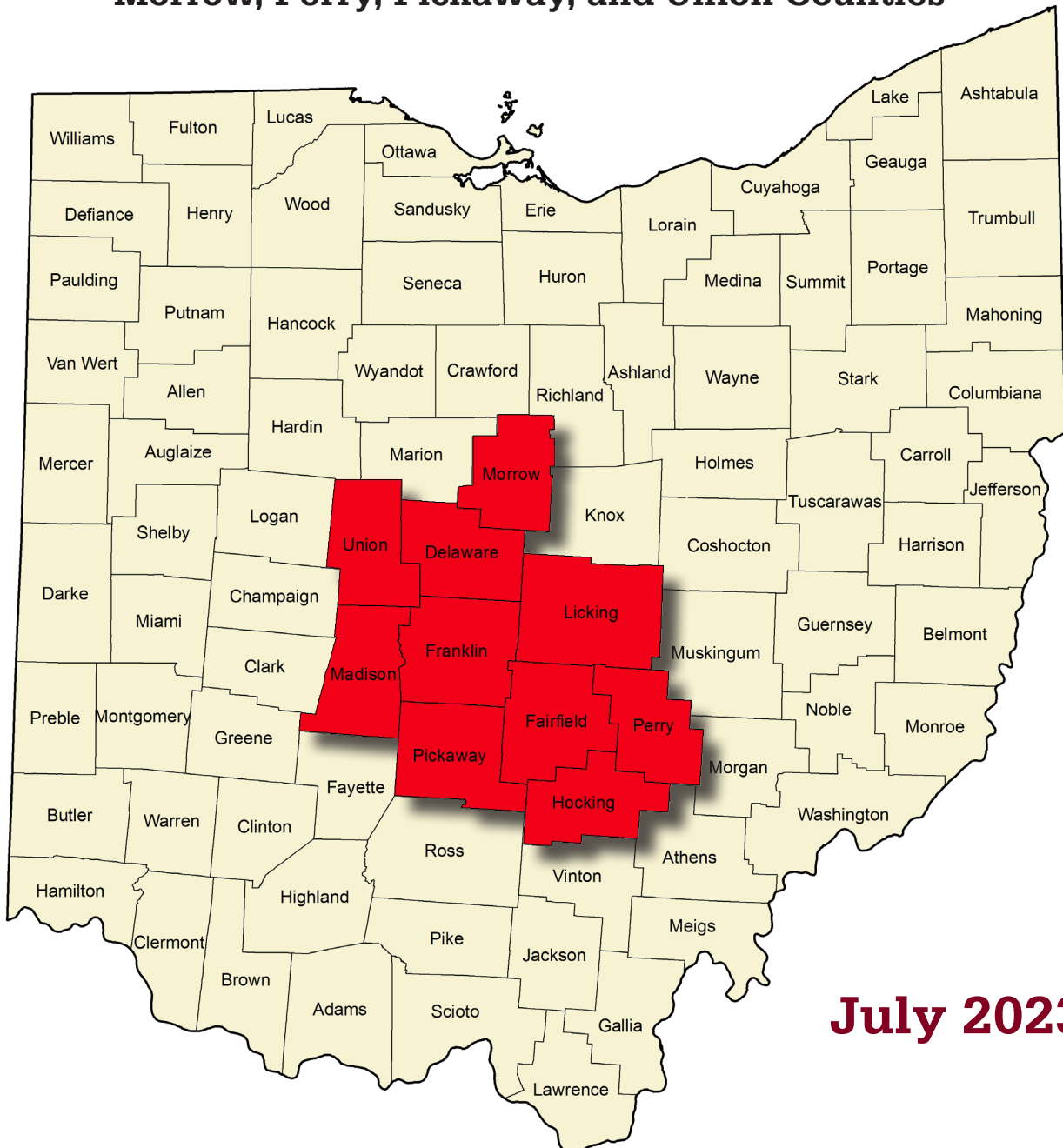


2030 Job Outlook

Columbus Metropolitan Statistical Area

Delaware, Fairfield, Franklin, Hocking, Licking, Madison,
Morrow, Perry, Pickaway, and Union Counties



July 2023

2030 Job Outlook for Ohio Metropolitan Statistical Areas

The Ohio Department of Job and Family Services' Bureau of Labor Market Information updates employment projections every two years. The projections are widely used for studying long-range economic and employment trends, planning education and training programs, and developing career information. This edition uses employment statistics through 2020 as a foundation to project employment conditions for the 10-year period ending in 2030.

The table below summarizes 2020 employment levels and projected 2030 levels for Ohio's eight largest metropolitan statistical areas. The difference between those years represents projected new jobs due to industry growth. The number of these new jobs is expected to range from a growth of 102,228 in the Columbus MSA to a growth of 5,723 jobs in the Youngstown-Warren-Boardman MSA. Among the state's largest metropolitan statistical areas, the highest projected growth is in Columbus (9.4%), followed by Cincinnati (6.0%), Dayton (4.9%), Cleveland-Elyria (4.5%), Akron (4.2%), Canton-Massillon (3.7%), Youngstown-Warren-Boardman (3.6%), and Toledo (3.5%).

Comparison of Ohio Metropolitan Statistical Areas: 2020-2030

Ohio Metropolitan Statistical Areas	2020 Employment	2030 Projected Employment	Projected Change 2020-2030	
			Number	Percent
Akron MSA	325,672	339,438	13,766	4.2%
Canton-Massillon MSA	169,284	175,464	6,180	3.7%
Cincinnati MSA	888,939	942,233	53,294	6.0%
Cleveland-Elyria MSA	1,027,279	1,073,551	46,272	4.5%
Columbus MSA	1,087,191	1,189,419	102,228	9.4%
Dayton MSA	380,258	398,981	18,723	4.9%
Toledo MSA	293,705	303,899	10,194	3.5%
Youngstown-Warren-Boardman MSA	160,838	166,561	5,723	3.6%

Each 2030 Job Outlook report for Ohio's metropolitan statistical areas contains a summary of the employment outlook by industry and occupation. Typical education, work experience, and on-the-job training required for each occupation are provided. Annual openings are the result of industry growth and vacancies resulting from retirement and transfers to different occupations.

Technical Notes

Projections of employment demand were made primarily at the four-digit industry level and then aggregated to the three-digit level, based on the North American Industry Classification System (NAICS). Shift-share, time-series and regression analysis techniques were used to compare Ohio's historical regional industry employment to statewide and national industry employment, population growth and various other factors. State and local area projections are partially dependent on the outlook for specific industries nationally.

Regional staffing patterns were estimated using the Local Employment and Wage Information System, which creates wage estimates for customized geographic regions using data from the Occupational Employment and Wage Statistics (OEWS) surveys. Wage estimates are based on Ohio's OEWS surveys. Wage estimates represent May 2021.

Ohio industry staffing patterns were adjusted for expected technological change and other factors from national data provided by the U.S. Bureau of Labor Statistics (BLS). To project occupational openings, Ohio uses national separation rates calculated by the BLS caused by workers exiting the labor force due to retirement or other reasons (labor force exits) and separations caused by workers transferring to different occupations (occupational transfers). Projections of separations are combined with projections of employment change to estimate occupational openings.

Inclusion of education and training levels is made possible by the classification of the Standard Occupational Classification-based occupations into 11 distinct categories by the BLS Office of Occupational Statistics and Employment Projections.

Because it is difficult to estimate future needs with certainty, the long-term job outlook data are updated every other year. More information about projected local job growth in Ohio is available through reports published at [Employment Projections \(ohiolmi.com\)](https://www.ohiolmi.com).

For more information, contact the Ohio Bureau of Labor Market Information at (614) 752-9494 or ContactLMI@jfs.ohio.gov.

Columbus Metropolitan Statistical Area
Occupational* Employment Projections Report, 2020-2030

SOC Code	Occupational Title	Employment*		Change in Employment		Annual Openings				Median Wage May 2021
		2020 Annual	2030 Projected	2020-2030	Percent	Growth	Exits	Transfers	Total	
00-0000	Total, All Occupations	1,087,191	1,189,419	102,228	9.4%	10,223	47,884	74,280	132,387	\$22.49
11-0000	Management Occupations	65,173	71,784	6,611	10.1%	661	1,976	3,556	6,193	\$48.35
11-1011	Chief Executives	1,715	1,573	-142	-8.3%	-14	45	66	97	\$80.74
11-1021	General and Operations Managers	13,382	14,801	1,419	10.6%	142	281	874	1,297	\$47.76
11-1031	Legislators	300	338	38	12.7%	4	7	16	27	\$37,740 **
11-2021	Marketing Managers	1,638	1,733	95	5.8%	10	34	106	150	\$62.06
11-2022	Sales Managers	2,326	2,445	119	5.1%	12	48	150	210	\$61.39
11-2030	Public Relations and Fundraising Managers	346	385	39	11.3%	4	9	21	34	\$57.62 ^
11-3010	Administrative Services and Facilities Managers	2,680	2,926	246	9.2%	25	80	140	245	\$47.73 ^
11-3021	Computer and Information Systems Managers	2,983	3,097	114	3.8%	11	49	173	233	\$63.05
11-3031	Financial Managers	5,110	6,026	916	17.9%	92	114	280	486	\$61.39
11-3051	Industrial Production Managers	1,242	1,337	95	7.7%	10	25	61	96	\$48.25
11-3061	Purchasing Managers	399	427	28	7.0%	3	9	22	34	\$61.30
11-3071	Transportation, Storage, and Distribution Managers	1,374	1,651	277	20.2%	28	29	83	140	\$40.97
11-3111	Compensation and Benefits Managers	147	151	4	2.7%	0	3	8	11	\$61.39
11-3121	Human Resources Managers	960	1,051	91	9.5%	9	23	56	88	\$60.88
11-3131	Training and Development Managers	242	269	27	11.2%	3	6	17	26	\$50.40
11-9021	Construction Managers	2,450	2,743	293	12.0%	29	54	132	215	\$47.76
11-9031	Education Administrators, Preschool and Childcare Center/Program	395	480	85	21.5%	8	11	20	39	\$22.23
11-9032	Education Administrators, Elementary and Secondary School	1,635	1,826	191	11.7%	19	43	80	142	\$98,340 **
11-9033	Education Administrators, Postsecondary	998	1,051	53	5.3%	5	25	48	78	\$50.75
11-9039	Education Administrators, All Other	248	281	33	13.3%	3	6	12	21	\$38.56
11-9041	Architectural and Engineering Managers	1,007	1,064	57	5.7%	6	19	53	78	\$63.35
11-9051	Food Service Managers	2,214	2,535	321	14.5%	32	73	190	295	\$28.63
11-9111	Medical and Health Services Managers	3,249	4,441	1,192	36.7%	119	96	195	410	\$47.78
11-9121	Natural Sciences Managers	255	270	15	5.9%	2	5	13	20	\$49.32
11-9141	Property, Real Estate, and Community Association Managers	2,725	2,804	79	2.9%	8	105	104	217	\$22.86
11-9151	Social and Community Service Managers	868	997	129	14.9%	13	28	50	91	\$30.80
11-9198	Personal Service Managers; Entertainment & Recreation Managers, Except Gambling; and Managers, All Other	3,372	3,662	290	8.6%	29	82	172	283	\$59.93 ^^^
13-0000	Business and Financial Operations Occupations	87,963	94,869	6,906	7.9%	691	2,386	5,290	8,367	\$33.24
13-1020	Buyers and Purchasing Agents	3,525	3,357	-168	-4.8%	-17	117	221	321	\$30.77
13-1031	Claims Adjusters, Examiners, and Investigators	4,637	4,528	-109	-2.4%	-11	108	238	335	\$29.60
13-1041	Compliance Officers	2,517	2,694	177	7.0%	18	63	139	220	\$36.80
13-1051	Cost Estimators	1,448	1,475	27	1.9%	3	41	88	132	\$30.66
13-1071	Human Resources Specialists	7,779	8,794	1,015	13.1%	102	224	551	877	\$29.42
13-1075	Labor Relations Specialists	570	531	-39	-6.8%	-4	15	37	48	\$38.78
13-1081	Logisticians	1,673	2,211	538	32.2%	54	41	126	221	\$37.24
13-1111	Management Analysts	8,718	9,580	862	9.9%	86	294	526	906	\$38.17
13-1121	Meeting, Convention, and Event Planners	744	853	109	14.7%	11	24	59	94	\$28.95
13-1131	Fundraisers	1,187	1,391	204	17.2%	20	40	82	142	\$29.16

Columbus Metropolitan Statistical Area Occupational* Employment Projections Report, 2020-2030

SOC Code	Occupational Title	Employment*		Change in Employment		Annual Openings				Median Wage May 2021
		2020 Annual	2030 Projected	2020-2030	Percent	Growth	Exits	Transfers	Total	
13-1141	Compensation, Benefits, and Job Analysis Specialists	766	854	88	11.5%	9	24	47	80	\$29.36
13-1151	Training and Development Specialists	3,536	4,004	468	13.2%	47	114	231	392	\$24.03
13-1161	Market Research Analysts and Marketing Specialists	6,386	7,598	1,212	19.0%	121	166	511	798	\$30.06
13-1198	Project Management Specialists and Business Operations Specialists, All Other	16,684	17,448	764	4.6%	76	396	837	1,309	\$35.90 ^^^
13-2011	Accountants and Auditors	12,333	13,126	793	6.4%	79	355	754	1,188	\$36.81
13-2020	Property Appraisers and Assessors	987	1,014	27	2.7%	3	38	36	77	\$37.24
13-2031	Budget Analysts	207	224	17	8.2%	2	5	11	18	\$38.93
13-2041	Credit Analysts	803	795	-8	-1.0%	-1	14	54	67	\$31.43
13-2052	Personal Financial Advisors	1,727	1,929	202	11.7%	20	41	90	151	\$39.70
13-2053	Insurance Underwriters	1,337	1,272	-65	-4.9%	-6	27	68	89	\$37.21
13-2061	Financial Examiners	1,325	1,619	294	22.2%	29	39	68	136	\$37.24
13-2072	Loan Officers	3,151	3,275	124	3.9%	12	69	175	256	\$30.37
13-2081	Tax Examiners and Collectors, and Revenue Agents	490	484	-6	-1.2%	-1	19	22	40	\$30.51
13-2098	Financial and Investment Analysts, Financial Risk Specialists, and Financial Specialists, All Other	4,802	5,165	363	7.6%	36	88	284	408	\$35.21 ^^^
15-0000	Computer and Mathematical Occupations	46,460	49,514	3,054	6.6%	305	1,001	2,366	3,672	\$39.69
15-1211	Computer Systems Analysts	6,862	6,909	47	0.7%	5	134	339	478	\$47.34
15-1212	Information Security Analysts	1,485	1,881	396	26.7%	40	26	93	159	\$47.79
15-1231	Computer Network Support Specialists	1,984	2,116	132	6.7%	13	38	108	159	\$30.12
15-1232	Computer User Support Specialists	4,882	4,916	34	0.7%	3	92	259	354	\$23.12
15-1244	Network and Computer Systems Administrators	2,491	2,565	74	3.0%	7	42	119	168	\$38.85
15-1245	Database Administrators and Architects	1,356	1,400	44	3.2%	4	32	68	104	\$47.44 ^^^
15-1251	Computer Programmers	1,367	1,065	-302	-22.1%	-30	24	56	50	\$39.18
15-1256	Software Developers and Software Quality Assurance Analysts and Testers	16,394	18,144	1,750	10.7%	175	400	847	1,422	\$49.49 ^^^
15-1257	Web Developers and Digital Interface Designers	1,524	1,568	44	2.9%	4	36	76	116	\$49.49 ^^^
15-1299	Computer Occupations, All Other	3,919	4,137	218	5.6%	22	93	198	313	\$47.76
15-2011	Actuaries	498	629	131	26.3%	13	9	22	44	\$48.54
15-2031	Operations Research Analysts	1,349	1,604	255	18.9%	26	32	64	122	\$41.22
15-2098	Data Scientists and Mathematical Science Occupations, All Other	635	763	128	20.2%	13	14	35	62	\$30.03 ^^^
17-0000	Architecture and Engineering Occupations	16,417	17,561	1,144	7.0%	114	401	802	1,317	\$37.40
17-1011	Architects, Except Landscape and Naval	909	961	52	5.7%	5	26	40	71	\$37.45
17-1022	Surveyors	212	222	10	4.7%	1	7	11	19	\$29.68
17-2011	Aerospace Engineers	112	127	15	13.4%	2	2	4	8	\$49.05
17-2031	Biomedical Engineers	128	134	6	4.7%	1	3	5	9	\$47.49
17-2041	Chemical Engineers	185	200	15	8.1%	2	4	7	13	\$46.88
17-2051	Civil Engineers	1,626	1,798	172	10.6%	17	34	85	136	\$38.00
17-2061	Computer Hardware Engineers	187	185	-2	-1.1%	0	4	9	13	\$37.62
17-2071	Electrical Engineers	1,442	1,582	140	9.7%	14	36	61	111	\$47.38
17-2072	Electronics Engineers, Except Computer	673	718	45	6.7%	4	16	28	48	\$46.19
17-2081	Environmental Engineers	308	329	21	6.8%	2	8	16	26	\$38.58
17-2112	Industrial Engineers	2,353	2,630	277	11.8%	28	54	100	182	\$38.98

Columbus Metropolitan Statistical Area
Occupational* Employment Projections Report, 2020-2030

SOC Code	Occupational Title	Employment*		Change in Employment		Annual Openings				Median Wage May 2021
		2020 Annual	2030 Projected	2020-2030	Percent	Growth	Exits	Transfers	Total	
17-2131	Materials Engineers	207	229	22	10.6%	2	4	9	15	\$39.19
17-2141	Mechanical Engineers	2,425	2,615	190	7.8%	19	43	104	166	\$38.07
17-2199	Engineers, All Other	1,343	1,402	59	4.4%	6	29	57	92	\$38.97
17-3011	Architectural and Civil Drafters	667	667	0	0.0%	0	20	42	62	\$29.02
17-3012	Electrical and Electronics Drafters	124	127	3	2.4%	0	4	8	12	\$29.02
17-3013	Mechanical Drafters	390	366	-24	-6.2%	-2	12	24	34	\$29.19
17-3019	Drafters, All Other	171	160	-11	-6.4%	-1	5	10	14	\$23.08
17-3022	Civil Engineering Technicians	320	338	18	5.6%	2	10	20	32	\$29.03
17-3023	Electrical and Electronics Engineering Technicians	564	572	8	1.4%	1	17	35	53	\$31.99
17-3025	Environmental Engineering Technicians	115	124	9	7.8%	1	4	7	12	\$18.14
17-3026	Industrial Engineering Technicians	451	483	32	7.1%	3	14	29	46	\$28.95
17-3027	Mechanical Engineering Technicians	258	272	14	5.4%	1	8	16	25	\$29.49
17-3031	Surveying and Mapping Technicians	260	274	14	5.4%	1	9	23	33	\$22.64
17-3098	Calibration and Engineering Technologists and Technicians, Except Drafters, All Other	386	409	23	6.0%	2	12	24	38	\$29.18 ^^^
19-0000	Life, Physical, and Social Science Occupations	9,164	9,880	716	7.8%	72	197	655	924	\$31.29
19-1012	Food Scientists and Technologists	136	143	7	5.2%	1	3	12	16	\$39.40
19-1041	Epidemiologists	176	237	61	34.7%	6	3	12	21	\$37.38
19-1042	Medical Scientists, Except Epidemiologists	930	1,096	166	17.9%	17	13	58	88	\$37.32
19-2031	Chemists	641	699	58	9.1%	6	10	50	66	\$37.16
19-2041	Environmental Scientists and Specialists, Including Health	788	802	14	1.8%	1	13	63	77	\$39.27
19-2043	Hydrologists	167	176	9	5.4%	1	3	14	18	\$39.53
19-2099	Physical Scientists, All Other	123	121	-2	-1.6%	0	2	8	10	\$39.27
19-3031	Clinical, Counseling, and School Psychologists	787	875	88	11.2%	9	22	32	63	\$38.96 ^^^
19-3039	Psychologists, All Other	137	140	3	2.2%	0	4	5	9	\$51.16
19-3051	Urban and Regional Planners	123	135	12	9.8%	1	2	9	12	\$29.97
19-3099	Social Scientists and Related Workers, All Other	679	674	-5	-0.7%	0	15	44	59	\$39.53
19-4021	Biological Technicians	884	953	69	7.8%	7	22	92	121	\$23.03
19-4031	Chemical Technicians	386	401	15	3.9%	2	7	35	44	\$24.17
19-4042	Environmental Science and Protection Technicians, Including Health	283	314	31	11.0%	3	8	28	39	\$17.76
19-4061	Social Science Research Assistants	117	127	10	8.6%	1	3	12	16	\$30.36
19-4092	Forensic Science Technicians	155	179	24	15.5%	2	4	16	22	\$30.89
19-4099	Life, Physical, and Social Science Technicians, All Other	203	222	19	9.4%	2	6	20	28	\$24.11
19-5011	Occupational Health and Safety Specialists	1,057	1,128	71	6.7%	7	30	47	84	\$37.98
19-5012	Occupational Health and Safety Technicians	133	139	6	4.5%	1	4	6	11	\$22.73
21-0000	Community and Social Service Occupations	19,385	22,650	3,265	16.8%	326	726	1,345	2,397	\$23.37
21-1012	Educational, Guidance, School, and Vocational Counselors	1,733	1,945	212	12.2%	21	60	109	190	\$29.66
21-1015	Rehabilitation Counselors	1,532	2,002	470	30.7%	47	58	105	210	\$18.72
21-1018	Substance Abuse, Behavioral Disorder, and Mental Health Counselors	1,771	2,249	478	27.0%	48	65	119	232	\$23.51
21-1021	Child, Family, and School Social Workers	1,243	1,516	273	22.0%	27	39	87	153	\$23.41
21-1022	Healthcare Social Workers	1,407	1,630	223	15.9%	22	43	96	161	\$29.64

Columbus Metropolitan Statistical Area Occupational* Employment Projections Report, 2020-2030

SOC Code	Occupational Title	Employment*		Change in Employment		Annual Openings				Median Wage May 2021
		2020 Annual	2030 Projected	2020-2030	Percent	Growth	Exits	Transfers	Total	
21-1023	Mental Health and Substance Abuse Social Workers	1,570	1,880	310	19.8%	31	48	109	188	\$23.41
21-1029	Social Workers, All Other	553	598	45	8.1%	4	16	36	56	\$28.73
21-1091	Health Educators	534	610	76	14.2%	8	19	39	66	\$29.29
21-1092	Probation Officers and Correctional Treatment Specialists	614	666	52	8.5%	5	14	38	57	\$28.97
21-1093	Social and Human Service Assistants	3,300	3,987	687	20.8%	69	145	275	489	\$18.14
21-1094	Community Health Workers	340	424	84	24.7%	8	13	26	47	\$17.95
21-1099	Community and Social Service Specialists, All Other	513	546	33	6.4%	3	18	36	57	\$28.86
21-2011	Clergy	3,236	3,478	242	7.5%	24	138	194	356	\$23.96
23-0000	Legal Occupations	9,572	10,361	789	8.2%	79	267	372	718	\$36.98
23-1011	Lawyers	5,717	6,230	513	9.0%	51	129	147	327	\$49.85
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	396	396	0	0.0%	0	9	10	19	\$30.49
23-1023	Judges, Magistrate Judges, and Magistrates	428	446	18	4.2%	2	9	11	22	\$39.31
23-2011	Paralegals and Legal Assistants	2,370	2,620	250	10.6%	25	97	168	290	\$23.00
23-2093	Title Examiners, Abstractors, and Searchers	425	418	-7	-1.7%	-1	15	25	39	\$23.39
23-2099	Legal Support Workers, All Other	148	153	5	3.4%	0	6	9	15	\$28.73
25-0000	Education, Training, and Library Occupations	60,699	69,073	8,374	13.8%	837	2,553	2,935	6,325	\$29.38
25-1011	Business Teachers, Postsecondary	393	398	5	1.3%	0	18	18	36	\$100,530 **
25-1021	Computer Science Teachers, Postsecondary	170	174	4	2.4%	0	8	8	16	\$101,110 **
25-1022	Mathematical Science Teachers, Postsecondary	375	379	4	1.1%	0	17	18	35	\$79,330 **
25-1042	Biological Science Teachers, Postsecondary	712	776	64	9.0%	6	33	35	74	\$98,210 **
25-1052	Chemistry Teachers, Postsecondary	160	172	12	7.5%	1	7	8	16	\$79,150 **
25-1054	Physics Teachers, Postsecondary	130	139	9	6.9%	1	6	6	13	\$95,910 **
25-1066	Psychology Teachers, Postsecondary	271	287	16	5.9%	2	12	13	27	\$95,910 **
25-1069	Social Sciences Teachers, Postsecondary, All Other	139	132	-7	-5.0%	-1	6	6	11	\$77,540 **
25-1072	Nursing Instructors and Teachers, Postsecondary	434	493	59	13.6%	6	21	22	49	\$80,070 **
25-1081	Education Teachers, Postsecondary	224	235	11	4.9%	1	10	11	22	\$62,850 **
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	119	119	0	0.0%	0	5	6	11	\$75,840 **
25-1112	Law Teachers, Postsecondary	169	184	15	8.9%	2	8	8	18	\$117,010 ††
25-1113	Social Work Teachers, Postsecondary	106	111	5	4.7%	0	5	5	10	\$78,570 **
25-1121	Art, Drama, and Music Teachers, Postsecondary	465	494	29	6.2%	3	21	22	46	\$78,730 **
25-1122	Communications Teachers, Postsecondary	132	138	6	4.6%	1	6	6	13	\$79,520 **
25-1123	English Language and Literature Teachers, Postsecondary	364	368	4	1.1%	0	16	17	33	\$75,930 **
25-1124	Foreign Language and Literature Teachers, Postsecondary	230	243	13	5.7%	1	11	11	23	\$78,570 **
25-1125	History Teachers, Postsecondary	258	263	5	1.9%	0	12	12	24	\$82,650 **
25-1126	Philosophy and Religion Teachers, Postsecondary	107	115	8	7.5%	1	5	5	11	\$79,900 **
25-1193	Recreation and Fitness Studies Teachers, Postsecondary	112	115	3	2.7%	0	5	5	10	\$79,270 **
25-1194	Vocational Education Teachers, Postsecondary	155	158	3	1.9%	0	7	7	14	\$22.94
25-2011	Preschool Teachers, Except Special Education	3,669	4,979	1,310	35.7%	131	177	252	560	\$13.97
25-2012	Kindergarten Teachers, Except Special Education	516	576	60	11.6%	6	22	32	60	\$63,170 **
25-2021	Elementary School Teachers, Except Special Education	9,205	10,222	1,017	11.1%	102	298	389	789	\$76,880 **
25-2022	Middle School Teachers, Except Special and Career/Technical Education	5,621	6,244	623	11.1%	62	182	238	482	\$63,670 **

Columbus Metropolitan Statistical Area
Occupational* Employment Projections Report, 2020-2030

SOC Code	Occupational Title	Employment*		Change in Employment		Annual Openings				Median Wage May 2021
		2020 Annual	2030 Projected	2020-2030	Percent	Growth	Exits	Transfers	Total	
25-2031	Secondary School Teachers, Except Special and Career/Technical Education	8,489	9,475	986	11.6%	99	238	364	701	\$76,000 **
25-2032	Career/Technical Education Teachers, Secondary School	434	476	42	9.7%	4	12	18	34	\$63,330 **
25-2051	Special Education Teachers, Preschool	320	367	47	14.7%	5	11	14	30	\$62,420 **
25-2052	Special Education Teachers, Kindergarten and Elementary School	1,631	1,815	184	11.3%	18	56	68	142	\$76,880 **
25-2057	Special Education Teachers, Middle School	754	838	84	11.1%	8	26	32	66	\$61,150 **
25-2058	Special Education Teachers, Secondary School	1,605	1,789	184	11.5%	18	55	68	141	\$62,670 **
25-3011	Adult Basic and Secondary Education and Literacy Teachers and Instructors	140	136	-4	-2.9%	0	8	7	15	\$29.72
25-3021	Self-Enrichment Education Teachers	2,260	3,014	754	33.4%	75	157	141	373	\$14.39
25-3031	Substitute Teachers, Short-Term	1,139	1,340	201	17.7%	20	74	66	160	\$13.73
25-3097	Teachers and Instructors, All Other, Except Substitute Teachers	1,484	1,733	249	16.8%	25	96	86	207	\$17.94 ^^^
25-4022	Librarians and Media Collections Specialists	978	1,067	89	9.1%	9	50	45	104	\$29.15
25-4031	Library Technicians	606	613	7	1.2%	1	50	38	89	\$18.27
25-9031	Instructional Coordinators	1,165	1,289	124	10.6%	12	60	54	126	\$30.13
25-9044	Teaching Assistants, Postsecondary	2,609	2,707	98	3.8%	10	119	124	253	\$31,550 **
25-9045	Teaching Assistants, Except Postsecondary	7,137	8,197	1,060	14.9%	106	343	358	807	\$28,850 **
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations	19,381	21,148	1,767	9.1%	177	773	1,274	2,224	\$23.89
27-1011	Art Directors	501	514	13	2.6%	1	25	26	52	\$42.39
27-1014	Multimedia Artists and Animators	203	197	-6	-3.0%	-1	10	10	19	\$37.88 ^
27-1021	Commercial and Industrial Designers	221	234	13	5.9%	1	7	14	22	\$30.65
27-1023	Floral Designers	298	247	-51	-17.1%	-5	8	16	19	\$14.17
27-1024	Graphic Designers	1,727	1,818	91	5.3%	9	54	105	168	\$24.78
27-1025	Interior Designers	739	759	20	2.7%	2	23	45	70	\$28.82
27-1026	Merchandise Displayers and Window Trimmers	1,319	1,378	59	4.5%	6	41	80	127	\$14.65
27-2012	Producers and Directors	653	613	-40	-6.1%	-4	14	40	50	\$29.24
27-2022	Coaches and Scouts	2,736	3,237	501	18.3%	50	170	240	460	\$38,070 **
27-2041	Music Directors and Composers	386	429	43	11.1%	4	24	23	51	\$32.87
27-3011	Radio and Television Announcers	158	170	12	7.6%	1	6	9	16	\$14.11
27-3023	News Analysts, Reporters, and Journalists	410	381	-29	-7.1%	-3	12	30	39	\$19.95
27-3031	Public Relations Specialists	2,601	2,814	213	8.2%	21	68	178	267	\$30.20
27-3041	Editors	700	676	-24	-3.4%	-2	22	43	63	\$30.16
27-3042	Technical Writers	340	374	34	10.0%	3	9	22	34	\$31.60
27-3043	Writers and Authors	1,022	969	-53	-5.2%	-5	40	55	90	\$24.16
27-3091	Interpreters and Translators	2,005	2,697	692	34.5%	69	91	128	288	\$18.74
27-4011	Audio and Video Equipment Technicians	249	292	43	17.3%	4	7	20	31	\$23.32
27-4012	Broadcast Technicians	107	107	0	0.0%	0	3	8	11	\$23.03
27-4021	Photographers	674	693	19	2.8%	2	23	38	63	\$18.07
29-0000	Healthcare Practitioners and Technical Occupations	66,515	75,593	9,078	13.7%	908	1,834	2,127	4,869	\$30.19
29-1011	Chiropractors	377	416	39	10.3%	4	6	3	13	\$29.34
29-1021	Dentists, General	680	757	77	11.3%	8	13	6	27	\$80.68
29-1031	Dietitians and Nutritionists	437	495	58	13.3%	6	15	16	37	\$29.43
29-1041	Optometrists	325	355	30	9.2%	3	6	4	13	\$49.29

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		2020 Annual	2030 Projected	2020-2030	Percent	Growth	Exits	Transfers	Total	
29-1051	Pharmacists	2,239	2,254	15	0.7%	2	41	43	86	\$61.90
29-1071	Physician Assistants	667	895	228	34.2%	23	12	31	66	\$49.32
29-1122	Occupational Therapists	920	1,088	168	18.3%	17	22	33	72	\$39.62
29-1123	Physical Therapists	1,524	1,817	293	19.2%	29	33	35	97	\$47.76
29-1125	Recreational Therapists	114	122	8	7.0%	1	4	5	10	\$22.99
29-1126	Respiratory Therapists	989	1,253	264	26.7%	26	24	28	78	\$29.87
29-1127	Speech-Language Pathologists	1,191	1,568	377	31.7%	38	32	49	119	\$38.21
29-1128	Exercise Physiologists	161	185	24	14.9%	2	5	6	13	\$14.21
29-1129	Therapists, All Other	889	972	83	9.3%	8	29	32	69	\$36.16
29-1131	Veterinarians	754	891	137	18.2%	14	13	13	40	\$48.05
29-1141	Registered Nurses	25,025	28,283	3,258	13.0%	326	711	671	1,708	\$36.16
29-1151	Nurse Anesthetists	619	719	100	16.2%	10	13	20	43	\$81.39
29-1171	Nurse Practitioners	1,645	2,507	862	52.4%	86	43	65	194	\$49.63
29-1211	Anesthesiologists	351	366	15	4.3%	2	6	4	12	#
29-1215	Family Medicine Physicians	296	324	28	9.5%	3	5	4	12	\$81.94
29-1216	General Internal Medicine Physicians	474	483	9	1.9%	1	8	5	14	\$85.12
29-1218	Obstetricians and Gynecologists	192	193	1	0.5%	0	3	2	5	\$81.57
29-1223	Psychiatrists	100	119	19	19.0%	2	2	1	5	#
29-1228	Physicians, All Other; and Ophthalmologists, Except Pediatric	1,986	2,182	196	9.9%	20	34	24	78	\$37.45 ^^^
29-1248	Surgeons, Except Ophthalmologists	375	375	0	0.0%	0	6	4	10	# ^
29-1292	Dental Hygienists	1,182	1,352	170	14.4%	17	45	32	94	\$37.13
29-1298	Acupuncturists and Healthcare Diagnosing or Treating Practitioners, All Other	150	160	10	6.7%	1	7	2	10	\$37.45 ^^^
29-2010	Clinical Laboratory Technologists and Technicians	2,303	2,575	272	11.8%	27	63	90	180	\$23.94
29-2031	Cardiovascular Technologists and Technicians	261	290	29	11.1%	3	8	12	23	\$29.90
29-2032	Diagnostic Medical Sonographers	407	506	99	24.3%	10	12	20	42	\$31.31
29-2033	Nuclear Medicine Technologists	101	112	11	10.9%	1	3	5	9	\$38.23
29-2034	Radiologic Technologists	1,549	1,731	182	11.8%	18	45	70	133	\$28.74
29-2035	Magnetic Resonance Imaging Technologists	165	183	18	10.9%	2	5	8	15	\$37.24
29-2040	Emergency Medical Technicians and Paramedics	881	952	71	8.1%	7	17	42	66	\$17.76 ^
29-2051	Dietetic Technicians	174	197	23	13.2%	2	5	8	15	\$17.63
29-2052	Pharmacy Technicians	2,919	3,026	107	3.7%	11	81	128	220	\$17.63
29-2053	Psychiatric Technicians	396	494	98	24.8%	10	12	19	41	\$14.26
29-2055	Surgical Technologists	770	867	97	12.6%	10	22	35	67	\$23.15
29-2056	Veterinary Technologists and Technicians	971	1,117	146	15.0%	15	28	45	88	\$17.59
29-2057	Ophthalmic Medical Technicians	546	650	104	19.1%	10	16	26	52	\$17.62
29-2061	Licensed Practical and Licensed Vocational Nurses	6,612	7,505	893	13.5%	89	238	295	622	\$23.08
29-2081	Opticians, Dispensing	715	754	39	5.5%	4	30	25	59	\$21.77
29-2091	Orthotists and Prosthetists	132	155	23	17.4%	2	4	6	12	\$28.68
29-2098	Medical Dosimetrists, Medical Records Specialists, and Health Technologists and Technicians, All Other	2,307	2,554	247	10.7%	25	66	104	195	\$22.55 ^^^
29-9091	Athletic Trainers	227	257	30	13.2%	3	7	10	20	\$48,390 **

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		2020 Annual	2030 Projected	2020-2030	Percent	Growth	Exits	Transfers	Total	
29-9098	Health Information Technologists, Medical Registrars, Surgical Assistants, & Healthcare Practitioners, AO	433	459	26	6.0%	3	12	19	34	\$26.19 ^{^^^}
31-0000	Healthcare Support Occupations	45,822	57,356	11,534	25.2%	1,153	3,057	3,153	7,363	\$14.21
31-1120	Home Health and Personal Care Aides	23,654	31,796	8,142	34.4%	814	1,775	1,570	4,159	\$11.55
31-1131	Nursing Assistants	9,462	10,356	894	9.5%	89	634	561	1,284	\$14.45
31-1132	Orderlies	383	426	43	11.2%	4	26	23	53	\$14.14
31-1133	Psychiatric Aides	179	202	23	12.9%	2	12	11	25	\$18.34
31-2011	Occupational Therapy Assistants	474	647	173	36.5%	17	28	41	86	\$29.98
31-2021	Physical Therapist Assistants	924	1,198	274	29.7%	27	45	80	152	\$30.09
31-9011	Massage Therapists	926	1,157	231	25.0%	23	61	54	138	\$23.15
31-9091	Dental Assistants	2,192	2,502	310	14.1%	31	107	165	303	\$22.61
31-9092	Medical Assistants	4,845	5,913	1,068	22.0%	107	221	402	730	\$17.96
31-9093	Medical Equipment Preparers	531	599	68	12.8%	7	31	37	75	\$18.23
31-9094	Medical Transcriptionists	114	100	-14	-12.3%	-1	6	9	14	\$18.37
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	847	985	138	16.3%	14	45	101	160	\$14.28
31-9097	Phlebotomists	624	735	111	17.8%	11	29	49	89	\$17.89
31-9099	Healthcare Support Workers, All Other	436	489	53	12.2%	5	26	30	61	\$18.39
33-0000	Protective Service Occupations	21,274	23,629	2,355	11.1%	236	1,002	1,418	2,656	\$23.04
33-1012	First-Line Supervisors of Police and Detectives	431	462	31	7.2%	3	10	18	31	\$47.76
33-1021	First-Line Supervisors of Fire Fighting and Prevention Workers	549	615	66	12.0%	7	14	23	44	\$39.15
33-1090	Miscellaneous First-Line Supervisors, Protective Service Workers	588	674	86	14.6%	9	23	37	69	\$25.23 [^]
33-2011	Firefighters	3,369	3,783	414	12.3%	41	79	185	305	\$29.12
33-3011	Bailiffs	233	249	16	6.9%	2	9	13	24	\$23.01
33-3012	Correctional Officers and Jailers	2,560	2,299	-261	-10.2%	-26	92	131	197	\$23.04
33-3021	Detectives and Criminal Investigators	563	572	9	1.6%	1	14	26	41	\$37.66
33-3051	Police and Sheriff's Patrol Officers	4,479	4,965	486	10.9%	49	118	240	407	\$37.76
33-9021	Private Detectives and Investigators	124	123	-1	-0.8%	0	3	7	10	\$23.95
33-9032	Security Guards	6,041	7,093	1,052	17.4%	105	348	509	962	\$14.14
33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	777	1,009	232	29.9%	23	123	99	245	\$10.85
33-9093	Transportation Security Screeners	302	317	15	5.0%	2	11	15	28	\$21.65 [†]
33-9098	School Bus Monitors and Protective Service Workers, All Other	647	783	136	21.0%	14	98	79	191	\$15.11 ^{^^^}
35-0000	Food Preparation and Serving Related Occupations	80,715	95,864	15,149	18.8%	1,515	6,664	9,061	17,240	\$11.31
35-1011	Chefs and Head Cooks	556	678	122	21.9%	12	18	60	90	\$24.91
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	8,543	10,480	1,937	22.7%	194	424	969	1,587	\$17.59
35-2011	Cooks, Fast Food	4,154	4,081	-73	-1.8%	-7	242	352	587	\$11.35
35-2012	Cooks, Institution and Cafeteria	3,492	3,810	318	9.1%	32	215	312	559	\$14.38
35-2014	Cooks, Restaurant	5,672	8,389	2,717	47.9%	272	414	602	1,288	\$14.10
35-2015	Cooks, Short Order	1,062	1,203	141	13.3%	14	67	97	178	\$12.47
35-2021	Food Preparation Workers	5,146	5,526	380	7.4%	38	419	491	948	\$12.30
35-3011	Bartenders	3,194	4,285	1,091	34.2%	109	169	453	731	\$10.16
35-3023	Fast Food and Counter Workers	25,702	29,589	3,887	15.1%	389	2,680	2,923	5,992	\$10.79

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		2020 Annual	2030 Projected	2020-2030	Percent	Growth	Exits	Transfers	Total	
35-3031	Waiters and Waitresses	15,350	18,473	3,123	20.4%	312	1,242	2,019	3,573	\$10.05
35-3041	Food Servers, Nonrestaurant	1,794	1,975	181	10.1%	18	149	147	314	\$12.98
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	1,268	1,633	365	28.8%	36	125	126	287	\$11.18
35-9021	Dishwashers	2,034	2,399	365	17.9%	36	167	185	388	\$11.27
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	2,070	2,560	490	23.7%	49	274	261	584	\$10.99
35-9099	Food Preparation and Serving Related Workers, All Other	485	610	125	25.8%	12	47	47	106	\$11.52
37-0000	Building and Grounds Cleaning and Maintenance Occupations	33,358	35,578	2,220	6.7%	222	1,946	2,521	4,689	\$14.41
37-1011	First-Line Supervisors of Housekeeping and Janitorial Workers	1,506	1,552	46	3.1%	5	66	106	177	\$19.54
37-1012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	1,179	1,225	46	3.9%	5	37	86	128	\$23.36
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	15,725	16,667	942	6.0%	94	1,011	1,135	2,240	\$14.18
37-2012	Maids and Housekeeping Cleaners	6,560	7,120	560	8.5%	56	465	440	961	\$13.12
37-3011	Landscaping and Groundskeeping Workers	7,828	8,418	590	7.5%	59	350	696	1,105	\$14.94
39-0000	Personal Care and Service Occupations	22,657	27,551	4,894	21.6%	489	1,612	1,979	4,080	\$12.83
39-2011	Animal Trainers	123	157	34	27.6%	3	6	10	19	\$14.32
39-2021	Nonfarm Animal Caretakers	1,611	2,250	639	39.7%	64	124	160	348	\$11.09
39-3031	Ushers, Lobby Attendants, and Ticket Takers	577	908	331	57.4%	33	94	76	203	\$11.50
39-3091	Amusement and Recreation Attendants	1,769	2,379	610	34.5%	61	202	232	495	\$10.75
39-3093	Locker Room, Coatroom, and Dressing Room Attendants	111	140	29	26.1%	3	12	14	29	\$14.05
39-4021	Funeral Attendants	330	349	19	5.8%	2	19	26	47	\$14.08 †
39-5012	Hairdressers, Hairstylists, and Cosmetologists	3,961	4,347	386	9.8%	39	220	231	490	\$14.05
39-5094	Skincare Specialists	327	395	68	20.8%	7	18	19	44	\$18.05
39-6012	Concierges	105	122	17	16.2%	2	6	9	17	\$13.94
39-7010	Tour and Travel Guides	140	162	22	15.7%	2	10	14	26	\$22.66
39-9011	Childcare Workers	6,334	7,157	823	13.0%	82	454	471	1,007	\$11.29
39-9031	Fitness Trainers and Aerobics Instructors	1,990	2,854	864	43.4%	86	142	230	458	\$17.19
39-9032	Recreation Workers	2,618	3,096	478	18.3%	48	167	271	486	\$11.11
41-0000	Sales and Related Occupations	88,002	86,365	-1,637	-1.9%	-164	4,253	6,759	10,848	\$14.33
41-1011	First-Line Supervisors of Retail Sales Workers	7,693	7,138	-555	-7.2%	-56	262	514	720	\$18.82
41-1012	First-Line Supervisors of Non-Retail Sales Workers	2,528	2,380	-148	-5.9%	-15	71	146	202	\$38.09
41-2011	Cashiers	16,240	14,275	-1,965	-12.1%	-196	1,298	1,461	2,563	\$11.04
41-2021	Counter and Rental Clerks	1,919	2,073	154	8.0%	15	89	137	241	\$14.28
41-2031	Retail Salespersons	25,859	25,432	-427	-1.7%	-43	1,434	2,118	3,509	\$13.41
41-3011	Advertising Sales Agents	674	615	-59	-8.8%	-6	20	60	74	\$24.04
41-3021	Insurance Sales Agents	3,788	4,123	335	8.8%	34	132	221	387	\$29.03
41-3031	Securities, Commodities, and Financial Services Sales Agents	3,868	4,181	313	8.1%	31	89	254	374	\$37.24
41-3041	Travel Agents	195	173	-22	-11.3%	-2	9	12	19	\$18.03 †
41-3091	Sales Representatives of Services, Except Advertising, Insurance, Financial Services, and Travel	7,199	7,686	487	6.8%	49	187	654	890	\$28.86
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	1,435	1,512	77	5.4%	8	44	100	152	\$48.42

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41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	8,511	8,757	246	2.9%	25	255	583	863	\$30.01
41-9011	Demonstrators and Product Promoters	162	183	21	13.0%	2	19	11	32	\$14.80
41-9022	Real Estate Sales Agents	3,791	3,916	125	3.3%	12	160	169	341	\$17.74
41-9031	Sales Engineers	277	285	8	2.9%	1	6	23	30	\$48.09
41-9041	Telemarketers	1,034	839	-195	-18.9%	-20	43	96	119	\$13.61
41-9099	Sales and Related Workers, All Other	663	652	-11	-1.7%	-1	30	54	83	\$13.84
43-0000	Office and Administrative Support Occupations	148,435	148,250	-185	-0.1%	-18	6,981	9,368	16,331	\$18.30
43-1011	First-Line Supervisors of Office and Administrative Support Workers	10,257	10,407	150	1.5%	15	383	631	1,029	\$29.34
43-2011	Switchboard Operators, Including Answering Service	443	339	-104	-23.5%	-10	20	23	33	\$14.33
43-3011	Bill and Account Collectors	2,159	1,923	-236	-10.9%	-24	75	145	196	\$18.13
43-3021	Billing and Posting Clerks	4,159	4,432	273	6.6%	27	176	264	467	\$18.39
43-3031	Bookkeeping, Accounting, and Auditing Clerks	11,251	11,016	-235	-2.1%	-24	652	568	1,196	\$21.67
43-3051	Payroll and Timekeeping Clerks	848	755	-93	-11.0%	-9	38	44	73	\$22.79
43-3071	Tellers	2,418	2,105	-313	-12.9%	-31	92	142	203	\$14.68
43-3099	Financial Clerks, All Other	712	754	42	5.9%	4	25	52	81	\$23.01
43-4011	Brokerage Clerks	478	460	-18	-3.8%	-2	19	31	48	\$23.43
43-4021	Correspondence Clerks	152	145	-7	-4.6%	-1	6	9	14	\$18.13
43-4031	Court, Municipal, and License Clerks	1,800	2,015	215	11.9%	22	93	96	211	\$22.58
43-4041	Credit Authorizers, Checkers, and Clerks	174	168	-6	-3.5%	-1	6	10	15	\$23.10
43-4051	Customer Service Representatives	31,213	31,309	96	0.3%	10	1,470	2,458	3,938	\$18.02
43-4061	Eligibility Interviewers, Government Programs	968	1,027	59	6.1%	6	37	52	95	\$23.53
43-4071	File Clerks	797	699	-98	-12.3%	-10	40	46	76	\$17.91
43-4081	Hotel, Motel, and Resort Desk Clerks	821	988	167	20.3%	17	52	96	165	\$11.43
43-4111	Interviewers, Except Eligibility and Loan	755	751	-4	-0.5%	0	44	49	93	\$17.95
43-4121	Library Assistants, Clerical	850	856	6	0.7%	1	76	55	132	\$14.27
43-4131	Loan Interviewers and Clerks	2,008	1,995	-13	-0.7%	-1	58	118	175	\$22.69
43-4151	Order Clerks	890	701	-189	-21.2%	-19	34	50	65	\$17.99
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	1,405	1,392	-13	-0.9%	-1	54	85	138	\$18.71
43-4171	Receptionists and Information Clerks	6,922	7,500	578	8.4%	58	402	498	958	\$14.26
43-4199	Information and Record Clerks, All Other	485	512	27	5.6%	3	20	33	56	\$22.26
43-5011	Cargo and Freight Agents	307	340	33	10.8%	3	12	19	34	\$22.44
43-5021	Couriers and Messengers	517	499	-18	-3.5%	-2	21	28	47	\$14.71
43-5031	Police, Fire, and Ambulance Dispatchers	610	668	58	9.5%	6	22	36	64	\$23.26
43-5032	Dispatchers, Except Police, Fire, and Ambulance	1,058	1,142	84	7.9%	8	39	62	109	\$19.30
43-5041	Meter Readers, Utilities	313	286	-27	-8.6%	-3	9	13	19	\$23.19
43-5051	Postal Service Clerks	403	379	-24	-6.0%	-2	18	14	30	\$24.16
43-5052	Postal Service Mail Carriers	1,852	1,743	-109	-5.9%	-11	62	64	115	\$25.21
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	833	746	-87	-10.4%	-9	43	26	60	\$22.25
43-5061	Production, Planning, and Expediting Clerks	3,607	3,962	355	9.8%	36	135	246	417	\$23.21
43-5071	Shipping, Receiving, and Traffic Clerks	8,116	8,245	129	1.6%	13	299	481	793	\$17.91

Columbus Metropolitan Statistical Area
Occupational* Employment Projections Report, 2020-2030

SOC Code	Occupational Title	Employment*		Change in Employment		Annual Openings				Median Wage May 2021
		2020 Annual	2030 Projected	2020-2030	Percent	Growth	Exits	Transfers	Total	
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	339	412	73	21.5%	7	14	21	42	\$20.02
43-6011	Executive Secretaries and Executive Administrative Assistants	4,178	3,329	-849	-20.3%	-85	191	210	316	\$29.49
43-6012	Legal Secretaries	1,109	865	-244	-22.0%	-24	50	55	81	\$22.90
43-6013	Medical Secretaries	6,441	7,297	856	13.3%	86	350	384	820	\$17.98
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	10,279	9,721	-558	-5.4%	-56	509	558	1,011	\$18.42
43-9021	Data Entry Keyers	967	750	-217	-22.4%	-22	38	54	70	\$18.12
43-9022	Word Processors and Typists	192	126	-66	-34.4%	-7	10	9	12	\$18.08
43-9041	Insurance Claims and Policy Processing Clerks	2,618	2,663	45	1.7%	4	93	155	252	\$22.83
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	850	831	-19	-2.2%	-2	42	53	93	\$16.73
43-9061	Office Clerks, General	18,445	18,491	46	0.3%	5	1,008	1,095	2,108	\$18.13
43-9071	Office Machine Operators, Except Computer	1,028	897	-131	-12.7%	-13	50	58	95	\$17.95
43-9199	Office and Administrative Support Workers, All Other	805	866	61	7.6%	6	34	58	98	\$22.58
45-0000	Farming, Fishing, and Forestry Occupations	2,050	2,109	59	2.9%	6	87	236	329	\$15.06
45-1011	First-Line Supervisors of Farming, Fishing, and Forestry Workers	146	151	5	3.4%	0	6	16	22	\$30.40
45-2091	Agricultural Equipment Operators	227	245	18	7.9%	2	10	27	39	\$22.22
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	1,172	1,213	41	3.5%	4	50	136	190	\$15.06
45-2093	Farmworkers, Farm, Ranch, and Aquacultural Animals	259	245	-14	-5.4%	-1	11	29	39	\$14.30
47-0000	Construction and Extraction Occupations	36,233	38,639	2,406	6.6%	241	1,114	2,561	3,916	\$24.07
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	3,246	3,471	225	6.9%	22	95	218	335	\$31.91
47-2021	Brickmasons and Blockmasons	390	383	-7	-1.8%	-1	12	24	35	\$29.77
47-2031	Carpenters	4,067	4,202	135	3.3%	14	121	258	393	\$23.46
47-2044	Tile and Marble Setters	262	291	29	11.1%	3	7	16	26	\$22.47
47-2051	Cement Masons and Concrete Finishers	1,354	1,353	-1	-0.1%	0	33	89	122	\$23.53
47-2061	Construction Laborers	7,790	8,465	675	8.7%	68	240	549	857	\$22.67
47-2071	Paving, Surfacing, and Tamping Equipment Operators	348	383	35	10.1%	4	12	26	42	\$23.37
47-2073	Operating Engineers and Other Construction Equipment Operators	2,375	2,573	198	8.3%	20	81	177	278	\$29.15
47-2111	Electricians	5,704	6,255	551	9.7%	55	174	439	668	\$28.29
47-2121	Glaziers	257	270	13	5.1%	1	7	20	28	\$23.48
47-2141	Painters, Construction and Maintenance	1,214	1,289	75	6.2%	8	38	69	115	\$22.54
47-2151	Pipelayers	154	165	11	7.1%	1	5	12	18	\$22.61
47-2152	Plumbers, Pipefitters, and Steamfitters	2,440	2,565	125	5.1%	12	73	180	265	\$29.77
47-2181	Roofers	816	858	42	5.2%	4	21	58	83	\$23.11
47-2211	Sheet Metal Workers	462	476	14	3.0%	1	13	30	44	\$28.70
47-2221	Structural Iron and Steel Workers	435	460	25	5.8%	2	12	34	48	\$29.09
47-3013	Helpers--Electricians	479	479	0	0.0%	0	14	42	56	\$14.77
47-3015	Helpers--Pipefitters, Plumbers, Pipefitters, and Steamfitters	230	242	12	5.2%	1	7	21	29	\$14.03
47-4011	Construction and Building Inspectors	781	734	-47	-6.0%	-5	41	46	82	\$29.61
47-4041	Hazardous Materials Removal Workers	443	484	41	9.3%	4	18	38	60	\$22.89
47-4051	Highway Maintenance Workers	675	742	67	9.9%	7	28	44	79	\$22.74
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	169	201	32	18.9%	3	6	15	24	\$23.45
47-4090	Miscellaneous Construction and Related Workers	217	249	32	14.8%	3	7	19	29	\$18.12
49-0000	Installation, Maintenance, and Repair Occupations	39,726	42,971	3,245	8.2%	324	1,292	2,604	4,220	\$23.27

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SOC Code	Occupational Title	Employment*		Change in Employment		Annual Openings				Median Wage May 2021
		2020 Annual	2030 Projected	2020-2030	Percent	Growth	Exits	Transfers	Total	
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	3,459	3,740	281	8.1%	28	104	214	346	\$31.28
49-2011	Computer, Automated Teller, and Office Machine Repairers	608	613	5	0.8%	0	18	46	64	\$18.88
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	1,398	1,401	3	0.2%	0	49	107	156	\$29.20
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	486	551	65	13.4%	6	14	26	46	\$29.76
49-2097	Electronic Home Entertainment Equipment Installers and Repairers	109	123	14	12.8%	1	4	8	13	\$22.22
49-2098	Security and Fire Alarm Systems Installers	432	557	125	28.9%	12	12	38	62	\$23.08
49-3021	Automotive Body and Related Repairers	1,014	1,053	39	3.9%	4	33	62	99	\$22.84
49-3023	Automotive Service Technicians and Mechanics	5,080	5,108	28	0.6%	3	151	346	500	\$22.52
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	1,765	1,947	182	10.3%	18	53	116	187	\$23.62
49-3041	Farm Equipment Mechanics and Service Technicians	121	133	12	9.9%	1	4	9	14	\$19.21
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	603	660	57	9.5%	6	19	43	68	\$28.94
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	263	285	22	8.4%	2	12	18	32	\$18.35
49-3093	Tire Repairers and Changers	687	704	17	2.5%	2	21	58	81	\$14.72
49-9011	Mechanical Door Repairers	106	134	28	26.4%	3	3	7	13	\$22.43
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	199	198	-1	-0.5%	0	4	11	15	\$38.18
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	3,010	3,181	171	5.7%	17	79	211	307	\$23.98
49-9031	Home Appliance Repairers	207	210	3	1.5%	0	8	12	20	\$22.79
49-9041	Industrial Machinery Mechanics	2,590	3,175	585	22.6%	58	89	156	303	\$28.83
49-9043	Maintenance Workers, Machinery	441	520	79	17.9%	8	16	26	50	\$23.65
49-9044	Millwrights	406	471	65	16.0%	6	13	25	44	\$36.78
49-9051	Electrical Power-Line Installers and Repairers	1,006	997	-9	-0.9%	-1	19	67	85	\$38.58
49-9052	Telecommunications Line Installers and Repairers	651	676	25	3.8%	2	15	56	73	\$23.04
49-9062	Medical Equipment Repairers	471	524	53	11.3%	5	22	30	57	\$29.05
49-9071	Maintenance and Repair Workers, General	10,078	11,206	1,128	11.2%	113	375	621	1,109	\$22.55
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	178	192	14	7.9%	1	8	13	22	\$18.32
49-9098	Helpers--Installation, Maintenance, and Repair Workers	306	331	25	8.2%	2	14	27	43	\$17.84
49-9099	Installation, Maintenance, and Repair Workers, All Other	942	1,026	84	8.9%	8	35	66	109	\$18.62
51-0000	Production Occupations	53,882	54,808	926	1.7%	93	2,059	3,871	6,023	\$18.19
51-1011	First-Line Supervisors of Production and Operating Workers	3,396	3,564	168	5.0%	17	105	234	356	\$29.58
51-2028	Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	1,274	1,396	122	9.6%	12	54	86	152	\$17.92
51-2041	Structural Metal Fabricators and Fitters	301	260	-41	-13.6%	-4	6	22	24	\$22.55
51-2090	Miscellaneous Assemblers and Fabricators	11,931	12,128	197	1.7%	20	459	858	1,337	\$17.78
51-3011	Bakers	1,081	1,202	121	11.2%	12	64	85	161	\$14.31
51-3021	Butchers and Meat Cutters	609	570	-39	-6.4%	-4	24	44	64	\$14.56
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	158	155	-3	-1.9%	0	6	12	18	\$14.46
51-3092	Food Batchmakers	858	867	9	1.1%	1	40	64	105	\$14.43
51-3099	Food Processing Workers, All Other	113	104	-9	-8.0%	-1	4	7	10	\$14.13
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	529	490	-39	-7.4%	-4	18	31	45	\$18.42
51-4022	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	120	109	-11	-9.2%	-1	4	7	10	\$17.77

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SOC Code	Occupational Title	Employment*		Change in Employment		Annual Openings				Median Wage May 2021
		2020 Annual	2030 Projected	2020-2030	Percent	Growth	Exits	Transfers	Total	
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	1,119	1,112	-7	-0.6%	-1	35	77	111	\$18.09
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	194	193	-1	-0.5%	0	9	13	22	\$17.32
51-4041	Machinists	1,092	1,165	73	6.7%	7	38	77	122	\$19.37
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	1,090	1,049	-41	-3.8%	-4	35	72	103	\$14.90
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	1,185	1,331	146	12.3%	15	41	85	141	\$18.45
51-4111	Tool and Die Makers	563	574	11	2.0%	1	21	36	58	\$24.23
51-4121	Welders, Cutters, Solderers, and Brazers	1,985	2,165	180	9.1%	18	55	164	237	\$22.32
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	161	171	10	6.2%	1	4	13	18	\$21.72
51-4193	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	201	195	-6	-3.0%	-1	6	13	18	\$17.59
51-5111	Prepress Technicians and Workers	210	187	-23	-11.0%	-2	8	19	25	\$22.14
51-5112	Printing Press Operators	1,313	1,223	-90	-6.9%	-9	46	89	126	\$18.51
51-5113	Print Binding and Finishing Workers	321	269	-52	-16.2%	-5	14	18	27	\$14.71
51-6011	Laundry and Dry-Cleaning Workers	1,137	1,304	167	14.7%	17	79	82	178	\$11.63
51-6031	Sewing Machine Operators	650	623	-27	-4.2%	-3	38	34	69	\$14.71
51-7011	Cabinetmakers and Bench Carpenters	441	489	48	10.9%	5	18	26	49	\$18.35
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	431	465	34	7.9%	3	13	32	48	\$17.93
51-8031	Water and Wastewater Treatment Plant and System Operators	557	570	13	2.3%	1	16	35	52	\$23.60
51-9011	Chemical Equipment Operators and Tenders	497	453	-44	-8.9%	-4	10	37	43	\$23.46
51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	534	524	-10	-1.9%	-1	12	41	52	\$19.08
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	1,272	1,313	41	3.2%	4	44	96	144	\$19.27
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	264	262	-2	-0.8%	0	12	20	32	\$18.09
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	724	739	15	2.1%	2	20	54	76	\$22.76
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	3,559	3,167	-392	-11.0%	-39	129	267	357	\$18.16
51-9081	Dental Laboratory Technicians	128	134	6	4.7%	1	6	11	18	\$22.67
51-9111	Packaging and Filling Machine Operators and Tenders	2,506	2,639	133	5.3%	13	106	171	290	\$18.07
51-9124	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	800	855	55	6.9%	6	23	59	88	\$18.73
51-9161	Computer Numerically Controlled Tool Operators	1,008	992	-16	-1.6%	-2	34	74	106	\$18.26
51-9162	Computer Numerically Controlled Tool Programmers	176	230	54	30.7%	5	7	15	27	\$23.21
51-9191	Adhesive Bonding Machine Operators and Tenders	110	110	0	0.0%	0	6	7	13	\$18.40
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	589	621	32	5.4%	3	22	40	65	\$18.12
51-9196	Paper Goods Machine Setters, Operators, and Tenders	800	846	46	5.8%	5	37	55	97	\$18.30
51-9198	Helpers--Production Workers	1,237	1,173	-64	-5.2%	-6	57	114	165	\$17.70
51-9199	Production Workers, All Other	1,009	1,049	40	4.0%	4	35	76	115	\$17.83
53-0000	Transportation and Material Moving Occupations	114,308	133,866	19,558	17.1%	1,956	5,705	10,026	17,687	\$18.18
53-1047	FirstLine Supervisors of Transportation & Material Moving Workers, Exc Aircraft Cargo Handling Supervisor	5,690	6,561	871	15.3%	87	224	425	736	\$23.88

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SOC Code	Occupational Title	Employment*		Change in Employment		Annual Openings				Median Wage May 2021
		2020 Annual	2030 Projected	2020-2030	Percent	Growth	Exits	Transfers	Total	
53-2012	Commercial Pilots	470	469	-1	-0.2%	0	17	33	50	\$129,450 **
53-3031	Driver/Sales Workers	5,890	6,908	1,018	17.3%	102	262	434	798	\$13.98
53-3032	Heavy and Tractor-Trailer Truck Drivers	13,884	15,598	1,714	12.4%	171	604	1,000	1,775	\$23.49
53-3033	Light Truck or Delivery Services Drivers	7,291	8,499	1,208	16.6%	121	323	535	979	\$18.62
53-3052	Bus Drivers, Transit and Intercity	811	945	134	16.5%	13	58	44	115	\$23.60
53-3058	Passenger Vehicle Drivers, Except Bus Drivers, Transit and Intercity	3,591	4,745	1,154	32.1%	115	274	207	596	\$18.05 ^^^
53-6021	Parking Lot Attendants	971	1,067	96	9.9%	10	49	106	165	\$11.62
53-6031	Automotive and Watercraft Service Attendants	975	1,038	63	6.5%	6	46	89	141	\$13.87
53-7021	Crane and Tower Operators	178	186	8	4.5%	1	5	14	20	\$23.84
53-7051	Industrial Truck and Tractor Operators	9,231	11,707	2,476	26.8%	248	315	804	1,367	\$18.93
53-7061	Cleaners of Vehicles and Equipment	1,710	1,840	130	7.6%	13	87	158	258	\$14.23
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	32,216	38,762	6,546	20.3%	655	1,553	3,088	5,296	\$17.89
53-7063	Machine Feeders and Offbearers	582	691	109	18.7%	11	36	47	94	\$22.24
53-7064	Packers and Packagers, Hand	6,041	6,817	776	12.9%	78	366	521	965	\$14.51
53-7065	Stockers and Order Fillers	22,331	25,365	3,034	13.6%	303	1,357	2,326	3,986	\$17.34
53-7081	Refuse and Recyclable Material Collectors	853	964	111	13.0%	11	38	82	131	\$19.05

* Occupations with 100 or more workers.

** Certain occupations only report wages at the annual level.

^ National hourly wage.

^^ National annual wage.

^^^ National aggregate wage.

Wage above max.

▲ Wage not available due to OES/SOC changes.

† Statewide hourly wage.

†† Statewide annual wage.

Source: Ohio Department of Job and Family Services, Bureau of Labor Market Information, June 2023.

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Occupational* Education and Training Classifications, Projections Report, 2020-2030

SOC Code	Occupational Title	Typical Education Needed for Entry	Work Experience in a Related Occupation	Typical On-The-Job Training Needed to Attain Competency in the Occupation	Median Wage May 2021
00-0000	Total, All Occupations				\$22.49
11-0000	Management Occupations				\$48.35
11-1011	Chief Executives	Bachelor's degree	5 years or more	None	\$80.74
11-1021	General and Operations Managers	Bachelor's degree	5 years or more	None	\$47.76
11-1031	Legislators	Bachelor's degree	Less than 5 years	None	\$37,740 **
11-2021	Marketing Managers	Bachelor's degree	5 years or more	None	\$62.06
11-2022	Sales Managers	Bachelor's degree	Less than 5 years	None	\$61.39
11-2030	Public Relations and Fundraising Managers	Bachelor's degree	5 years or more	None	\$57.62 ^
11-3010	Administrative Services and Facilities Managers	Bachelor's degree	Less than 5 years	None	\$47.73 ^
11-3021	Computer and Information Systems Managers	Bachelor's degree	5 years or more	None	\$63.05
11-3031	Financial Managers	Bachelor's degree	5 years or more	None	\$61.39
11-3051	Industrial Production Managers	Bachelor's degree	5 years or more	None	\$48.25
11-3061	Purchasing Managers	Bachelor's degree	5 years or more	None	\$61.30
11-3071	Transportation, Storage, and Distribution Managers	High school diploma or equivalent	5 years or more	None	\$40.97
11-3111	Compensation and Benefits Managers	Bachelor's degree	5 years or more	None	\$61.39
11-3121	Human Resources Managers	Bachelor's degree	5 years or more	None	\$60.88
11-3131	Training and Development Managers	Bachelor's degree	5 years or more	None	\$50.40
11-9021	Construction Managers	Bachelor's degree	None	Moderate-term on-the-job training	\$47.76
11-9031	Education Administrators, Preschool and Childcare Center/Program	Bachelor's degree	Less than 5 years	None	\$22.23
11-9032	Education Administrators, Elementary and Secondary School	Master's degree	5 years or more	None	\$98,340 **
11-9033	Education Administrators, Postsecondary	Master's degree	Less than 5 years	None	\$50.75
11-9039	Education Administrators, All Other	Bachelor's degree	Less than 5 years	None	\$38.56
11-9041	Architectural and Engineering Managers	Bachelor's degree	5 years or more	None	\$63.35
11-9051	Food Service Managers	High school diploma or equivalent	Less than 5 years	None	\$28.63
11-9111	Medical and Health Services Managers	Bachelor's degree	Less than 5 years	None	\$47.78
11-9121	Natural Sciences Managers	Bachelor's degree	5 years or more	None	\$49.32
11-9141	Property, Real Estate, and Community Association Managers	High school diploma or equivalent	Less than 5 years	None	\$22.86
11-9151	Social and Community Service Managers	Bachelor's degree	Less than 5 years	None	\$30.80
11-9198	Personal Service Managers; Entertainment & Recreation Managers, Except Gambling; and Managers, All Other	Bachelor's degree	Less than 5 years	None	\$59.93 ^^^
13-0000	Business and Financial Operations Occupations				\$33.24
13-1020	Buyers and Purchasing Agents	Bachelor's degree	None	Moderate-term on-the-job training	\$30.77
13-1031	Claims Adjusters, Examiners, and Investigators	High school diploma or equivalent	None	Long-term on-the-job training	\$29.60
13-1041	Compliance Officers	Bachelor's degree	None	Moderate-term on-the-job training	\$36.80
13-1051	Cost Estimators	Bachelor's degree	None	Moderate-term on-the-job training	\$30.66
13-1071	Human Resources Specialists	Bachelor's degree	None	None	\$29.42
13-1075	Labor Relations Specialists	Bachelor's degree	Less than 5 years	None	\$38.78
13-1081	Logisticians	Bachelor's degree	None	None	\$37.24
13-1111	Management Analysts	Bachelor's degree	Less than 5 years	None	\$38.17
13-1121	Meeting, Convention, and Event Planners	Bachelor's degree	None	None	\$28.95
13-1131	Fundraisers	Bachelor's degree	None	None	\$29.16
13-1141	Compensation, Benefits, and Job Analysis Specialists	Bachelor's degree	Less than 5 years	None	\$29.36
13-1151	Training and Development Specialists	Bachelor's degree	Less than 5 years	None	\$24.03

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Occupational* Education and Training Classifications, Projections Report, 2020-2030

SOC Code	Occupational Title	Typical Education Needed for Entry	Work Experience in a Related Occupation	Typical On-The-Job Training Needed to Attain Competency in the Occupation	Median Wage May 2021
13-1161	Market Research Analysts and Marketing Specialists	Bachelor's degree	None	None	\$30.06
13-1198	Project Management Specialists and Business Operations Specialists, All Other	Bachelor's degree	None	None	\$35.90 ^{^^^}
13-2011	Accountants and Auditors	Bachelor's degree	None	None	\$36.81
13-2020	Property Appraisers and Assessors	Bachelor's degree	None	Long-term on-the-job training	\$37.24
13-2031	Budget Analysts	Bachelor's degree	None	None	\$38.93
13-2041	Credit Analysts	Bachelor's degree	None	None	\$31.43
13-2052	Personal Financial Advisors	Bachelor's degree	None	Long-term on-the-job training	\$39.70
13-2053	Insurance Underwriters	Bachelor's degree	None	Moderate-term on-the-job training	\$37.21
13-2061	Financial Examiners	Bachelor's degree	None	Long-term on-the-job training	\$37.24
13-2072	Loan Officers	Bachelor's degree	Less than 5 years	Moderate-term on-the-job training	\$30.37
13-2081	Tax Examiners and Collectors, and Revenue Agents	Bachelor's degree	None	Moderate-term on-the-job training	\$30.51
13-2098	Financial and Investment Analysts, Financial Risk Specialists, and Financial Specialists, All Other	Bachelor's degree	None	None	\$35.21 ^{^^^}
15-0000	Computer and Mathematical Occupations				\$39.69
15-1211	Computer Systems Analysts	Bachelor's degree	None	None	\$47.34
15-1212	Information Security Analysts	Bachelor's degree	Less than 5 years	None	\$47.79
15-1231	Computer Network Support Specialists	Associate's degree	None	None	\$30.12
15-1232	Computer User Support Specialists	Some college, no degree	None	None	\$23.12
15-1244	Network and Computer Systems Administrators	Bachelor's degree	None	None	\$38.85
15-1245	Database Administrators and Architects	Bachelor's degree	None	None	\$47.44 ^{^^^}
15-1251	Computer Programmers	Bachelor's degree	None	None	\$39.18
15-1256	Software Developers and Software Quality Assurance Analysts and Testers	Bachelor's degree	None	None	\$49.49 ^{^^^}
15-1257	Web Developers and Digital Interface Designers	Bachelor's degree	None	None	\$49.49 ^{^^^}
15-1299	Computer Occupations, All Other	Bachelor's degree	None	None	\$47.76
15-2011	Actuaries	Bachelor's degree	None	Long-term on-the-job training	\$48.54
15-2031	Operations Research Analysts	Bachelor's degree	None	None	\$41.22
15-2098	Data Scientists and Mathematical Science Occupations, All Other	Bachelor's degree	None	None	\$30.03 ^{^^^}
17-0000	Architecture and Engineering Occupations				\$37.40
17-1011	Architects, Except Landscape and Naval	Bachelor's degree	None	Internship/residency	\$37.45
17-1022	Surveyors	Bachelor's degree	None	Internship/residency	\$29.68
17-2011	Aerospace Engineers	Bachelor's degree	None	None	\$49.05
17-2031	Biomedical Engineers	Bachelor's degree	None	None	\$47.49
17-2041	Chemical Engineers	Bachelor's degree	None	None	\$46.88
17-2051	Civil Engineers	Bachelor's degree	None	None	\$38.00
17-2061	Computer Hardware Engineers	Bachelor's degree	None	None	\$37.62
17-2071	Electrical Engineers	Bachelor's degree	None	None	\$47.38
17-2072	Electronics Engineers, Except Computer	Bachelor's degree	None	None	\$46.19
17-2081	Environmental Engineers	Bachelor's degree	None	None	\$38.58
17-2112	Industrial Engineers	Bachelor's degree	None	None	\$38.98
17-2131	Materials Engineers	Bachelor's degree	None	None	\$39.19
17-2141	Mechanical Engineers	Bachelor's degree	None	None	\$38.07
17-2199	Engineers, All Other	Bachelor's degree	None	None	\$38.97
17-3011	Architectural and Civil Drafters	Associate's degree	None	None	\$29.02

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17-3012	Electrical and Electronics Drafters	Associate's degree	None	None	\$29.02
17-3013	Mechanical Drafters	Associate's degree	None	None	\$29.19
17-3019	Drafters, All Other	Associate's degree	None	None	\$23.08
17-3022	Civil Engineering Technicians	Associate's degree	None	None	\$29.03
17-3023	Electrical and Electronics Engineering Technicians	Associate's degree	None	None	\$31.99
17-3025	Environmental Engineering Technicians	Associate's degree	None	None	\$18.14
17-3026	Industrial Engineering Technicians	Associate's degree	None	None	\$28.95
17-3027	Mechanical Engineering Technicians	Associate's degree	None	None	\$29.49
17-3031	Surveying and Mapping Technicians	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.64
17-3098	Calibration and Engineering Technologists and Technicians, Except Drafters, All Other	Associate's degree	None	None	\$29.18 ^{^^^}
19-0000	Life, Physical, and Social Science Occupations				\$31.29
19-1012	Food Scientists and Technologists	Bachelor's degree	None	None	\$39.40
19-1041	Epidemiologists	Master's degree	None	None	\$37.38
19-1042	Medical Scientists, Except Epidemiologists	Doctoral or professional degree	None	None	\$37.32
19-2031	Chemists	Bachelor's degree	None	None	\$37.16
19-2041	Environmental Scientists and Specialists, Including Health	Bachelor's degree	None	None	\$39.27
19-2043	Hydrologists	Bachelor's degree	None	None	\$39.53
19-2099	Physical Scientists, All Other	Bachelor's degree	None	None	\$39.27
19-3031	Clinical, Counseling, and School Psychologists	Doctoral or professional degree	None	Internship/residency	\$38.96 ^{^^^}
19-3039	Psychologists, All Other	Master's degree	None	Internship/residency	\$51.16
19-3051	Urban and Regional Planners	Master's degree	None	None	\$29.97
19-3099	Social Scientists and Related Workers, All Other	Bachelor's degree	None	None	\$39.53
19-4021	Biological Technicians	Bachelor's degree	None	None	\$23.03
19-4031	Chemical Technicians	Associate's degree	None	Moderate-term on-the-job training	\$24.17
19-4042	Environmental Science and Protection Technicians, Including Health	Associate's degree	None	None	\$17.76
19-4061	Social Science Research Assistants	Bachelor's degree	None	None	\$30.36
19-4092	Forensic Science Technicians	Bachelor's degree	None	Moderate-term on-the-job training	\$30.89
19-4099	Life, Physical, and Social Science Technicians, All Other	Associate's degree	None	None	\$24.11
19-5011	Occupational Health and Safety Specialists	Bachelor's degree	None	None	\$37.98
19-5012	Occupational Health and Safety Technicians	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.73
21-0000	Community and Social Service Occupations				\$23.37
21-1012	Educational, Guidance, School, and Vocational Counselors	Master's degree	None	None	\$29.66
21-1015	Rehabilitation Counselors	Master's degree	None	None	\$18.72
21-1018	Substance Abuse, Behavioral Disorder, and Mental Health Counselors	Bachelor's degree	None	None	\$23.51
21-1021	Child, Family, and School Social Workers	Bachelor's degree	None	None	\$23.41
21-1022	Healthcare Social Workers	Master's degree	None	Internship/residency	\$29.64
21-1023	Mental Health and Substance Abuse Social Workers	Master's degree	None	Internship/residency	\$23.41
21-1029	Social Workers, All Other	Bachelor's degree	None	None	\$28.73
21-1091	Health Educators	Bachelor's degree	None	None	\$29.29
21-1092	Probation Officers and Correctional Treatment Specialists	Bachelor's degree	None	Short-term on-the-job training	\$28.97
21-1093	Social and Human Service Assistants	High school diploma or equivalent	None	Short-term on-the-job training	\$18.14
21-1094	Community Health Workers	High school diploma or equivalent	None	Short-term on-the-job training	\$17.95

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21-1099	Community and Social Service Specialists, All Other	Bachelor's degree	None	None	\$28.86
21-2011	Clergy	Bachelor's degree	None	Moderate-term on-the-job training	\$23.96
23-0000	Legal Occupations				\$36.98
23-1011	Lawyers	Doctoral or professional degree	None	None	\$49.85
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	Doctoral or professional degree	5 years or more	Short-term on-the-job training	\$30.49
23-1023	Judges, Magistrate Judges, and Magistrates	Doctoral or professional degree	5 years or more	Short-term on-the-job training	\$39.31
23-2011	Paralegals and Legal Assistants	Associate's degree	None	None	\$23.00
23-2093	Title Examiners, Abstractors, and Searchers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.39
23-2099	Legal Support Workers, All Other	Associate's degree	None	None	\$28.73
25-0000	Education, Training, and Library Occupations				\$29.38
25-1011	Business Teachers, Postsecondary	Doctoral or professional degree	None	None	\$100,530 **
25-1021	Computer Science Teachers, Postsecondary	Doctoral or professional degree	None	None	\$101,110 **
25-1022	Mathematical Science Teachers, Postsecondary	Doctoral or professional degree	None	None	\$79,330 **
25-1042	Biological Science Teachers, Postsecondary	Doctoral or professional degree	None	None	\$98,210 **
25-1052	Chemistry Teachers, Postsecondary	Doctoral or professional degree	None	None	\$79,150 **
25-1054	Physics Teachers, Postsecondary	Doctoral or professional degree	None	None	\$95,910 **
25-1066	Psychology Teachers, Postsecondary	Doctoral or professional degree	None	None	\$95,910 **
25-1069	Social Sciences Teachers, Postsecondary, All Other	Doctoral or professional degree	None	None	\$77,540 **
25-1072	Nursing Instructors and Teachers, Postsecondary	Doctoral or professional degree	Less than 5 years	None	\$80,070 **
25-1081	Education Teachers, Postsecondary	Doctoral or professional degree	Less than 5 years	None	\$62,850 **
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	Doctoral or professional degree	None	None	\$75,840 **
25-1112	Law Teachers, Postsecondary	Doctoral or professional degree	Less than 5 years	None	\$117,010 ††
25-1113	Social Work Teachers, Postsecondary	Doctoral or professional degree	None	None	\$78,570 **
25-1121	Art, Drama, and Music Teachers, Postsecondary	Master's degree	None	None	\$78,730 **
25-1122	Communications Teachers, Postsecondary	Doctoral or professional degree	None	None	\$79,520 **
25-1123	English Language and Literature Teachers, Postsecondary	Doctoral or professional degree	None	None	\$75,930 **
25-1124	Foreign Language and Literature Teachers, Postsecondary	Doctoral or professional degree	None	None	\$78,570 **
25-1125	History Teachers, Postsecondary	Doctoral or professional degree	None	None	\$82,650 **
25-1126	Philosophy and Religion Teachers, Postsecondary	Doctoral or professional degree	None	None	\$79,900 **
25-1193	Recreation and Fitness Studies Teachers, Postsecondary	Doctoral or professional degree	None	None	\$79,270 **
25-1194	Vocational Education Teachers, Postsecondary	Bachelor's degree	Less than 5 years	None	\$22.94
25-2011	Preschool Teachers, Except Special Education	Associate's degree	None	None	\$13.97
25-2012	Kindergarten Teachers, Except Special Education	Bachelor's degree	None	None	\$63,170 **
25-2021	Elementary School Teachers, Except Special Education	Bachelor's degree	None	None	\$76,880 **
25-2022	Middle School Teachers, Except Special and Career/Technical Education	Bachelor's degree	None	None	\$63,670 **
25-2031	Secondary School Teachers, Except Special and Career/Technical Education	Bachelor's degree	None	None	\$76,000 **
25-2032	Career/Technical Education Teachers, Secondary School	Bachelor's degree	Less than 5 years	None	\$63,330 **
25-2051	Special Education Teachers, Preschool	Bachelor's degree	None	None	\$62,420 **
25-2052	Special Education Teachers, Kindergarten and Elementary School	Bachelor's degree	None	None	\$76,880 **
25-2057	Special Education Teachers, Middle School	Bachelor's degree	None	None	\$61,150 **
25-2058	Special Education Teachers, Secondary School	Bachelor's degree	None	None	\$62,670 **
25-3011	Adult Basic and Secondary Education and Literacy Teachers and Instructors	Bachelor's degree	None	None	\$29.72
25-3021	Self-Enrichment Education Teachers	High school diploma or equivalent	Less than 5 years	None	\$14.39

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25-3031	Substitute Teachers, Short-Term	Bachelor's degree	None	None	\$13.73
25-3097	Teachers and Instructors, All Other, Except Substitute Teachers	Bachelor's degree	None	None	\$17.94 ^^^
25-4022	Librarians and Media Collections Specialists	Master's degree	None	None	\$29.15
25-4031	Library Technicians	Postsecondary non-degree award	None	None	\$18.27
25-9031	Instructional Coordinators	Master's degree	5 years or more	None	\$30.13
25-9044	Teaching Assistants, Postsecondary	Bachelor's degree	None	None	\$31,550 **
25-9045	Teaching Assistants, Except Postsecondary	Some college, no degree	None	None	\$28,850 **
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations				\$23.89
27-1011	Art Directors	Bachelor's degree	5 years or more	None	\$42.39
27-1014	Multimedia Artists and Animators	Bachelor's degree	None	None	\$37.88 ^
27-1021	Commercial and Industrial Designers	Bachelor's degree	None	None	\$30.65
27-1023	Floral Designers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$14.17
27-1024	Graphic Designers	Bachelor's degree	None	None	\$24.78
27-1025	Interior Designers	Bachelor's degree	None	None	\$28.82
27-1026	Merchandise Displayers and Window Trimmers	High school diploma or equivalent	None	Short-term on-the-job training	\$14.65
27-2012	Producers and Directors	Bachelor's degree	Less than 5 years	None	\$29.24
27-2022	Coaches and Scouts	Bachelor's degree	None	None	\$38,070 **
27-2041	Music Directors and Composers	Bachelor's degree	Less than 5 years	None	\$32.87
27-3011	Radio and Television Announcers	Bachelor's degree	None	None	\$14.11
27-3023	News Analysts, Reporters, and Journalists	Bachelor's degree	None	None	\$19.95
27-3031	Public Relations Specialists	Bachelor's degree	None	None	\$30.20
27-3041	Editors	Bachelor's degree	Less than 5 years	None	\$30.16
27-3042	Technical Writers	Bachelor's degree	Less than 5 years	Short-term on-the-job training	\$31.60
27-3043	Writers and Authors	Bachelor's degree	None	Long-term on-the-job training	\$24.16
27-3091	Interpreters and Translators	Bachelor's degree	None	None	\$18.74
27-4011	Audio and Video Equipment Technicians	Postsecondary non-degree award	None	Short-term on-the-job training	\$23.32
27-4012	Broadcast Technicians	Associate's degree	None	Short-term on-the-job training	\$23.03
27-4021	Photographers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.07
29-0000	Healthcare Practitioners and Technical Occupations				\$30.19
29-1011	Chiropractors	Doctoral or professional degree	None	None	\$29.34
29-1021	Dentists, General	Doctoral or professional degree	None	None	\$80.68
29-1031	Dietitians and Nutritionists	Bachelor's degree	None	Internship/residency	\$29.43
29-1041	Optometrists	Doctoral or professional degree	None	None	\$49.29
29-1051	Pharmacists	Doctoral or professional degree	None	None	\$61.90
29-1071	Physician Assistants	Master's degree	None	None	\$49.32
29-1122	Occupational Therapists	Master's degree	None	None	\$39.62
29-1123	Physical Therapists	Doctoral or professional degree	None	None	\$47.76
29-1125	Recreational Therapists	Bachelor's degree	None	None	\$22.99
29-1126	Respiratory Therapists	Associate's degree	None	None	\$29.87
29-1127	Speech-Language Pathologists	Master's degree	None	Internship/residency	\$38.21
29-1128	Exercise Physiologists	Bachelor's degree	None	None	\$14.21
29-1129	Therapists, All Other	Bachelor's degree	None	None	\$36.16
29-1131	Veterinarians	Doctoral or professional degree	None	None	\$48.05

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29-1141	Registered Nurses	Bachelor's degree	None	None	\$36.16
29-1151	Nurse Anesthetists	Master's degree	None	None	\$81.39
29-1171	Nurse Practitioners	Master's degree	None	None	\$49.63
29-1211	Anesthesiologists	Doctoral or professional degree	None	Internship/residency	#
29-1215	Family Medicine Physicians	Doctoral or professional degree	None	Internship/residency	\$81.94
29-1216	General Internal Medicine Physicians	Doctoral or professional degree	None	Internship/residency	\$85.12
29-1218	Obstetricians and Gynecologists	Doctoral or professional degree	None	Internship/residency	\$81.57
29-1223	Psychiatrists	Doctoral or professional degree	None	Internship/residency	#
29-1228	Physicians, All Other; and Ophthalmologists, Except Pediatric	Doctoral or professional degree	None	Internship/residency	\$37.45 ^^^
29-1248	Surgeons, Except Ophthalmologists	Doctoral or professional degree	None	Internship/residency	# ^
29-1292	Dental Hygienists	Associate's degree	None	None	\$37.13
29-1298	Acupuncturists and Healthcare Diagnosing or Treating Practitioners, All Other	Master's degree	None	None	\$37.45 ^^^
29-2010	Clinical Laboratory Technologists and Technicians	Bachelor's degree	None	None	\$23.94
29-2031	Cardiovascular Technologists and Technicians	Associate's degree	None	None	\$29.90
29-2032	Diagnostic Medical Sonographers	Associate's degree	None	None	\$31.31
29-2033	Nuclear Medicine Technologists	Associate's degree	None	None	\$38.23
29-2034	Radiologic Technologists	Associate's degree	None	None	\$28.74
29-2035	Magnetic Resonance Imaging Technologists	Associate's degree	Less than 5 years	None	\$37.24
29-2040	Emergency Medical Technicians and Paramedics	Postsecondary non-degree award	None	None	\$17.76 ^
29-2051	Dietetic Technicians	Associate's degree	None	None	\$17.63
29-2052	Pharmacy Technicians	High school diploma or equivalent	None	Moderate-term on-the-job training	\$17.63
29-2053	Psychiatric Technicians	Postsecondary non-degree award	Less than 5 years	Short-term on-the-job training	\$14.26
29-2055	Surgical Technologists	Postsecondary non-degree award	None	None	\$23.15
29-2056	Veterinary Technologists and Technicians	Associate's degree	None	None	\$17.59
29-2057	Ophthalmic Medical Technicians	Postsecondary non-degree award	None	None	\$17.62
29-2061	Licensed Practical and Licensed Vocational Nurses	Postsecondary non-degree award	None	None	\$23.08
29-2081	Opticians, Dispensing	High school diploma or equivalent	None	Long-term on-the-job training	\$21.77
29-2091	Orthotists and Prosthetists	Master's degree	None	Internship/residency	\$28.68
29-2098	Medical Dosimetrists, Medical Records Specialists, and Health Technologists and Technicians, All Other	Postsecondary non-degree award	None	None	\$22.55 ^^^
29-9091	Athletic Trainers	Bachelor's degree	None	None	\$48,390 **
29-9098	Health Information Technologists, Medical Registrars, Surgical Assistants, & Healthcare Practitioners, AO	Postsecondary non-degree award	None	None	\$26.19 ^^^
31-0000	Healthcare Support Occupations				\$14.21
31-1120	Home Health and Personal Care Aides	High school diploma or equivalent	None	Short-term on-the-job training	\$11.55
31-1131	Nursing Assistants	Postsecondary non-degree award	None	None	\$14.45
31-1132	Orderlies	High school diploma or equivalent	None	Short-term on-the-job training	\$14.14
31-1133	Psychiatric Aides	High school diploma or equivalent	None	Short-term on-the-job training	\$18.34
31-2011	Occupational Therapy Assistants	Associate's degree	None	None	\$29.98
31-2021	Physical Therapist Assistants	Associate's degree	None	None	\$30.09
31-9011	Massage Therapists	Postsecondary non-degree award	None	None	\$23.15
31-9091	Dental Assistants	Postsecondary non-degree award	None	None	\$22.61
31-9092	Medical Assistants	Postsecondary non-degree award	None	None	\$17.96

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31-9093	Medical Equipment Preparers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.23
31-9094	Medical Transcriptionists	Postsecondary non-degree award	None	None	\$18.37
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	High school diploma or equivalent	None	Short-term on-the-job training	\$14.28
31-9097	Phlebotomists	Postsecondary non-degree award	None	None	\$17.89
31-9099	Healthcare Support Workers, All Other	High school diploma or equivalent	None	None	\$18.39
33-0000	Protective Service Occupations				\$23.04
33-1012	First-Line Supervisors of Police and Detectives	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training	\$47.76
33-1021	First-Line Supervisors of Fire Fighting and Prevention Workers	Postsecondary non-degree award	Less than 5 years	Moderate-term on-the-job training	\$39.15
33-1090	Miscellaneous First-Line Supervisors, Protective Service Workers	High school diploma or equivalent	Less than 5 years	None	\$25.23 ^
33-2011	Firefighters	Postsecondary non-degree award	None	Long-term on-the-job training	\$29.12
33-3011	Bailiffs	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.01
33-3012	Correctional Officers and Jailers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.04
33-3021	Detectives and Criminal Investigators	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training	\$37.66
33-3051	Police and Sheriff's Patrol Officers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$37.76
33-9021	Private Detectives and Investigators	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training	\$23.95
33-9032	Security Guards	High school diploma or equivalent	None	Short-term on-the-job training	\$14.14
33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	No formal educational credential	None	Short-term on-the-job training	\$10.85
33-9093	Transportation Security Screeners	High school diploma or equivalent	None	Short-term on-the-job training	\$21.65 †
33-9098	School Bus Monitors and Protective Service Workers, All Other	High school diploma or equivalent	None	Short-term on-the-job training	\$15.11 ^^^
35-0000	Food Preparation and Serving Related Occupations				\$11.31
35-1011	Chefs and Head Cooks	High school diploma or equivalent	5 years or more	None	\$24.91
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	High school diploma or equivalent	Less than 5 years	None	\$17.59
35-2011	Cooks, Fast Food	No formal educational credential	None	Short-term on-the-job training	\$11.35
35-2012	Cooks, Institution and Cafeteria	No formal educational credential	None	Short-term on-the-job training	\$14.38
35-2014	Cooks, Restaurant	No formal educational credential	Less than 5 years	Moderate-term on-the-job training	\$14.10
35-2015	Cooks, Short Order	No formal educational credential	None	Short-term on-the-job training	\$12.47
35-2021	Food Preparation Workers	No formal educational credential	None	Short-term on-the-job training	\$12.30
35-3011	Bartenders	No formal educational credential	None	Short-term on-the-job training	\$10.16
35-3023	Fast Food and Counter Workers	No formal educational credential	None	Short-term on-the-job training	\$10.79
35-3031	Waiters and Waitresses	No formal educational credential	None	Short-term on-the-job training	\$10.05
35-3041	Food Servers, Nonrestaurant	No formal educational credential	None	Short-term on-the-job training	\$12.98
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	No formal educational credential	None	Short-term on-the-job training	\$11.18
35-9021	Dishwashers	No formal educational credential	None	Short-term on-the-job training	\$11.27
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	No formal educational credential	None	Short-term on-the-job training	\$10.99
35-9099	Food Preparation and Serving Related Workers, All Other	No formal educational credential	None	Short-term on-the-job training	\$11.52
37-0000	Building and Grounds Cleaning and Maintenance Occupations				\$14.41
37-1011	First-Line Supervisors of Housekeeping and Janitorial Workers	High school diploma or equivalent	Less than 5 years	None	\$19.54
37-1012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	High school diploma or equivalent	Less than 5 years	None	\$23.36
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	No formal educational credential	None	Short-term on-the-job training	\$14.18
37-2012	Maids and Housekeeping Cleaners	No formal educational credential	None	Short-term on-the-job training	\$13.12
37-3011	Landscaping and Groundskeeping Workers	No formal educational credential	None	Short-term on-the-job training	\$14.94
39-0000	Personal Care and Service Occupations				\$12.83
39-2011	Animal Trainers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$14.32

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39-2021	Nonfarm Animal Caretakers	High school diploma or equivalent	None	Short-term on-the-job training	\$11.09
39-3031	Ushers, Lobby Attendants, and Ticket Takers	No formal educational credential	None	Short-term on-the-job training	\$11.50
39-3091	Amusement and Recreation Attendants	No formal educational credential	None	Short-term on-the-job training	\$10.75
39-3093	Locker Room, Coatroom, and Dressing Room Attendants	High school diploma or equivalent	None	Short-term on-the-job training	\$14.05
39-4021	Funeral Attendants	High school diploma or equivalent	None	Short-term on-the-job training	\$14.08 †
39-5012	Hairdressers, Hairstylists, and Cosmetologists	Postsecondary non-degree award	None	None	\$14.05
39-5094	Skincare Specialists	Postsecondary non-degree award	None	None	\$18.05
39-6012	Concierges	High school diploma or equivalent	None	Moderate-term on-the-job training	\$13.94
39-7010	Tour and Travel Guides	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.66
39-9011	Childcare Workers	High school diploma or equivalent	None	Short-term on-the-job training	\$11.29
39-9031	Fitness Trainers and Aerobics Instructors	High school diploma or equivalent	None	Short-term on-the-job training	\$17.19
39-9032	Recreation Workers	High school diploma or equivalent	None	Short-term on-the-job training	\$11.11
41-0000	Sales and Related Occupations				\$14.33
41-1011	First-Line Supervisors of Retail Sales Workers	High school diploma or equivalent	Less than 5 years	None	\$18.82
41-1012	First-Line Supervisors of Non-Retail Sales Workers	High school diploma or equivalent	Less than 5 years	None	\$38.09
41-2011	Cashiers	No formal educational credential	None	Short-term on-the-job training	\$11.04
41-2021	Counter and Rental Clerks	No formal educational credential	None	Short-term on-the-job training	\$14.28
41-2031	Retail Salespersons	No formal educational credential	None	Short-term on-the-job training	\$13.41
41-3011	Advertising Sales Agents	High school diploma or equivalent	None	Moderate-term on-the-job training	\$24.04
41-3021	Insurance Sales Agents	High school diploma or equivalent	None	Moderate-term on-the-job training	\$29.03
41-3031	Securities, Commodities, and Financial Services Sales Agents	Bachelor's degree	None	Moderate-term on-the-job training	\$37.24
41-3041	Travel Agents	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.03 †
41-3091	Sales Representatives of Services, Except Advertising, Insurance, Financial Services, and Travel	High school diploma or equivalent	None	Moderate-term on-the-job training	\$28.86
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	Bachelor's degree	None	Moderate-term on-the-job training	\$48.42
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	High school diploma or equivalent	None	Moderate-term on-the-job training	\$30.01
41-9011	Demonstrators and Product Promoters	No formal educational credential	None	Short-term on-the-job training	\$14.80
41-9022	Real Estate Sales Agents	High school diploma or equivalent	None	Moderate-term on-the-job training	\$17.74
41-9031	Sales Engineers	Bachelor's degree	None	Moderate-term on-the-job training	\$48.09
41-9041	Telemarketers	No formal educational credential	None	Short-term on-the-job training	\$13.61
41-9099	Sales and Related Workers, All Other	High school diploma or equivalent	None	None	\$13.84
43-0000	Office and Administrative Support Occupations				\$18.30
43-1011	First-Line Supervisors of Office and Administrative Support Workers	High school diploma or equivalent	Less than 5 years	None	\$29.34
43-2011	Switchboard Operators, Including Answering Service	High school diploma or equivalent	None	Short-term on-the-job training	\$14.33
43-3011	Bill and Account Collectors	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.13
43-3021	Billing and Posting Clerks	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.39
43-3031	Bookkeeping, Accounting, and Auditing Clerks	Some college, no degree	None	Moderate-term on-the-job training	\$21.67
43-3051	Payroll and Timekeeping Clerks	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.79
43-3071	Tellers	High school diploma or equivalent	None	Short-term on-the-job training	\$14.68
43-3099	Financial Clerks, All Other	High school diploma or equivalent	None	Short-term on-the-job training	\$23.01
43-4011	Brokerage Clerks	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.43

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43-4021	Correspondence Clerks	High school diploma or equivalent	None	Short-term on-the-job training	\$18.13
43-4031	Court, Municipal, and License Clerks	High school diploma or equivalent	None	Long-term on-the-job training	\$22.58
43-4041	Credit Authorizers, Checkers, and Clerks	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.10
43-4051	Customer Service Representatives	High school diploma or equivalent	None	Short-term on-the-job training	\$18.02
43-4061	Eligibility Interviewers, Government Programs	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.53
43-4071	File Clerks	High school diploma or equivalent	None	Short-term on-the-job training	\$17.91
43-4081	Hotel, Motel, and Resort Desk Clerks	High school diploma or equivalent	None	Short-term on-the-job training	\$11.43
43-4111	Interviewers, Except Eligibility and Loan	High school diploma or equivalent	None	Short-term on-the-job training	\$17.95
43-4121	Library Assistants, Clerical	High school diploma or equivalent	None	Short-term on-the-job training	\$14.27
43-4131	Loan Interviewers and Clerks	High school diploma or equivalent	None	Short-term on-the-job training	\$22.69
43-4151	Order Clerks	Some college, no degree	None	Short-term on-the-job training	\$17.99
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	Associate's degree	None	None	\$18.71
43-4171	Receptionists and Information Clerks	High school diploma or equivalent	None	Short-term on-the-job training	\$14.26
43-4199	Information and Record Clerks, All Other	High school diploma or equivalent	None	Short-term on-the-job training	\$22.26
43-5011	Cargo and Freight Agents	High school diploma or equivalent	None	Short-term on-the-job training	\$22.44
43-5021	Couriers and Messengers	High school diploma or equivalent	None	Short-term on-the-job training	\$14.71
43-5031	Police, Fire, and Ambulance Dispatchers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.26
43-5032	Dispatchers, Except Police, Fire, and Ambulance	High school diploma or equivalent	None	Moderate-term on-the-job training	\$19.30
43-5041	Meter Readers, Utilities	High school diploma or equivalent	None	Short-term on-the-job training	\$23.19
43-5051	Postal Service Clerks	High school diploma or equivalent	None	Short-term on-the-job training	\$24.16
43-5052	Postal Service Mail Carriers	High school diploma or equivalent	None	Short-term on-the-job training	\$25.21
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	High school diploma or equivalent	None	Short-term on-the-job training	\$22.25
43-5061	Production, Planning, and Expediting Clerks	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.21
43-5071	Shipping, Receiving, and Traffic Clerks	High school diploma or equivalent	None	Short-term on-the-job training	\$17.91
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	High school diploma or equivalent	None	Short-term on-the-job training	\$20.02
43-6011	Executive Secretaries and Executive Administrative Assistants	High school diploma or equivalent	Less than 5 years	None	\$29.49
43-6012	Legal Secretaries	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.90
43-6013	Medical Secretaries	High school diploma or equivalent	None	Moderate-term on-the-job training	\$17.98
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	High school diploma or equivalent	None	Short-term on-the-job training	\$18.42
43-9021	Data Entry Keyers	High school diploma or equivalent	None	Short-term on-the-job training	\$18.12
43-9022	Word Processors and Typists	High school diploma or equivalent	None	Short-term on-the-job training	\$18.08
43-9041	Insurance Claims and Policy Processing Clerks	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.83
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	High school diploma or equivalent	None	Short-term on-the-job training	\$16.73
43-9061	Office Clerks, General	High school diploma or equivalent	None	Short-term on-the-job training	\$18.13
43-9071	Office Machine Operators, Except Computer	High school diploma or equivalent	None	Short-term on-the-job training	\$17.95
43-9199	Office and Administrative Support Workers, All Other	High school diploma or equivalent	None	Short-term on-the-job training	\$22.58
45-0000	Farming, Fishing, and Forestry Occupations				\$15.06
45-1011	First-Line Supervisors of Farming, Fishing, and Forestry Workers	High school diploma or equivalent	Less than 5 years	None	\$30.40
45-2091	Agricultural Equipment Operators	No formal educational credential	None	Moderate-term on-the-job training	\$22.22
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	No formal educational credential	None	Short-term on-the-job training	\$15.06
45-2093	Farmworkers, Farm, Ranch, and Aquacultural Animals	No formal educational credential	None	Short-term on-the-job training	\$14.30
47-0000	Construction and Extraction Occupations				\$24.07
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	High school diploma or equivalent	5 years or more	None	\$31.91

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47-2021	Brickmasons and Blockmasons	High school diploma or equivalent	None	Apprenticeship	\$29.77
47-2031	Carpenters	High school diploma or equivalent	None	Apprenticeship	\$23.46
47-2044	Tile and Marble Setters	No formal educational credential	None	Long-term on-the-job training	\$22.47
47-2051	Cement Masons and Concrete Finishers	No formal educational credential	None	Moderate-term on-the-job training	\$23.53
47-2061	Construction Laborers	No formal educational credential	None	Short-term on-the-job training	\$22.67
47-2071	Paving, Surfacing, and Tamping Equipment Operators	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.37
47-2073	Operating Engineers and Other Construction Equipment Operators	High school diploma or equivalent	None	Moderate-term on-the-job training	\$29.15
47-2111	Electricians	High school diploma or equivalent	None	Apprenticeship	\$28.29
47-2121	Glaziers	High school diploma or equivalent	None	Apprenticeship	\$23.48
47-2141	Painters, Construction and Maintenance	No formal educational credential	None	Moderate-term on-the-job training	\$22.54
47-2151	Pipelayers	No formal educational credential	None	Short-term on-the-job training	\$22.61
47-2152	Plumbers, Pipefitters, and Steamfitters	High school diploma or equivalent	None	Apprenticeship	\$29.77
47-2181	Roofers	No formal educational credential	None	Moderate-term on-the-job training	\$23.11
47-2211	Sheet Metal Workers	High school diploma or equivalent	None	Apprenticeship	\$28.70
47-2221	Structural Iron and Steel Workers	High school diploma or equivalent	None	Apprenticeship	\$29.09
47-3013	Helpers--Electricians	High school diploma or equivalent	None	Short-term on-the-job training	\$14.77
47-3015	Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters	High school diploma or equivalent	None	Short-term on-the-job training	\$14.03
47-4011	Construction and Building Inspectors	High school diploma or equivalent	5 years or more	Moderate-term on-the-job training	\$29.61
47-4041	Hazardous Materials Removal Workers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.89
47-4051	Highway Maintenance Workers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.74
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.45
47-4090	Miscellaneous Construction and Related Workers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.12
49-0000	Installation, Maintenance, and Repair Occupations				\$23.27
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	High school diploma or equivalent	Less than 5 years	None	\$31.28
49-2011	Computer, Automated Teller, and Office Machine Repairers	Some college, no degree	None	Short-term on-the-job training	\$18.88
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	Postsecondary non-degree award	None	Moderate-term on-the-job training	\$29.20
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	Postsecondary non-degree award	None	Long-term on-the-job training	\$29.76
49-2097	Electronic Home Entertainment Equipment Installers and Repairers	Postsecondary non-degree award	None	Short-term on-the-job training	\$22.22
49-2098	Security and Fire Alarm Systems Installers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.08
49-3021	Automotive Body and Related Repairers	High school diploma or equivalent	None	Long-term on-the-job training	\$22.84
49-3023	Automotive Service Technicians and Mechanics	Postsecondary non-degree award	None	Short-term on-the-job training	\$22.52
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	High school diploma or equivalent	None	Long-term on-the-job training	\$23.62
49-3041	Farm Equipment Mechanics and Service Technicians	High school diploma or equivalent	None	Long-term on-the-job training	\$19.21
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	High school diploma or equivalent	None	Long-term on-the-job training	\$28.94
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.35
49-3093	Tire Repairers and Changers	High school diploma or equivalent	None	Short-term on-the-job training	\$14.72
49-9011	Mechanical Door Repairers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.43
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	High school diploma or equivalent	None	Moderate-term on-the-job training	\$38.18
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	Postsecondary non-degree award	None	Long-term on-the-job training	\$23.98
49-9031	Home Appliance Repairers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.79
49-9041	Industrial Machinery Mechanics	High school diploma or equivalent	None	Long-term on-the-job training	\$28.83
49-9043	Maintenance Workers, Machinery	High school diploma or equivalent	None	Long-term on-the-job training	\$23.65
49-9044	Millwrights	High school diploma or equivalent	None	Apprenticeship	\$36.78

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49-9051	Electrical Power-Line Installers and Repairers	High school diploma or equivalent	None	Long-term on-the-job training	\$38.58
49-9052	Telecommunications Line Installers and Repairers	High school diploma or equivalent	None	Long-term on-the-job training	\$23.04
49-9062	Medical Equipment Repairers	Associate's degree	None	Moderate-term on-the-job training	\$29.05
49-9071	Maintenance and Repair Workers, General	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.55
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	High school diploma or equivalent	None	Short-term on-the-job training	\$18.32
49-9098	Helpers--Installation, Maintenance, and Repair Workers	High school diploma or equivalent	None	Short-term on-the-job training	\$17.84
49-9099	Installation, Maintenance, and Repair Workers, All Other	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.62
51-0000	Production Occupations				\$18.19
51-1011	First-Line Supervisors of Production and Operating Workers	High school diploma or equivalent	Less than 5 years	None	\$29.58
51-2028	Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$17.92
51-2041	Structural Metal Fabricators and Fitters	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.55
51-2090	Miscellaneous Assemblers and Fabricators	High school diploma or equivalent	None	Moderate-term on-the-job training	\$17.78
51-3011	Bakers	No formal educational credential	None	Long-term on-the-job training	\$14.31
51-3021	Butchers and Meat Cutters	No formal educational credential	None	Long-term on-the-job training	\$14.56
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	No formal educational credential	None	Short-term on-the-job training	\$14.46
51-3092	Food Batchmakers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$14.43
51-3099	Food Processing Workers, All Other	No formal educational credential	None	Moderate-term on-the-job training	\$14.13
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.42
51-4022	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	High school diploma or equivalent	None	Moderate-term on-the-job training	\$17.77
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.09
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	High school diploma or equivalent	None	Moderate-term on-the-job training	\$17.32
51-4041	Machinists	High school diploma or equivalent	None	Long-term on-the-job training	\$19.37
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	High school diploma or equivalent	None	Moderate-term on-the-job training	\$14.90
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.45
51-4111	Tool and Die Makers	Postsecondary non-degree award	None	Long-term on-the-job training	\$24.23
51-4121	Welders, Cutters, Solderers, and Brazers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.32
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$21.72
51-4193	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	High school diploma or equivalent	None	Moderate-term on-the-job training	\$17.59
51-5111	Prepress Technicians and Workers	Postsecondary non-degree award	None	None	\$22.14
51-5112	Printing Press Operators	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.51
51-5113	Print Binding and Finishing Workers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$14.71
51-6011	Laundry and Dry-Cleaning Workers	No formal educational credential	None	Short-term on-the-job training	\$11.63
51-6031	Sewing Machine Operators	No formal educational credential	None	Short-term on-the-job training	\$14.71
51-7011	Cabinetmakers and Bench Carpenters	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.35
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	High school diploma or equivalent	None	Moderate-term on-the-job training	\$17.93
51-8031	Water and Wastewater Treatment Plant and System Operators	High school diploma or equivalent	None	Long-term on-the-job training	\$23.60
51-9011	Chemical Equipment Operators and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.46

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51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$19.08
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$19.27
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.09
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.76
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.16
51-9081	Dental Laboratory Technicians	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.67
51-9111	Packaging and Filling Machine Operators and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.07
51-9124	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.73
51-9161	Computer Numerically Controlled Tool Operators	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.26
51-9162	Computer Numerically Controlled Tool Programmers	Postsecondary non-degree award	None	Moderate-term on-the-job training	\$23.21
51-9191	Adhesive Bonding Machine Operators and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.40
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	High school diploma or equivalent	None	Long-term on-the-job training	\$18.12
51-9196	Paper Goods Machine Setters, Operators, and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.30
51-9198	Helpers--Production Workers	High school diploma or equivalent	None	Short-term on-the-job training	\$17.70
51-9199	Production Workers, All Other	High school diploma or equivalent	None	Moderate-term on-the-job training	\$17.83
53-0000	Transportation and Material Moving Occupations				\$18.18
53-1047	FirstLine Supervisors of Transportation & Material Moving Workers, Exc Aircraft Cargo Handling Supervisor	High school diploma or equivalent	Less than 5 years	None	\$23.88
53-2012	Commercial Pilots	High school diploma or equivalent	None	Moderate-term on-the-job training	\$129,450 **
53-3031	Driver/Sales Workers	High school diploma or equivalent	None	Short-term on-the-job training	\$13.98
53-3032	Heavy and Tractor-Trailer Truck Drivers	Postsecondary non-degree award	None	Short-term on-the-job training	\$23.49
53-3033	Light Truck or Delivery Services Drivers	High school diploma or equivalent	None	Short-term on-the-job training	\$18.62
53-3052	Bus Drivers, Transit and Intercity	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.60
53-3058	Passenger Vehicle Drivers, Except Bus Drivers, Transit and Intercity	No formal educational credential	None	Short-term on-the-job training	\$18.05 ^^^
53-6021	Parking Lot Attendants	No formal educational credential	None	Short-term on-the-job training	\$11.62
53-6031	Automotive and Watercraft Service Attendants	No formal educational credential	None	Short-term on-the-job training	\$13.87
53-7021	Crane and Tower Operators	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training	\$23.84
53-7051	Industrial Truck and Tractor Operators	No formal educational credential	None	Short-term on-the-job training	\$18.93
53-7061	Cleaners of Vehicles and Equipment	No formal educational credential	None	Short-term on-the-job training	\$14.23
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	No formal educational credential	None	Short-term on-the-job training	\$17.89
53-7063	Machine Feeders and Offbearers	No formal educational credential	None	Short-term on-the-job training	\$22.24
53-7064	Packers and Packagers, Hand	No formal educational credential	None	Short-term on-the-job training	\$14.51
53-7065	Stockers and Order Fillers	High school diploma or equivalent	None	Short-term on-the-job training	\$17.34
53-7081	Refuse and Recyclable Material Collectors	No formal educational credential	None	Short-term on-the-job training	\$19.05

* Occupations with 100 or more workers.

** Certain occupations only report wages at the annual level.

^ National hourly wage.

^^ National annual wage.

^^^ National aggregate wage.

Wage above max.

▲ Wage not available due to OES/SOC changes.

† Statewide hourly wage.

†† Statewide annual wage.

Source: Ohio Department of Job and Family Services, Bureau of Labor Market Information, June 2023.

Bureau of Labor Market Information Business Principles for Workforce Development

- Partner with the workforce and economic development community.
- Develop and deploy new information solution tools and systems for the workforce and economic development community.
- Provide products and services that are customer- and demand-driven.
- Be known as an important and reliable source for information solutions that support workforce development goals and outcomes.

Acknowledgments: The Workforce Research Section produced this report under the direction of Labor Market Bureau Chief, Byron Archer. To view other publications, access data or provide feedback, visit <http://OhioLMI.com> or contact the Ohio Bureau of Labor Market Information at (614) 752-9494 or ContactLMI@jfs.ohio.gov.

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