of the upper two-thirds of reported wages for the occupation; **Mean Wage** = Average wage computed by dividing the estimated total wage for an occupation by its weighted employment; **Median Wage** = The point at which 50% of the employment was below this wage and 50% was above; N.A. = Not Available; Compensation data based on 2011 Iowa Wage Survey unless otherwise noted; Wages for *Medical Assistants* based on 2010 OES data; Missing compensation data may be derived from calculation or proration of reported wage/salary data if available.

***Employment Data Suppression** (Occupational employment data may not add up or equal occupational group totals due to rounding and/or suppression of occupations with less than ten total annual openings.).

****Education/Training Level** provides categorically the most significant education or training pathway to employment for each occupation according to the U.S. Department of Labor's Bureau of Labor Statistics (BLS). There may be alternative pathways into an occupation, however, as well as additional educational, training, or licensing requirements. Iowa Workforce Development (IWD) will use Iowa requirements when available. The levels are as follows: 1 = First Professional degree; 2 = Doctoral degree; 3 = Master's degree; 4 = Bachelor's or higher degree, plus work experience; 5 = Bachelor's degree; 6 = Associate degree; 7 = Postsecondary vocational training; 8 = Work experience in a related occupation; 9 = Long-term on-the-job training; 10 = Moderate-term on-the-job training; 11 = Short-term on-the-job training.

*****Top Skills** refers to those skills identified through questionnaire responses by sampled workers and occupational experts by the U.S. Department of Labor's Occupational Information Network (O*NET) as being the top five (or more if tied) most important for a particular occupation. These include:
Basic Skills: B1 = Active Learning; B2 = Active Listening; B3 = Critical Thinking; B4 = Learning Strategies; B5 = Mathematics; B6 = Monitoring; B7 = Reading Comprehension; B8 = Science; B9 = Speaking; B10 = Writing;
Complex Problem Solving Skills: C1 = Complex Problem Solving; **Resource Management Skills:** R1 = Management of Financial Resources; R2 = Management of Material Resources; R3 = Management of Personnel Resources; R4 = Time Management;
Social Skills: SO1 = Coordination; SO2 = Instructing; SO3 = Negotiation; SO4 = Persuasion; SO5 = Service Orientation; SO6 = Social Perceptiveness; **Systems Skills:** SY1 = Judgment and Decision Making; SY2 = Systems Analysis; SY3 = Systems Evaluation; and **Technical Skills:** T1 = Equipment Maintenance; T2 = Equipment Selection; T3 = Installation; T4 = Operation and Control; T5 = Operation Monitoring; T6 = Operations Analysis; T7 = Programming; T8 = Quality Control Analysis; T9 = Repairing; T10 = Technology Design; T11 = Troubleshooting.

Sources:
Education/Training Level: Bureau of Labor Statistics, U.S. Department of Labor; **Employment:** 2008-2018 Occupational Projections (based on 2008 annual employment data), Labor Market and Workforce Information Division, Iowa Workforce Development; **Skills:** Occupational Information Network (O*NET), Employment and Training Administration, U.S. Department of Labor; **Wages:** 2011 Iowa Wage Survey estimates, Labor Market and Workforce Information Division, Iowa Workforce Development. Estimates developed from the May 2010 Occupational Employment Statistics (OES) Wage Survey updated to the second quarter of 2011 using the Employment Cost Index.

This publication was produced by the Labor Market and Workforce Information Division of Iowa Workforce Development. Inquiries may be directed to Brent Paulson at 515.281.3439 or Brent.Paulson@iwd.iowa.gov. Visit <http://iwin.iowaworkforce.org/> to obtain the latest workforce data and trends including this document under the **Publications** tab. Published 12/2011.