



2030 Job Outlook

Cleveland-Elyria Metropolitan Statistical Area

Cuyahoga, Geauga, Lake, Lorain, and Medina 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.

Cleveland-Elyria 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	1,027,279	1,073,551	46,272	4.5%	4,627	44,257	67,909	116,793	\$22.47
11-0000	Management Occupations	57,790	62,262	4,472	7.7%	447	1,598	3,174	5,219	\$48.68
11-1011	Chief Executives	1,371	1,254	-117	-8.5%	-12	36	53	77	#
11-1021	General and Operations Managers	13,057	13,961	904	6.9%	90	270	838	1,198	\$47.93
11-1031	Legislators	514	536	22	4.3%	2	12	26	40	\$36,940 **
11-2021	Marketing Managers	1,307	1,394	87	6.7%	9	27	85	121	\$61.50
11-2022	Sales Managers	2,506	2,635	129	5.2%	13	51	162	226	\$61.39
11-2030	Public Relations and Fundraising Managers	469	519	50	10.7%	5	13	28	46	\$57.62 ^
11-3010	Administrative Services and Facilities Managers	2,018	2,144	126	6.2%	13	59	104	176	\$47.73 ^
11-3021	Computer and Information Systems Managers	2,764	3,015	251	9.1%	25	47	164	236	\$62.92
11-3031	Financial Managers	5,220	6,017	797	15.3%	80	115	282	477	\$61.73
11-3051	Industrial Production Managers	2,225	2,316	91	4.1%	9	44	107	160	\$49.67
11-3061	Purchasing Managers	493	520	27	5.5%	3	11	27	41	\$57.76
11-3071	Transportation, Storage, and Distribution Managers	1,038	1,154	116	11.2%	12	21	60	93	\$47.08
11-3121	Human Resources Managers	833	902	69	8.3%	7	20	48	75	\$60.69
11-3131	Training and Development Managers	174	190	16	9.2%	2	4	12	18	\$57.76
11-9021	Construction Managers	1,612	1,767	155	9.6%	16	35	86	137	\$47.35
11-9031	Education Administrators, Preschool and Childcare Center/Program	424	465	41	9.7%	4	11	21	36	\$22.55
11-9032	Education Administrators, Elementary and Secondary School	1,855	1,942	87	4.7%	9	47	88	144	\$97,940 **
11-9033	Education Administrators, Postsecondary	552	574	22	4.0%	2	14	26	42	\$38.34
11-9039	Education Administrators, All Other	146	158	12	8.2%	1	4	7	12	\$31.91
11-9041	Architectural and Engineering Managers	1,145	1,179	34	3.0%	3	21	59	83	\$69.09
11-9051	Food Service Managers	2,150	2,436	286	13.3%	29	70	183	282	\$23.97
11-9111	Medical and Health Services Managers	2,561	3,218	657	25.7%	66	72	147	285	\$50.42
11-9121	Natural Sciences Managers	100	103	3	3.0%	0	2	5	7	\$48.37
11-9141	Property, Real Estate, and Community Association Managers	3,339	3,366	27	0.8%	3	127	126	256	\$28.30
11-9151	Social and Community Service Managers	1,031	1,172	141	13.7%	14	33	59	106	\$30.54
11-9198	Personal Service Managers; Entertainment & Recreation Managers, Except Gambling; and Managers, All Other	2,838	3,035	197	6.9%	20	68	144	232	\$59.93 ^^^
13-0000	Business and Financial Operations Occupations	68,179	72,175	3,996	5.9%	400	1,821	4,095	6,316	\$31.90
13-1020	Buyers and Purchasing Agents	3,317	3,112	-205	-6.2%	-20	109	206	295	\$30.30
13-1031	Claims Adjusters, Examiners, and Investigators	2,711	2,610	-101	-3.7%	-10	63	138	191	\$32.53
13-1041	Compliance Officers	1,610	1,724	114	7.1%	11	40	89	140	\$32.61
13-1051	Cost Estimators	1,448	1,431	-17	-1.2%	-2	41	87	126	\$31.20
13-1071	Human Resources Specialists	5,505	6,096	591	10.7%	59	157	386	602	\$29.31
13-1075	Labor Relations Specialists	746	687	-59	-7.9%	-6	19	48	61	\$38.98
13-1081	Logisticians	1,110	1,454	344	31.0%	34	27	83	144	\$31.08
13-1111	Management Analysts	5,131	5,722	591	11.5%	59	174	312	545	\$38.39
13-1121	Meeting, Convention, and Event Planners	825	928	103	12.5%	10	26	64	100	\$23.73
13-1131	Fundraisers	1,108	1,217	109	9.8%	11	36	74	121	\$29.89
13-1141	Compensation, Benefits, and Job Analysis Specialists	622	683	61	9.8%	6	20	38	64	\$30.41

Cleveland-Elyria 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	
13-1151	Training and Development Specialists	2,479	2,692	213	8.6%	21	78	158	257	\$29.24
13-1161	Market Research Analysts and Marketing Specialists	5,240	6,183	943	18.0%	94	135	417	646	\$29.74
13-1198	Project Management Specialists and Business Operations Specialists, All Other	11,044	11,539	495	4.5%	50	262	554	866	\$35.90 ^^^
13-2011	Accountants and Auditors	11,389	11,819	430	3.8%	43	323	687	1,053	\$37.14
13-2020	Property Appraisers and Assessors	161	164	3	1.9%	0	6	6	12	\$31.25
13-2031	Budget Analysts	245	255	10	4.1%	1	6	13	20	\$38.49
13-2041	Credit Analysts	858	793	-65	-7.6%	-6	14	55	63	\$38.40
13-2052	Personal Financial Advisors	2,635	2,745	110	4.2%	11	61	132	204	\$47.76
13-2061	Financial Examiners	1,260	1,539	279	22.1%	28	37	65	130	\$35.02
13-2071	Credit Counselors	130	144	14	10.8%	1	3	8	12	\$23.28
13-2072	Loan Officers	2,536	2,454	-82	-3.2%	-8	54	136	182	\$30.10
13-2082	Tax Preparers	345	335	-10	-2.9%	-1	19	19	37	\$15.59
13-2098	Financial and Investment Analysts, Financial Risk Specialists, and Financial Specialists, All Other	3,598	3,758	160	4.5%	16	64	210	290	\$35.21 ^^^
15-0000	Computer and Mathematical Occupations	33,692	38,052	4,360	12.9%	436	742	1,768	2,946	\$38.65
15-1211	Computer Systems Analysts	6,262	6,856	594	9.5%	59	128	323	510	\$47.43
15-1212	Information Security Analysts	725	952	227	31.3%	23	13	46	82	\$47.76
15-1231	Computer Network Support Specialists	1,516	1,616	100	6.6%	10	29	83	122	\$29.50
15-1232	Computer User Support Specialists	3,914	4,239	325	8.3%	32	77	216	325	\$23.26
15-1241	Computer Network Architects	1,164	1,190	26	2.2%	3	16	54	73	\$49.57
15-1244	Network and Computer Systems Administrators	2,266	2,323	57	2.5%	6	38	108	152	\$38.66
15-1245	Database Administrators and Architects	939	1,001	62	6.6%	6	22	48	76	\$47.44 ^^^
15-1251	Computer Programmers	925	838	-87	-9.4%	-9	18	40	49	\$30.18
15-1256	Software Developers and Software Quality Assurance Analysts and Testers	11,228	13,545	2,317	20.6%	232	287	607	1,126	\$49.49 ^^^
15-1257	Web Developers and Digital Interface Designers	950	1,037	87	9.2%	9	23	49	81	\$49.49 ^^^
15-1299	Computer Occupations, All Other	2,142	2,345	203	9.5%	20	52	110	182	\$42.70
15-2011	Actuaries	243	301	58	23.9%	6	4	11	21	\$48.98
15-2031	Operations Research Analysts	892	1,121	229	25.7%	23	22	44	89	\$38.41
15-2098	Data Scientists and Mathematical Science Occupations, All Other	317	412	95	30.0%	10	7	18	35	\$30.03 ^^^
17-0000	Architecture and Engineering Occupations	16,137	16,845	708	4.4%	71	383	763	1,217	\$38.04
17-1011	Architects, Except Landscape and Naval	763	779	16	2.1%	2	21	33	56	\$37.72
17-1022	Surveyors	237	240	3	1.3%	0	8	12	20	\$30.19
17-2011	Aerospace Engineers	589	651	62	10.5%	6	13	21	40	\$60.00
17-2031	Biomedical Engineers	168	173	5	3.0%	0	4	7	11	\$45.82
17-2041	Chemical Engineers	334	366	32	9.6%	3	7	13	23	\$47.76
17-2051	Civil Engineers	1,343	1,438	95	7.1%	10	28	69	107	\$38.87
17-2061	Computer Hardware Engineers	155	158	3	1.9%	0	3	7	10	\$50.79
17-2071	Electrical Engineers	1,098	1,160	62	5.7%	6	27	45	78	\$47.00
17-2072	Electronics Engineers, Except Computer	456	475	19	4.2%	2	11	19	32	\$47.07
17-2081	Environmental Engineers	158	165	7	4.4%	1	4	8	13	\$61.11
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	112	117	5	4.5%	0	2	5	7	\$46.83

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		2020 Annual	2030 Projected	2020-2030	Percent	Growth	Exits	Transfers	Total	
17-2112	Industrial Engineers	2,386	2,670	284	11.9%	28	55	101	184	\$39.06
17-2131	Materials Engineers	359	375	16	4.5%	2	7	14	23	\$38.84
17-2141	Mechanical Engineers	2,700	2,862	162	6.0%	16	48	114	178	\$38.16
17-2199	Engineers, All Other	1,257	1,279	22	1.8%	2	27	52	81	\$47.74
17-3011	Architectural and Civil Drafters	405	394	-11	-2.7%	-1	12	25	36	\$25.71
17-3013	Mechanical Drafters	362	338	-24	-6.6%	-2	11	22	31	\$29.02
17-3019	Drafters, All Other	118	106	-12	-10.2%	-1	3	7	9	\$29.32
17-3022	Civil Engineering Technicians	148	149	1	0.7%	0	4	9	13	\$29.47
17-3023	Electrical and Electronics Engineering Technicians	485	472	-13	-2.7%	-1	14	29	42	\$31.99
17-3024	Electro-Mechanical Technicians	147	142	-5	-3.4%	0	4	9	13	\$23.04
17-3026	Industrial Engineering Technicians	531	545	14	2.6%	1	16	33	50	\$29.07
17-3027	Mechanical Engineering Technicians	548	560	12	2.2%	1	17	34	52	\$29.02
17-3031	Surveying and Mapping Technicians	138	138	0	0.0%	0	5	12	17	\$23.00
17-3098	Calibration and Engineering Technologists and Technicians, Except Drafters, All Other	507	523	16	3.2%	2	16	32	50	\$29.18 ^{^^^}
19-0000	Life, Physical, and Social Science Occupations	8,052	8,533	481	6.0%	48	172	582	802	\$31.58
19-1031	Conservation Scientists	214	223	9	4.2%	1	4	16	21	\$22.86
19-1042	Medical Scientists, Except Epidemiologists	1,218	1,337	119	9.8%	12	17	74	103	\$38.23
19-2031	Chemists	816	866	50	6.1%	5	12	62	79	\$38.05
19-2041	Environmental Scientists and Specialists, Including Health	147	159	12	8.2%	1	2	12	15	\$30.88
19-3031	Clinical, Counseling, and School Psychologists	763	834	71	9.3%	7	21	31	59	\$38.96 ^{^^^}
19-3039	Psychologists, All Other	303	304	1	0.3%	0	8	12	20	\$50.77
19-3051	Urban and Regional Planners	159	167	8	5.0%	1	3	11	15	\$31.20
19-3099	Social Scientists and Related Workers, All Other	130	143	13	10.0%	1	3	9	13	\$38.86
19-4021	Biological Technicians	1,101	1,164	63	5.7%	6	27	113	146	\$23.84
19-4031	Chemical Technicians	624	641	17	2.7%	2	11	57	70	\$24.42
19-4042	Environmental Science and Protection Technicians, Including Health	190	207	17	9.0%	2	5	19	26	\$22.96
19-4061	Social Science Research Assistants	130	135	5	3.9%	0	4	12	16	\$29.97
19-4092	Forensic Science Technicians	100	115	15	15.0%	2	3	10	15	\$29.61
19-4099	Life, Physical, and Social Science Technicians, All Other	305	319	14	4.6%	1	8	29	38	\$27.72
19-5011	Occupational Health and Safety Specialists	681	710	29	4.3%	3	19	30	52	\$37.98
19-5012	Occupational Health and Safety Technicians	101	111	10	9.9%	1	3	5	9	\$24.28
21-0000	Community and Social Service Occupations	18,515	20,364	1,849	10.0%	185	668	1,251	2,104	\$23.38
21-1012	Educational, Guidance, School, and Vocational Counselors	1,944	2,133	189	9.7%	19	66	121	206	\$29.74
21-1015	Rehabilitation Counselors	524	601	77	14.7%	8	18	33	59	\$18.99
21-1018	Substance Abuse, Behavioral Disorder, and Mental Health Counselors	1,499	1,827	328	21.9%	33	54	98	185	\$22.86
21-1021	Child, Family, and School Social Workers	2,540	2,838	298	11.7%	30	75	170	275	\$23.72
21-1022	Healthcare Social Workers	1,250	1,345	95	7.6%	10	36	82	128	\$30.46
21-1023	Mental Health and Substance Abuse Social Workers	1,254	1,453	199	15.9%	20	38	86	144	\$23.01
21-1029	Social Workers, All Other	721	775	54	7.5%	5	21	47	73	\$28.97
21-1091	Health Educators	440	471	31	7.1%	3	16	31	50	\$29.86

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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	
21-1092	Probation Officers and Correctional Treatment Specialists	380	381	1	0.3%	0	8	23	31	\$28.97
21-1093	Social and Human Service Assistants	3,416	3,797	381	11.2%	38	144	272	454	\$18.03
21-1094	Community Health Workers	337	406	69	20.5%	7	13	26	46	\$18.60
21-1099	Community and Social Service Specialists, All Other	311	332	21	6.8%	2	11	22	35	\$23.51
21-2011	Clergy	2,940	3,012	72	2.5%	7	122	172	301	\$28.99
23-0000	Legal Occupations	10,804	11,464	660	6.1%	66	318	465	849	\$37.40
23-1011	Lawyers	5,717	6,074	357	6.2%	36	128	145	309	\$53.46
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	145	148	3	2.1%	0	3	4	7	\$58.46
23-1023	Judges, Magistrate Judges, and Magistrates	416	423	7	1.7%	1	9	10	20	\$49.63
23-2011	Paralegals and Legal Assistants	3,810	4,110	300	7.9%	30	153	267	450	\$23.05
23-2093	Title Examiners, Abstractors, and Searchers	399	381	-18	-4.5%	-2	14	23	35	\$23.52
23-2099	Legal Support Workers, All Other	193	198	5	2.6%	0	7	12	19	\$26.65
25-0000	Education, Training, and Library Occupations	51,678	55,120	3,442	6.7%	344	2,074	2,394	4,812	\$29.52
25-1011	Business Teachers, Postsecondary	513	541	28	5.5%	3	24	25	52	\$61,400 **
25-1021	Computer Science Teachers, Postsecondary	132	136	4	3.0%	0	6	6	12	\$79,930 **
25-1022	Mathematical Science Teachers, Postsecondary	226	237	11	4.9%	1	10	11	22	\$77,450 **
25-1042	Biological Science Teachers, Postsecondary	211	234	23	10.9%	2	10	10	22	\$64,390 **
25-1052	Chemistry Teachers, Postsecondary	119	126	7	5.9%	1	6	6	13	\$77,450 **
25-1066	Psychology Teachers, Postsecondary	215	233	18	8.4%	2	10	10	22	\$80,260 **
25-1071	Health Specialties Teachers, Postsecondary	423	497	74	17.5%	7	21	22	50	\$107,630 ††
25-1072	Nursing Instructors and Teachers, Postsecondary	689	824	135	19.6%	14	34	35	83	\$76,390 **
25-1081	Education Teachers, Postsecondary	389	416	27	6.9%	3	18	19	40	\$49,100 **
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	148	159	11	7.4%	1	7	7	15	\$47,730 **
25-1121	Art, Drama, and Music Teachers, Postsecondary	836	937	101	12.1%	10	40	41	91	\$63,740 **
25-1122	Communications Teachers, Postsecondary	110	117	7	6.4%	1	5	5	11	\$77,950 **
25-1123	English Language and Literature Teachers, Postsecondary	305	319	14	4.6%	1	14	15	30	\$77,320 **
25-1124	Foreign Language and Literature Teachers, Postsecondary	157	165	8	5.1%	1	7	8	16	\$62,570 **
25-1125	History Teachers, Postsecondary	100	107	7	7.0%	1	5	5	11	\$79,880 **
25-1126	Philosophy and Religion Teachers, Postsecondary	215	233	18	8.4%	2	10	10	22	\$80,580 **
25-1193	Recreation and Fitness Studies Teachers, Postsecondary	103	108	5	4.9%	0	5	5	10	\$61,750 **
25-1194	Vocational Education Teachers, Postsecondary	435	454	19	4.4%	2	20	21	43	\$24.27
25-1199	Postsecondary Teachers, All Other	1,002	977	-25	-2.5%	-2	44	46	88	\$76,290 **
25-2011	Preschool Teachers, Except Special Education	2,608	3,122	514	19.7%	51	118	167	336	\$14.03
25-2012	Kindergarten Teachers, Except Special Education	531	557	26	4.9%	3	22	32	57	\$60,750 **
25-2021	Elementary School Teachers, Except Special Education	9,649	10,035	386	4.0%	39	302	394	735	\$76,880 **
25-2022	Middle School Teachers, Except Special and Career/Technical Education	6,458	6,718	260	4.0%	26	202	264	492	\$77,650 **
25-2031	Secondary School Teachers, Except Special and Career/Technical Education	6,574	6,877	303	4.6%	30	178	273	481	\$78,310 **
25-2052	Special Education Teachers, Kindergarten and Elementary School	998	1,049	51	5.1%	5	33	41	79	\$76,870 **
25-2057	Special Education Teachers, Middle School	786	818	32	4.1%	3	26	32	61	\$62,420 **
25-2058	Special Education Teachers, Secondary School	896	960	64	7.1%	6	30	37	73	\$62,070 **
25-3021	Self-Enrichment Education Teachers	1,885	2,259	374	19.8%	37	124	111	272	\$17.20

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		2020 Annual	2030 Projected	2020-2030	Percent	Growth	Exits	Transfers	Total	
25-3031	Substitute Teachers, Short-Term	689	757	68	9.9%	7	43	39	89	\$14.46
25-3097	Teachers and Instructors, All Other, Except Substitute Teachers	1,671	1,855	184	11.0%	18	105	94	217	\$17.94 ^^^
25-4022	Librarians and Media Collections Specialists	884	927	43	4.9%	4	45	40	89	\$29.72
25-4031	Library Technicians	637	606	-31	-4.9%	-3	51	38	86	\$18.13
25-9031	Instructional Coordinators	879	921	42	4.8%	4	44	39	87	\$30.61
25-9044	Teaching Assistants, Postsecondary	196	200	4	2.0%	0	9	9	18	\$19,160 **
25-9045	Teaching Assistants, Except Postsecondary	7,730	8,248	518	6.7%	52	357	373	782	\$29,270 **
25-9099	Education, Training, and Library Workers, All Other	452	465	13	2.9%	1	23	20	44	\$17.74
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations	15,066	16,174	1,108	7.4%	111	610	998	1,719	\$23.61
27-1011	Art Directors	412	443	31	7.5%	3	21	22	46	\$37.80
27-1013	Fine Artists, Including Painters, Sculptors, and Illustrators	134	157	23	17.2%	2	7	8	17	\$23.42
27-1021	Commercial and Industrial Designers	239	251	12	5.0%	1	8	15	24	\$30.86
27-1023	Floral Designers	315	237	-78	-24.8%	-8	8	16	16	\$14.11
27-1024	Graphic Designers	1,777	1,653	-124	-7.0%	-12	52	102	142	\$23.53
27-1025	Interior Designers	862	851	-11	-1.3%	-1	26	51	76	\$28.99
27-1026	Merchandise Displayers and Window Trimmers	781	793	12	1.5%	1	24	47	72	\$14.79
27-1027	Set and Exhibit Designers	129	124	-5	-3.9%	0	4	8	12	\$28.36 †
27-2012	Producers and Directors	384	430	46	12.0%	5	9	26	40	\$29.97
27-2022	Coaches and Scouts	2,179	2,501	322	14.8%	32	133	188	353	\$38,940 **
27-2041	Music Directors and Composers	383	391	8	2.1%	1	23	22	46	\$30.08
27-2042	Musicians and Singers	1,012	1,093	81	8.0%	8	62	59	129	\$60.65
27-3011	Radio and Television Announcers	155	159	4	2.6%	0	6	9	15	\$17.08
27-3023	News Analysts, Reporters, and Journalists	355	357	2	0.6%	0	11	27	38	\$23.16
27-3031	Public Relations Specialists	1,419	1,511	92	6.5%	9	37	96	142	\$30.45
27-3041	Editors	458	445	-13	-2.8%	-1	15	28	42	\$29.79
27-3042	Technical Writers	192	208	16	8.3%	2	5	12	19	\$30.73
27-3043	Writers and Authors	592	598	6	1.0%	1	24	33	58	\$22.71
27-3091	Interpreters and Translators	544	676	132	24.3%	13	24	33	70	\$23.33
27-4011	Audio and Video Equipment Technicians	460	550	90	19.6%	9	13	37	59	\$22.55
27-4012	Broadcast Technicians	171	179	8	4.7%	1	5	13	19	\$29.41
27-4021	Photographers	677	781	104	15.4%	10	25	41	76	\$19.86
29-0000	Healthcare Practitioners and Technical Occupations	79,508	84,596	5,088	6.4%	509	2,078	2,445	5,032	\$31.40
29-1011	Chiropractors	493	495	2	0.4%	0	7	4	11	\$37.24
29-1021	Dentists, General	899	859	-40	-4.5%	-4	16	7	19	\$78.68
29-1031	Dietitians and Nutritionists	535	564	29	5.4%	3	18	19	40	\$30.08
29-1041	Optometrists	256	255	-1	-0.4%	0	4	3	7	\$49.78
29-1051	Pharmacists	2,796	2,762	-34	-1.2%	-3	51	53	101	\$63.02
29-1071	Physician Assistants	1,948	2,521	573	29.4%	57	35	88	180	\$58.18
29-1122	Occupational Therapists	1,316	1,459	143	10.9%	14	30	45	89	\$40.20
29-1123	Physical Therapists	2,119	2,381	262	12.4%	26	44	47	117	\$48.11
29-1124	Radiation Therapists	192	205	13	6.8%	1	4	6	11	\$39.80

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29-1125	Recreational Therapists	184	184	0	0.0%	0	6	8	14	\$23.11
29-1126	Respiratory Therapists	1,413	1,718	305	21.6%	30	34	40	104	\$30.73
29-1127	Speech-Language Pathologists	1,144	1,397	253	22.1%	25	30	46	101	\$40.07
29-1131	Veterinarians	289	330	41	14.2%	4	5	5	14	\$48.37
29-1141	Registered Nurses	26,837	28,359	1,522	5.7%	152	736	694	1,582	\$37.53
29-1151	Nurse Anesthetists	790	823	33	4.2%	3	16	24	43	\$83.13
29-1171	Nurse Practitioners	1,365	1,979	614	45.0%	61	35	52	148	\$51.19
29-1211	Anesthesiologists	350	337	-13	-3.7%	-1	6	4	9	#
29-1215	Family Medicine Physicians	223	223	0	0.0%	0	4	2	6	\$41.23
29-1216	General Internal Medicine Physicians	457	393	-64	-14.0%	-6	7	5	6	#
29-1218	Obstetricians and Gynecologists	141	141	0	0.0%	0	2	2	4	#
29-1221	Pediatricians, General	310	303	-7	-2.3%	-1	5	4	8	#
29-1292	Dental Hygienists	2,115	2,083	-32	-1.5%	-3	75	53	125	\$37.05
29-1298	Acupuncturists and Healthcare Diagnosing or Treating Practitioners, All Other	310	326	16	5.2%	2	14	5	21	\$37.45 ^^^
29-2010	Clinical Laboratory Technologists and Technicians	2,425	2,575	150	6.2%	15	64	93	172	\$29.26
29-2031	Cardiovascular Technologists and Technicians	518	555	37	7.1%	4	15	23	42	\$30.81
29-2032	Diagnostic Medical Sonographers	731	837	106	14.5%	11	21	34	66	\$37.24
29-2033	Nuclear Medicine Technologists	183	194	11	6.0%	1	5	8	14	\$38.65
29-2034	Radiologic Technologists	1,887	1,990	103	5.5%	10	53	83	146	\$30.24
29-2035	Magnetic Resonance Imaging Technologists	316	329	13	4.1%	1	9	14	24	\$37.83
29-2040	Emergency Medical Technicians and Paramedics	1,655	1,619	-36	-2.2%	-4	30	76	102	\$17.76 ^
29-2051	Dietetic Technicians	208	220	12	5.8%	1	6	9	16	\$17.60
29-2052	Pharmacy Technicians	3,018	3,140	122	4.0%	12	84	132	228	\$17.77
29-2053	Psychiatric Technicians	228	266	38	16.7%	4	7	11	22	\$17.87
29-2055	Surgical Technologists	783	835	52	6.6%	5	22	35	62	\$23.97
29-2056	Veterinary Technologists and Technicians	506	573	67	13.2%	7	15	23	45	\$17.91
29-2057	Ophthalmic Medical Technicians	572	592	20	3.5%	2	16	25	43	\$17.87
29-2061	Licensed Practical and Licensed Vocational Nurses	7,656	7,878	222	2.9%	22	262	324	608	\$23.49
29-2081	Opticians, Dispensing	717	760	43	6.0%	4	31	25	60	\$22.03
29-2091	Orthotists and Prosthetists	328	343	15	4.6%	2	9	14	25	\$37.80
29-2098	Medical Dosimetrists, Medical Records Specialists, and Health Technologists and Technicians, All Other	3,944	4,165	221	5.6%	22	111	174	307	\$22.55 ^^^
29-9098	Health Information Technologists, Medical Registrars, Surgical Assistants, & Healthcare Practitioners, AO	560	599	39	7.0%	4	16	25	45	\$26.19 ^^^
31-0000	Healthcare Support Occupations	45,194	50,166	4,972	11.0%	497	2,811	2,925	6,233	\$14.30
31-1120	Home Health and Personal Care Aides	19,490	22,780	3,290	16.9%	329	1,353	1,197	2,879	\$11.49
31-1131	Nursing Assistants	12,935	13,231	296	2.3%	30	838	741	1,609	\$14.91
31-1132	Orderlies	552	587	35	6.3%	4	36	32	72	\$14.25
31-2011	Occupational Therapy Assistants	997	1,301	304	30.5%	30	57	84	171	\$30.20
31-2021	Physical Therapist Assistants	1,110	1,337	227	20.5%	23	52	92	167	\$30.16
31-2022	Physical Therapist Aides	101	113	12	11.9%	1	5	8	14	\$14.01

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31-9011	Massage Therapists	568	660	92	16.2%	9	36	32	77	\$23.43
31-9091	Dental Assistants	1,850	1,822	-28	-1.5%	-3	84	129	210	\$18.27
31-9092	Medical Assistants	4,507	5,001	494	11.0%	49	195	355	599	\$18.11
31-9093	Medical Equipment Preparers	424	448	24	5.7%	2	24	29	55	\$18.30
31-9095	Pharmacy Aides	163	131	-32	-19.6%	-3	8	11	16	\$14.17
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	656	743	87	13.3%	9	34	77	120	\$14.38
31-9097	Phlebotomists	1,327	1,465	138	10.4%	14	60	102	176	\$17.99
31-9099	Healthcare Support Workers, All Other	417	459	42	10.1%	4	24	29	57	\$21.88
33-0000	Protective Service Occupations	24,368	25,117	749	3.1%	75	1,276	1,608	2,959	\$23.04
33-1012	First-Line Supervisors of Police and Detectives	624	648	24	3.9%	2	14	26	42	\$48.03
33-1021	First-Line Supervisors of Fire Fighting and Prevention Workers	384	401	17	4.4%	2	9	16	27	\$39.11
33-1090	Miscellaneous First-Line Supervisors, Protective Service Workers	482	498	16	3.3%	2	18	29	49	\$25.23 ^
33-2011	Firefighters	3,601	3,774	173	4.8%	17	81	190	288	\$29.43
33-3011	Bailiffs	277	274	-3	-1.1%	0	10	15	25	\$23.13
33-3012	Correctional Officers and Jailers	2,309	2,115	-194	-8.4%	-19	83	120	184	\$23.04
33-3021	Detectives and Criminal Investigators	414	423	9	2.2%	1	11	19	31	\$37.81
33-3051	Police and Sheriff's Patrol Officers	4,704	4,892	188	4.0%	19	120	244	383	\$36.96
33-9011	Animal Control Workers	100	107	7	7.0%	1	3	6	10	\$22.26
33-9032	Security Guards	6,843	6,915	72	1.1%	7	364	533	904	\$14.06
33-9091	Crossing Guards	1,021	1,156	135	13.2%	14	159	56	229	\$15.11
33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	1,329	1,527	198	14.9%	20	197	158	375	\$10.87
33-9098	School Bus Monitors and Protective Service Workers, All Other	1,206	1,284	78	6.5%	8	171	138	317	\$15.11 ^^^
35-0000	Food Preparation and Serving Related Occupations	73,403	84,403	11,000	15.0%	1,100	6,036	8,051	15,187	\$11.19
35-1011	Chefs and Head Cooks	701	843	142	20.3%	14	23	76	113	\$28.86
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	6,234	7,428	1,194	19.2%	119	305	696	1,120	\$17.35
35-2011	Cooks, Fast Food	3,542	3,407	-135	-3.8%	-14	204	297	487	\$10.83
35-2012	Cooks, Institution and Cafeteria	3,955	4,047	92	2.3%	9	236	342	587	\$14.77
35-2014	Cooks, Restaurant	5,419	7,878	2,459	45.4%	246	391	569	1,206	\$14.33
35-2021	Food Preparation Workers	2,474	2,490	16	0.7%	2	195	228	425	\$12.84
35-3011	Bartenders	3,690	4,558	868	23.5%	87	187	500	774	\$10.29
35-3023	Fast Food and Counter Workers	26,374	29,566	3,192	12.1%	319	2,712	2,957	5,988	\$10.81
35-3031	Waiters and Waitresses	11,519	13,403	1,884	16.4%	188	915	1,488	2,591	\$9.88
35-3041	Food Servers, Nonrestaurant	2,702	2,837	135	5.0%	14	219	216	449	\$12.60
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	1,474	1,811	337	22.9%	34	142	142	318	\$11.73
35-9021	Dishwashers	2,650	3,045	395	14.9%	40	214	238	492	\$11.17
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	1,805	2,205	400	22.2%	40	238	226	504	\$10.90
35-9099	Food Preparation and Serving Related Workers, All Other	140	153	13	9.3%	1	13	13	27	\$11.89
37-0000	Building and Grounds Cleaning and Maintenance Occupations	32,197	32,490	293	0.9%	29	1,836	2,368	4,233	\$14.46
37-1011	First-Line Supervisors of Housekeeping and Janitorial Workers	1,205	1,181	-24	-2.0%	-2	51	82	131	\$22.75
37-1012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	836	818	-18	-2.2%	-2	26	59	83	\$23.67
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	15,745	15,899	154	1.0%	15	988	1,109	2,112	\$14.33

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37-2012	Maids and Housekeeping Cleaners	5,968	6,065	97	1.6%	10	409	387	806	\$12.87
37-3011	Landscaping and Groundskeeping Workers	7,934	8,015	81	1.0%	8	343	684	1,035	\$14.87
39-0000	Personal Care and Service Occupations	27,149	30,938	3,789	14.0%	379	1,791	2,220	4,390	\$13.13
39-3031	Ushers, Lobby Attendants, and Ticket Takers	537	673	136	25.3%	14	77	62	153	\$10.97
39-3091	Amusement and Recreation Attendants	1,829	2,241	412	22.5%	41	199	228	468	\$10.62
39-4021	Funeral Attendants	502	501	-1	-0.2%	0	28	38	66	\$14.55
39-4031	Morticians, Undertakers, and Funeral Directors	268	271	3	1.1%	0	13	18	31	\$30.09
39-5012	Hairdressers, Hairstylists, and Cosmetologists	6,805	7,365	560	8.2%	56	375	394	825	\$14.00
39-5092	Manicurists and Pedicurists	859	1,015	156	18.2%	16	48	50	114	\$10.98
39-7010	Tour and Travel Guides	137	179	42	30.7%	4	10	15	29	\$13.81
39-9011	Childcare Workers	5,212	5,379	167	3.2%	17	356	370	743	\$11.21
39-9031	Fitness Trainers and Aerobics Instructors	2,333	3,194	861	36.9%	86	162	262	510	\$14.43
39-9032	Recreation Workers	2,569	2,842	273	10.6%	27	158	257	442	\$13.47
41-0000	Sales and Related Occupations	95,391	93,305	-2,086	-2.2%	-209	4,591	7,357	11,739	\$14.51
41-1011	First-Line Supervisors of Retail Sales Workers	7,539	7,099	-440	-5.8%	-44	259	507	722	\$18.50
41-1012	First-Line Supervisors of Non-Retail Sales Workers	2,963	2,764	-199	-6.7%	-20	83	170	233	\$38.57
41-2011	Cashiers	17,424	15,617	-1,807	-10.4%	-181	1,405	1,582	2,806	\$11.12
41-2021	Counter and Rental Clerks	1,857	1,908	51	2.8%	5	84	129	218	\$14.36
41-2031	Retail Salespersons	26,903	26,538	-365	-1.4%	-36	1,494	2,207	3,665	\$13.06
41-3011	Advertising Sales Agents	631	560	-71	-11.3%	-7	18	55	66	\$23.71
41-3021	Insurance Sales Agents	3,890	4,200	310	8.0%	31	135	226	392	\$29.77
41-3031	Securities, Commodities, and Financial Services Sales Agents	4,254	4,293	39	0.9%	4	94	269	367	\$29.42
41-3041	Travel Agents	293	287	-6	-2.1%	-1	14	19	32	\$18.70
41-3091	Sales Representatives of Services, Except Advertising, Insurance, Financial Services, and Travel	5,488	5,863	375	6.8%	38	142	499	679	\$23.81
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	1,581	1,624	43	2.7%	4	47	108	159	\$47.67
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	13,003	13,371	368	2.8%	37	390	891	1,318	\$30.10
41-9021	Real Estate Brokers	704	721	17	2.4%	2	30	31	63	\$23.25 †
41-9022	Real Estate Sales Agents	2,403	2,462	59	2.5%	6	101	107	214	\$15.53
41-9031	Sales Engineers	472	469	-3	-0.6%	0	9	39	48	\$47.76
41-9041	Telemarketers	3,145	2,577	-568	-18.1%	-57	132	292	367	\$13.53
41-9099	Sales and Related Workers, All Other	584	598	14	2.4%	1	27	48	76	\$13.73
43-0000	Office and Administrative Support Occupations	139,347	133,001	-6,346	-4.6%	-635	6,439	8,499	14,303	\$18.36
43-1011	First-Line Supervisors of Office and Administrative Support Workers	9,149	8,793	-356	-3.9%	-36	333	548	845	\$29.54
43-2011	Switchboard Operators, Including Answering Service	448	343	-105	-23.4%	-10	21	23	34	\$17.87
43-3011	Bill and Account Collectors	2,288	2,126	-162	-7.1%	-16	81	156	221	\$17.84
43-3021	Billing and Posting Clerks	3,300	3,250	-50	-1.5%	-5	134	201	330	\$18.42
43-3031	Bookkeeping, Accounting, and Auditing Clerks	11,100	10,530	-570	-5.1%	-57	634	552	1,129	\$21.66
43-3051	Payroll and Timekeeping Clerks	1,288	1,073	-215	-16.7%	-22	56	65	99	\$22.82

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43-3061	Procurement Clerks	583	562	-21	-3.6%	-2	16	36	50	\$18.49
43-3071	Tellers	2,817	2,174	-643	-22.8%	-64	101	157	194	\$17.89
43-4011	Brokerage Clerks	387	348	-39	-10.1%	-4	15	24	35	\$23.35
43-4031	Court, Municipal, and License Clerks	1,711	1,789	78	4.6%	8	85	88	181	\$18.39
43-4051	Customer Service Representatives	25,978	25,633	-345	-1.3%	-34	1,213	2,029	3,208	\$18.21
43-4061	Eligibility Interviewers, Government Programs	893	913	20	2.2%	2	33	47	82	\$21.88
43-4071	File Clerks	485	404	-81	-16.7%	-8	24	28	44	\$17.97
43-4081	Hotel, Motel, and Resort Desk Clerks	722	774	52	7.2%	5	43	79	127	\$11.65
43-4111	Interviewers, Except Eligibility and Loan	787	704	-83	-10.6%	-8	43	48	83	\$18.24
43-4121	Library Assistants, Clerical	1,016	956	-60	-5.9%	-6	88	63	145	\$13.73
43-4131	Loan Interviewers and Clerks	1,722	1,619	-103	-6.0%	-10	48	98	136	\$21.81
43-4151	Order Clerks	986	792	-194	-19.7%	-19	38	56	75	\$17.91
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	660	647	-13	-2.0%	-1	25	40	64	\$22.58
43-4171	Receptionists and Information Clerks	6,145	6,025	-120	-2.0%	-12	340	420	748	\$14.34
43-4181	Reservation and Transportation Ticket Agents and Travel Clerks	491	521	30	6.1%	3	19	36	58	\$18.06
43-4199	Information and Record Clerks, All Other	607	636	29	4.8%	3	25	41	69	\$22.57
43-5011	Cargo and Freight Agents	484	521	37	7.6%	4	19	30	53	\$18.97
43-5021	Couriers and Messengers	346	325	-21	-6.1%	-2	14	18	30	\$15.05
43-5031	Police, Fire, and Ambulance Dispatchers	1,207	1,286	79	6.6%	8	44	70	122	\$23.40
43-5032	Dispatchers, Except Police, Fire, and Ambulance	1,482	1,536	54	3.6%	5	53	84	142	\$18.89
43-5041	Meter Readers, Utilities	352	329	-23	-6.5%	-2	10	15	23	\$28.71
43-5051	Postal Service Clerks	400	363	-37	-9.3%	-4	17	14	27	\$26.63
43-5052	Postal Service Mail Carriers	2,341	2,126	-215	-9.2%	-22	78	80	136	\$25.74
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	970	837	-133	-13.7%	-13	49	29	65	\$21.77
43-5061	Production, Planning, and Expediting Clerks	3,064	3,265	201	6.6%	20	113	206	339	\$23.24
43-5071	Shipping, Receiving, and Traffic Clerks	7,347	6,931	-416	-5.7%	-42	261	420	639	\$17.97
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	298	314	16	5.4%	2	12	17	31	\$18.81
43-6011	Executive Secretaries and Executive Administrative Assistants	2,416	1,927	-489	-20.2%	-49	110	121	182	\$29.42
43-6012	Legal Secretaries	1,198	915	-283	-23.6%	-28	54	59	85	\$23.25
43-6013	Medical Secretaries	6,265	6,592	327	5.2%	33	327	359	719	\$18.21
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	11,069	9,910	-1,159	-10.5%	-116	534	586	1,004	\$18.07
43-9021	Data Entry Keyers	1,295	1,022	-273	-21.1%	-27	52	73	98	\$17.70
43-9022	Word Processors and Typists	335	207	-128	-38.2%	-13	16	15	18	\$18.47
43-9041	Insurance Claims and Policy Processing Clerks	2,352	2,370	18	0.8%	2	83	138	223	\$22.55
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	578	547	-31	-5.4%	-3	28	35	60	\$14.15
43-9061	Office Clerks, General	20,218	19,302	-916	-4.5%	-92	1,078	1,172	2,158	\$18.13
43-9199	Office and Administrative Support Workers, All Other	728	776	48	6.6%	5	31	52	88	\$22.29
45-0000	Farming, Fishing, and Forestry Occupations	1,003	1,037	34	3.4%	3	43	116	162	\$14.80
47-0000	Construction and Extraction Occupations	32,425	33,797	1,372	4.2%	137	998	2,233	3,368	\$24.40
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	2,764	2,893	129	4.7%	13	80	183	276	\$30.39
47-2021	Brickmasons and Blockmasons	586	548	-38	-6.5%	-4	18	35	49	\$29.95
47-2031	Carpenters	4,388	4,497	109	2.5%	11	130	277	418	\$23.98

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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	
47-2041	Carpet Installers	108	100	-8	-7.4%	-1	3	6	8	\$21.78
47-2044	Tile and Marble Setters	112	124	12	10.7%	1	3	7	11	\$25.17
47-2051	Cement Masons and Concrete Finishers	806	784	-22	-2.7%	-2	19	52	69	\$23.96
47-2061	Construction Laborers	6,813	7,303	490	7.2%	49	209	477	735	\$22.69
47-2071	Paving, Surfacing, and Tamping Equipment Operators	155	162	7	4.5%	1	5	11	17	\$24.82
47-2073	Operating Engineers and Other Construction Equipment Operators	1,710	1,758	48	2.8%	5	57	124	186	\$29.31
47-2082	Tapers	126	127	1	0.8%	0	3	7	10	\$29.02
47-2111	Electricians	3,759	4,040	281	7.5%	28	113	286	427	\$29.69
47-2121	Glaziers	260	276	16	6.2%	2	7	21	30	\$24.18
47-2141	Painters, Construction and Maintenance	2,079	2,181	102	4.9%	10	64	118	192	\$22.23
47-2151	Pipelayers	207	216	9	4.4%	1	6	15	22	\$23.09
47-2152	Plumbers, Pipefitters, and Steamfitters	1,777	1,838	61	3.4%	6	53	130	189	\$30.12
47-2181	Roofers	1,076	1,133	57	5.3%	6	27	77	110	\$23.02
47-2221	Structural Iron and Steel Workers	230	243	13	5.7%	1	6	18	25	\$29.78
47-4011	Construction and Building Inspectors	684	631	-53	-7.8%	-5	36	40	71	\$29.82
47-4041	Hazardous Materials Removal Workers	573	590	17	3.0%	2	22	47	71	\$23.02
47-4051	Highway Maintenance Workers	1,557	1,590	33	2.1%	3	62	99	164	\$23.32
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	407	437	30	7.4%	3	13	35	51	\$23.32
49-0000	Installation, Maintenance, and Repair Occupations	38,160	39,738	1,578	4.1%	158	1,241	2,453	3,852	\$23.38
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	2,637	2,757	120	4.6%	12	78	160	250	\$31.69
49-2011	Computer, Automated Teller, and Office Machine Repairers	880	789	-91	-10.3%	-9	25	64	80	\$18.98
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	1,336	1,287	-49	-3.7%	-5	46	101	142	\$29.66
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	300	310	10	3.3%	1	8	15	24	\$24.70
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	150	149	-1	-0.7%	0	4	7	11	\$39.96
49-2098	Security and Fire Alarm Systems Installers	469	487	18	3.8%	2	11	37	50	\$23.16
49-3011	Aircraft Mechanics and Service Technicians	618	668	50	8.1%	5	18	34	57	\$36.98
49-3021	Automotive Body and Related Repairers	996	1,024	28	2.8%	3	32	60	95	\$23.09
49-3023	Automotive Service Technicians and Mechanics	4,754	4,683	-71	-1.5%	-7	140	320	453	\$22.71
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	1,220	1,291	71	5.8%	7	36	78	121	\$23.67
49-3041	Farm Equipment Mechanics and Service Technicians	109	120	11	10.1%	1	3	8	12	\$22.63
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	625	657	32	5.1%	3	19	43	65	\$29.16
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	178	176	-2	-1.1%	0	8	12	20	\$18.22
49-3093	Tire Repairers and Changers	405	422	17	4.2%	2	13	34	49	\$17.34
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	166	166	0	0.0%	0	4	9	13	\$35.79
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	2,725	2,831	106	3.9%	11	71	190	272	\$24.38
49-9031	Home Appliance Repairers	200	188	-12	-6.0%	-1	7	11	17	\$22.55
49-9041	Industrial Machinery Mechanics	3,096	3,759	663	21.4%	66	105	185	356	\$28.83
49-9043	Maintenance Workers, Machinery	479	522	43	9.0%	4	17	27	48	\$24.41
49-9044	Millwrights	263	298	35	13.3%	4	8	16	28	\$29.33
49-9051	Electrical Power-Line Installers and Repairers	442	469	27	6.1%	3	8	31	42	\$39.63
49-9052	Telecommunications Line Installers and Repairers	930	858	-72	-7.7%	-7	20	76	89	\$22.94
49-9062	Medical Equipment Repairers	688	731	43	6.3%	4	31	42	77	\$29.02

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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	
49-9071	Maintenance and Repair Workers, General	11,445	11,993	548	4.8%	55	413	684	1,152	\$22.78
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	221	233	12	5.4%	1	10	16	27	\$17.92
49-9098	Helpers--Installation, Maintenance, and Repair Workers	352	368	16	4.6%	2	16	30	48	\$17.94
49-9099	Installation, Maintenance, and Repair Workers, All Other	1,126	1,205	79	7.0%	8	41	78	127	\$18.97
51-0000	Production Occupations	82,582	80,047	-2,535	-3.1%	-254	3,009	5,744	8,499	\$18.44
51-1011	First-Line Supervisors of Production and Operating Workers	5,364	5,474	110	2.1%	11	163	364	538	\$30.07
51-2021	Coil Winders, Tapers, and Finishers	167	138	-29	-17.4%	-3	6	10	13	\$18.92
51-2028	Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	1,679	1,725	46	2.7%	5	68	109	182	\$14.89
51-2041	Structural Metal Fabricators and Fitters	501	440	-61	-12.2%	-6	10	38	42	\$19.55
51-2090	Miscellaneous Assemblers and Fabricators	13,804	12,916	-888	-6.4%	-89	510	954	1,375	\$16.19
51-3011	Bakers	1,886	1,998	112	5.9%	11	108	145	264	\$13.73
51-3021	Butchers and Meat Cutters	616	567	-49	-8.0%	-5	24	44	63	\$14.39
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	291	271	-20	-6.9%	-2	11	21	30	\$15.01
51-3092	Food Batchmakers	874	898	24	2.8%	2	41	66	109	\$14.82
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	803	736	-67	-8.3%	-7	27	48	68	\$18.18
51-4022	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	426	365	-61	-14.3%	-6	14	24	32	\$23.00
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	1,255	1,108	-147	-11.7%	-15	41	73	99	\$23.00
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	2,916	2,768	-148	-5.1%	-15	90	196	271	\$18.73
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	1,594	1,535	-59	-3.7%	-6	70	108	172	\$17.91
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	812	753	-59	-7.3%	-6	25	53	72	\$18.97
51-4035	Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	479	391	-88	-18.4%	-9	14	29	34	\$23.00
51-4041	Machinists	5,469	5,842	373	6.8%	37	189	385	611	\$21.17
51-4051	Metal-Refining Furnace Operators and Tenders	108	106	-2	-1.9%	0	2	7	9	\$18.30
51-4071	Foundry Mold and Coremakers	1,093	1,036	-57	-5.2%	-6	35	72	101	\$18.18
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	3,058	2,792	-266	-8.7%	-27	95	198	266	\$17.35
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	2,507	2,579	72	2.9%	7	83	172	262	\$18.23
51-4111	Tool and Die Makers	1,222	1,201	-21	-1.7%	-2	45	76	119	\$24.40
51-4121	Welders, Cutters, Solderers, and Brazers	2,102	2,251	149	7.1%	15	57	172	244	\$22.27
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	265	253	-12	-4.5%	-1	7	20	26	\$18.29
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	360	341	-19	-5.3%	-2	11	24	33	\$18.84
51-4193	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	935	887	-48	-5.1%	-5	30	62	87	\$17.59
51-5111	Prepress Technicians and Workers	310	251	-59	-19.0%	-6	11	27	32	\$21.74
51-5112	Printing Press Operators	1,651	1,452	-199	-12.1%	-20	56	109	145	\$18.55
51-5113	Print Binding and Finishing Workers	305	231	-74	-24.3%	-7	13	17	23	\$14.56
51-6011	Laundry and Dry-Cleaning Workers	1,204	1,252	48	4.0%	5	80	82	167	\$12.68

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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	
51-6031	Sewing Machine Operators	875	781	-94	-10.7%	-9	50	44	85	\$14.27
51-6052	Tailors, Dressmakers, and Custom Sewers	482	425	-57	-11.8%	-6	36	23	53	\$14.58
51-7011	Cabinetmakers and Bench Carpenters	679	730	51	7.5%	5	26	39	70	\$18.72
51-8012	Power Distributors and Dispatchers	129	124	-5	-3.9%	0	3	8	11	\$38.25
51-8021	Stationary Engineers and Boiler Operators	213	220	7	3.3%	1	10	15	26	\$30.25
51-8031	Water and Wastewater Treatment Plant and System Operators	588	551	-37	-6.3%	-4	16	35	47	\$29.28
51-8091	Chemical Plant and System Operators	206	196	-10	-4.9%	-1	5	16	20	\$30.98
51-9011	Chemical Equipment Operators and Tenders	1,341	1,253	-88	-6.6%	-9	28	101	120	\$22.78
51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	111	115	4	3.6%	0	2	9	11	\$18.20
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	309	308	-1	-0.3%	0	10	23	33	\$18.45
51-9022	Grinding and Polishing Workers, Hand	142	118	-24	-16.9%	-2	4	10	12	\$17.59
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	1,354	1,392	38	2.8%	4	46	102	152	\$18.45
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	363	338	-25	-6.9%	-2	16	27	41	\$18.43
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	745	724	-21	-2.8%	-2	20	54	72	\$16.61
51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	161	176	15	9.3%	2	6	10	18	\$22.95
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	5,400	4,566	-834	-15.4%	-83	192	396	505	\$19.14
51-9081	Dental Laboratory Technicians	423	435	12	2.8%	1	19	35	55	\$22.93
51-9082	Medical Appliance Technicians	119	131	12	10.1%	1	6	10	17	\$18.40
51-9111	Packaging and Filling Machine Operators and Tenders	2,279	2,369	90	4.0%	9	96	154	259	\$17.90
51-9124	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	1,406	1,437	31	2.2%	3	39	102	144	\$19.22
51-9161	Computer Numerically Controlled Tool Operators	2,625	2,547	-78	-3.0%	-8	88	191	271	\$22.10
51-9162	Computer Numerically Controlled Tool Programmers	628	787	159	25.3%	16	24	52	92	\$29.02
51-9191	Adhesive Bonding Machine Operators and Tenders	182	187	5	2.8%	0	10	12	22	\$17.59
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	259	302	43	16.6%	4	10	18	32	\$18.54
51-9196	Paper Goods Machine Setters, Operators, and Tenders	583	540	-43	-7.4%	-4	25	37	58	\$18.72
51-9198	Helpers--Production Workers	1,075	991	-84	-7.8%	-8	48	97	137	\$17.75
51-9199	Production Workers, All Other	1,036	1,087	51	4.9%	5	36	78	119	\$17.86
53-0000	Transportation and Material Moving Occupations	76,639	83,927	7,288	9.5%	729	3,722	6,399	10,850	\$17.92
53-1047	FirstLine Supervisors of Transportation & Material Moving Workers, Exc Aircraft Cargo Handling Supervisor	3,415	3,593	178	5.2%	18	128	243	389	\$23.88
53-2011	Airline Pilots, Copilots, and Flight Engineers	298	296	-2	-0.7%	0	11	21	32	\$201,720 ++
53-2012	Commercial Pilots	184	210	26	14.1%	3	7	14	24	\$99,390 **
53-2021	Air Traffic Controllers	532	573	41	7.7%	4	14	38	56	\$74.61
53-3031	Driver/Sales Workers	4,641	5,263	622	13.4%	62	203	336	601	\$12.16
53-3032	Heavy and Tractor-Trailer Truck Drivers	10,841	11,579	738	6.8%	74	459	760	1,293	\$23.29
53-3033	Light Truck or Delivery Services Drivers	4,943	5,463	520	10.5%	52	213	353	618	\$18.19
53-3052	Bus Drivers, Transit and Intercity	1,131	1,250	119	10.5%	12	78	59	149	\$29.55
53-3058	Passenger Vehicle Drivers, Except Bus Drivers, Transit and Intercity	3,201	4,256	1,055	33.0%	106	246	185	537	\$18.05 ^^^
53-6021	Parking Lot Attendants	734	777	43	5.9%	4	37	78	119	\$11.70

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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	
53-6031	Automotive and Watercraft Service Attendants	353	365	12	3.4%	1	16	32	49	\$14.01
53-6051	Transportation Inspectors	237	246	9	3.8%	1	8	18	27	\$46.16
53-7011	Conveyor Operators and Tenders	105	111	6	5.7%	1	3	9	13	\$14.97
53-7021	Crane and Tower Operators	313	322	9	2.9%	1	9	24	34	\$22.27
53-7051	Industrial Truck and Tractor Operators	3,806	4,414	608	16.0%	61	124	316	501	\$18.83
53-7061	Cleaners of Vehicles and Equipment	2,174	2,272	98	4.5%	10	109	198	317	\$14.17
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	18,654	20,453	1,799	9.6%	180	856	1,701	2,737	\$16.33
53-7064	Packers and Packagers, Hand	3,313	3,290	-23	-0.7%	-2	188	267	453	\$14.48
53-7065	Stockers and Order Fillers	15,142	16,389	1,247	8.2%	125	897	1,538	2,560	\$14.53
53-7081	Refuse and Recyclable Material Collectors	607	657	50	8.2%	5	27	57	89	\$23.02

* 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.

Cleveland-Elyria Metropolitan Statistical Area
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				\$22.47
11-0000	Management Occupations				\$48.68
11-1011	Chief Executives	Bachelor's degree	5 years or more	None	#
11-1021	General and Operations Managers	Bachelor's degree	5 years or more	None	\$47.93
11-1031	Legislators	Bachelor's degree	Less than 5 years	None	\$36,940 **
11-2021	Marketing Managers	Bachelor's degree	5 years or more	None	\$61.50
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	\$62.92
11-3031	Financial Managers	Bachelor's degree	5 years or more	None	\$61.73
11-3051	Industrial Production Managers	Bachelor's degree	5 years or more	None	\$49.67
11-3061	Purchasing Managers	Bachelor's degree	5 years or more	None	\$57.76
11-3071	Transportation, Storage, and Distribution Managers	High school diploma or equivalent	5 years or more	None	\$47.08
11-3121	Human Resources Managers	Bachelor's degree	5 years or more	None	\$60.69
11-3131	Training and Development Managers	Bachelor's degree	5 years or more	None	\$57.76
11-9021	Construction Managers	Bachelor's degree	None	Moderate-term on-the-job training	\$47.35
11-9031	Education Administrators, Preschool and Childcare Center/Program	Bachelor's degree	Less than 5 years	None	\$22.55
11-9032	Education Administrators, Elementary and Secondary School	Master's degree	5 years or more	None	\$97,940 **
11-9033	Education Administrators, Postsecondary	Master's degree	Less than 5 years	None	\$38.34
11-9039	Education Administrators, All Other	Bachelor's degree	Less than 5 years	None	\$31.91
11-9041	Architectural and Engineering Managers	Bachelor's degree	5 years or more	None	\$69.09
11-9051	Food Service Managers	High school diploma or equivalent	Less than 5 years	None	\$23.97
11-9111	Medical and Health Services Managers	Bachelor's degree	Less than 5 years	None	\$50.42
11-9121	Natural Sciences Managers	Bachelor's degree	5 years or more	None	\$48.37
11-9141	Property, Real Estate, and Community Association Managers	High school diploma or equivalent	Less than 5 years	None	\$28.30
11-9151	Social and Community Service Managers	Bachelor's degree	Less than 5 years	None	\$30.54
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				\$31.90
13-1020	Buyers and Purchasing Agents	Bachelor's degree	None	Moderate-term on-the-job training	\$30.30
13-1031	Claims Adjusters, Examiners, and Investigators	High school diploma or equivalent	None	Long-term on-the-job training	\$32.53
13-1041	Compliance Officers	Bachelor's degree	None	Moderate-term on-the-job training	\$32.61
13-1051	Cost Estimators	Bachelor's degree	None	Moderate-term on-the-job training	\$31.20
13-1071	Human Resources Specialists	Bachelor's degree	None	None	\$29.31
13-1075	Labor Relations Specialists	Bachelor's degree	Less than 5 years	None	\$38.98
13-1081	Logisticians	Bachelor's degree	None	None	\$31.08
13-1111	Management Analysts	Bachelor's degree	Less than 5 years	None	\$38.39
13-1121	Meeting, Convention, and Event Planners	Bachelor's degree	None	None	\$23.73
13-1131	Fundraisers	Bachelor's degree	None	None	\$29.89
13-1141	Compensation, Benefits, and Job Analysis Specialists	Bachelor's degree	Less than 5 years	None	\$30.41
13-1151	Training and Development Specialists	Bachelor's degree	Less than 5 years	None	\$29.24
13-1161	Market Research Analysts and Marketing Specialists	Bachelor's degree	None	None	\$29.74

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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
13-1198	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	\$37.14
13-2020	Property Appraisers and Assessors	Bachelor's degree	None	Long-term on-the-job training	\$31.25
13-2031	Budget Analysts	Bachelor's degree	None	None	\$38.49
13-2041	Credit Analysts	Bachelor's degree	None	None	\$38.40
13-2052	Personal Financial Advisors	Bachelor's degree	None	Long-term on-the-job training	\$47.76
13-2061	Financial Examiners	Bachelor's degree	None	Long-term on-the-job training	\$35.02
13-2071	Credit Counselors	Bachelor's degree	None	Moderate-term on-the-job training	\$23.28
13-2072	Loan Officers	Bachelor's degree	Less than 5 years	Moderate-term on-the-job training	\$30.10
13-2082	Tax Preparers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$15.59
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				\$38.65
15-1211	Computer Systems Analysts	Bachelor's degree	None	None	\$47.43
15-1212	Information Security Analysts	Bachelor's degree	Less than 5 years	None	\$47.76
15-1231	Computer Network Support Specialists	Associate's degree	None	None	\$29.50
15-1232	Computer User Support Specialists	Some college, no degree	None	None	\$23.26
15-1241	Computer Network Architects	Bachelor's degree	5 years or more	None	\$49.57
15-1244	Network and Computer Systems Administrators	Bachelor's degree	None	None	\$38.66
15-1245	Database Administrators and Architects	Bachelor's degree	None	None	\$47.44 ^^^
15-1251	Computer Programmers	Bachelor's degree	None	None	\$30.18
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	\$42.70
15-2011	Actuaries	Bachelor's degree	None	Long-term on-the-job training	\$48.98
15-2031	Operations Research Analysts	Bachelor's degree	None	None	\$38.41
15-2098	Data Scientists and Mathematical Science Occupations, All Other	Bachelor's degree	None	None	\$30.03 ^^^
17-0000	Architecture and Engineering Occupations				\$38.04
17-1011	Architects, Except Landscape and Naval	Bachelor's degree	None	Internship/residency	\$37.72
17-1022	Surveyors	Bachelor's degree	None	Internship/residency	\$30.19
17-2011	Aerospace Engineers	Bachelor's degree	None	None	\$60.00
17-2031	Biomedical Engineers	Bachelor's degree	None	None	\$45.82
17-2041	Chemical Engineers	Bachelor's degree	None	None	\$47.76
17-2051	Civil Engineers	Bachelor's degree	None	None	\$38.87
17-2061	Computer Hardware Engineers	Bachelor's degree	None	None	\$50.79
17-2071	Electrical Engineers	Bachelor's degree	None	None	\$47.00
17-2072	Electronics Engineers, Except Computer	Bachelor's degree	None	None	\$47.07
17-2081	Environmental Engineers	Bachelor's degree	None	None	\$61.11
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	Bachelor's degree	None	None	\$46.83
17-2112	Industrial Engineers	Bachelor's degree	None	None	\$39.06
17-2131	Materials Engineers	Bachelor's degree	None	None	\$38.84
17-2141	Mechanical Engineers	Bachelor's degree	None	None	\$38.16
17-2199	Engineers, All Other	Bachelor's degree	None	None	\$47.74

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17-3011	Architectural and Civil Drafters	Associate's degree	None	None	\$25.71
17-3013	Mechanical Drafters	Associate's degree	None	None	\$29.02
17-3019	Drafters, All Other	Associate's degree	None	None	\$29.32
17-3022	Civil Engineering Technicians	Associate's degree	None	None	\$29.47
17-3023	Electrical and Electronics Engineering Technicians	Associate's degree	None	None	\$31.99
17-3024	Electro-Mechanical Technicians	Associate's degree	None	None	\$23.04
17-3026	Industrial Engineering Technicians	Associate's degree	None	None	\$29.07
17-3027	Mechanical Engineering Technicians	Associate's degree	None	None	\$29.02
17-3031	Surveying and Mapping Technicians	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.00
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				\$31.58
19-1031	Conservation Scientists	Bachelor's degree	None	None	\$22.86
19-1042	Medical Scientists, Except Epidemiologists	Doctoral or professional degree	None	None	\$38.23
19-2031	Chemists	Bachelor's degree	None	None	\$38.05
19-2041	Environmental Scientists and Specialists, Including Health	Bachelor's degree	None	None	\$30.88
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	\$50.77
19-3051	Urban and Regional Planners	Master's degree	None	None	\$31.20
19-3099	Social Scientists and Related Workers, All Other	Bachelor's degree	None	None	\$38.86
19-4021	Biological Technicians	Bachelor's degree	None	None	\$23.84
19-4031	Chemical Technicians	Associate's degree	None	Moderate-term on-the-job training	\$24.42
19-4042	Environmental Science and Protection Technicians, Including Health	Associate's degree	None	None	\$22.96
19-4061	Social Science Research Assistants	Bachelor's degree	None	None	\$29.97
19-4092	Forensic Science Technicians	Bachelor's degree	None	Moderate-term on-the-job training	\$29.61
19-4099	Life, Physical, and Social Science Technicians, All Other	Associate's degree	None	None	\$27.72
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	\$24.28
21-0000	Community and Social Service Occupations				\$23.38
21-1012	Educational, Guidance, School, and Vocational Counselors	Master's degree	None	None	\$29.74
21-1015	Rehabilitation Counselors	Master's degree	None	None	\$18.99
21-1018	Substance Abuse, Behavioral Disorder, and Mental Health Counselors	Bachelor's degree	None	None	\$22.86
21-1021	Child, Family, and School Social Workers	Bachelor's degree	None	None	\$23.72
21-1022	Healthcare Social Workers	Master's degree	None	Internship/residency	\$30.46
21-1023	Mental Health and Substance Abuse Social Workers	Master's degree	None	Internship/residency	\$23.01
21-1029	Social Workers, All Other	Bachelor's degree	None	None	\$28.97
21-1091	Health Educators	Bachelor's degree	None	None	\$29.86
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	\$18.03
21-1094	Community Health Workers	High school diploma or equivalent	None	Short-term on-the-job training	\$18.60
21-1099	Community and Social Service Specialists, All Other	Bachelor's degree	None	None	\$23.51
21-2011	Clergy	Bachelor's degree	None	Moderate-term on-the-job training	\$28.99
23-0000	Legal Occupations				\$37.40

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23-1011	Lawyers	Doctoral or professional degree	None	None	\$53.46
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	Doctoral or professional degree	5 years or more	Short-term on-the-job training	\$58.46
23-1023	Judges, Magistrate Judges, and Magistrates	Doctoral or professional degree	5 years or more	Short-term on-the-job training	\$49.63
23-2011	Paralegals and Legal Assistants	Associate's degree	None	None	\$23.05
23-2093	Title Examiners, Abstractors, and Searchers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.52
23-2099	Legal Support Workers, All Other	Associate's degree	None	None	\$26.65
25-0000	Education, Training, and Library Occupations				\$29.52
25-1011	Business Teachers, Postsecondary	Doctoral or professional degree	None	None	\$61,400 **
25-1021	Computer Science Teachers, Postsecondary	Doctoral or professional degree	None	None	\$79,930 **
25-1022	Mathematical Science Teachers, Postsecondary	Doctoral or professional degree	None	None	\$77,450 **
25-1042	Biological Science Teachers, Postsecondary	Doctoral or professional degree	None	None	\$64,390 **
25-1052	Chemistry Teachers, Postsecondary	Doctoral or professional degree	None	None	\$77,450 **
25-1066	Psychology Teachers, Postsecondary	Doctoral or professional degree	None	None	\$80,260 **
25-1071	Health Specialties Teachers, Postsecondary	Doctoral or professional degree	Less than 5 years	None	\$107,630 ††
25-1072	Nursing Instructors and Teachers, Postsecondary	Doctoral or professional degree	Less than 5 years	None	\$76,390 **
25-1081	Education Teachers, Postsecondary	Doctoral or professional degree	Less than 5 years	None	\$49,100 **
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	Doctoral or professional degree	None	None	\$47,730 **
25-1121	Art, Drama, and Music Teachers, Postsecondary	Master's degree	None	None	\$63,740 **
25-1122	Communications Teachers, Postsecondary	Doctoral or professional degree	None	None	\$77,950 **
25-1123	English Language and Literature Teachers, Postsecondary	Doctoral or professional degree	None	None	\$77,320 **
25-1124	Foreign Language and Literature Teachers, Postsecondary	Doctoral or professional degree	None	None	\$62,570 **
25-1125	History Teachers, Postsecondary	Doctoral or professional degree	None	None	\$79,880 **
25-1126	Philosophy and Religion Teachers, Postsecondary	Doctoral or professional degree	None	None	\$80,580 **
25-1193	Recreation and Fitness Studies Teachers, Postsecondary	Doctoral or professional degree	None	None	\$61,750 **
25-1194	Vocational Education Teachers, Postsecondary	Bachelor's degree	Less than 5 years	None	\$24.27
25-1199	Postsecondary Teachers, All Other	Doctoral or professional degree	None	None	\$76,290 **
25-2011	Preschool Teachers, Except Special Education	Associate's degree	None	None	\$14.03
25-2012	Kindergarten Teachers, Except Special Education	Bachelor's degree	None	None	\$60,750 **
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	\$77,650 **
25-2031	Secondary School Teachers, Except Special and Career/Technical Education	Bachelor's degree	None	None	\$78,310 **
25-2052	Special Education Teachers, Kindergarten and Elementary School	Bachelor's degree	None	None	\$76,870 **
25-2057	Special Education Teachers, Middle School	Bachelor's degree	None	None	\$62,420 **
25-2058	Special Education Teachers, Secondary School	Bachelor's degree	None	None	\$62,070 **
25-3021	Self-Enrichment Education Teachers	High school diploma or equivalent	Less than 5 years	None	\$17.20
25-3031	Substitute Teachers, Short-Term	Bachelor's degree	None	None	\$14.46
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	\$29.72
25-4031	Library Technicians	Postsecondary non-degree award	None	None	\$18.13
25-9031	Instructional Coordinators	Master's degree	5 years or more	None	\$30.61
25-9044	Teaching Assistants, Postsecondary	Bachelor's degree	None	None	\$19,160 **
25-9045	Teaching Assistants, Except Postsecondary	Some college, no degree	None	None	\$29,270 **
25-9099	Education, Training, and Library Workers, All Other	Bachelor's degree	None	None	\$17.74

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27-0000	Arts, Design, Entertainment, Sports, and Media Occupations				\$23.61
27-1011	Art Directors	Bachelor's degree	5 years or more	None	\$37.80
27-1013	Fine Artists, Including Painters, Sculptors, and Illustrators	Bachelor's degree	None	Long-term on-the-job training	\$23.42
27-1021	Commercial and Industrial Designers	Bachelor's degree	None	None	\$30.86
27-1023	Floral Designers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$14.11
27-1024	Graphic Designers	Bachelor's degree	None	None	\$23.53
27-1025	Interior Designers	Bachelor's degree	None	None	\$28.99
27-1026	Merchandise Displayers and Window Trimmers	High school diploma or equivalent	None	Short-term on-the-job training	\$14.79
27-1027	Set and Exhibit Designers	Bachelor's degree	None	None	\$28.36 †
27-2012	Producers and Directors	Bachelor's degree	Less than 5 years	None	\$29.97
27-2022	Coaches and Scouts	Bachelor's degree	None	None	\$38,940 **
27-2041	Music Directors and Composers	Bachelor's degree	Less than 5 years	None	\$30.08
27-2042	Musicians and Singers	No formal educational credential	None	Long-term on-the-job training	\$60.65
27-3011	Radio and Television Announcers	Bachelor's degree	None	None	\$17.08
27-3023	News Analysts, Reporters, and Journalists	Bachelor's degree	None	None	\$23.16
27-3031	Public Relations Specialists	Bachelor's degree	None	None	\$30.45
27-3041	Editors	Bachelor's degree	Less than 5 years	None	\$29.79
27-3042	Technical Writers	Bachelor's degree	Less than 5 years	Short-term on-the-job training	\$30.73
27-3043	Writers and Authors	Bachelor's degree	None	Long-term on-the-job training	\$22.71
27-3091	Interpreters and Translators	Bachelor's degree	None	None	\$23.33
27-4011	Audio and Video Equipment Technicians	Postsecondary non-degree award	None	Short-term on-the-job training	\$22.55
27-4012	Broadcast Technicians	Associate's degree	None	Short-term on-the-job training	\$29.41
27-4021	Photographers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$19.86
29-0000	Healthcare Practitioners and Technical Occupations				\$31.40
29-1011	Chiropractors	Doctoral or professional degree	None	None	\$37.24
29-1021	Dentists, General	Doctoral or professional degree	None	None	\$78.68
29-1031	Dietitians and Nutritionists	Bachelor's degree	None	Internship/residency	\$30.08
29-1041	Optometrists	Doctoral or professional degree	None	None	\$49.78
29-1051	Pharmacists	Doctoral or professional degree	None	None	\$63.02
29-1071	Physician Assistants	Master's degree	None	None	\$58.18
29-1122	Occupational Therapists	Master's degree	None	None	\$40.20
29-1123	Physical Therapists	Doctoral or professional degree	None	None	\$48.11
29-1124	Radiation Therapists	Associate's degree	None	None	\$39.80
29-1125	Recreational Therapists	Bachelor's degree	None	None	\$23.11
29-1126	Respiratory Therapists	Associate's degree	None	None	\$30.73
29-1127	Speech-Language Pathologists	Master's degree	None	Internship/residency	\$40.07
29-1131	Veterinarians	Doctoral or professional degree	None	None	\$48.37
29-1141	Registered Nurses	Bachelor's degree	None	None	\$37.53
29-1151	Nurse Anesthetists	Master's degree	None	None	\$83.13
29-1171	Nurse Practitioners	Master's degree	None	None	\$51.19
29-1211	Anesthesiologists	Doctoral or professional degree	None	Internship/residency	#
29-1215	Family Medicine Physicians	Doctoral or professional degree	None	Internship/residency	\$41.23
29-1216	General Internal Medicine Physicians	Doctoral or professional degree	None	Internship/residency	#

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29-1218	Obstetricians and Gynecologists	Doctoral or professional degree	None	Internship/residency	#
29-1221	Pediatricians, General	Doctoral or professional degree	None	Internship/residency	#
29-1292	Dental Hygienists	Associate's degree	None	None	\$37.05
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	\$29.26
29-2031	Cardiovascular Technologists and Technicians	Associate's degree	None	None	\$30.81
29-2032	Diagnostic Medical Sonographers	Associate's degree	None	None	\$37.24
29-2033	Nuclear Medicine Technologists	Associate's degree	None	None	\$38.65
29-2034	Radiologic Technologists	Associate's degree	None	None	\$30.24
29-2035	Magnetic Resonance Imaging Technologists	Associate's degree	Less than 5 years	None	\$37.83
29-2040	Emergency Medical Technicians and Paramedics	Postsecondary non-degree award	None	None	\$17.76 ^
29-2051	Dietetic Technicians	Associate's degree	None	None	\$17.60
29-2052	Pharmacy Technicians	High school diploma or equivalent	None	Moderate-term on-the-job training	\$17.77
29-2053	Psychiatric Technicians	Postsecondary non-degree award	Less than 5 years	Short-term on-the-job training	\$17.87
29-2055	Surgical Technologists	Postsecondary non-degree award	None	None	\$23.97
29-2056	Veterinary Technologists and Technicians	Associate's degree	None	None	\$17.91
29-2057	Ophthalmic Medical Technicians	Postsecondary non-degree award	None	None	\$17.87
29-2061	Licensed Practical and Licensed Vocational Nurses	Postsecondary non-degree award	None	None	\$23.49
29-2081	Opticians, Dispensing	High school diploma or equivalent	None	Long-term on-the-job training	\$22.03
29-2091	Orthotists and Prosthetists	Master's degree	None	Internship/residency	\$37.80
29-2098	Medical Dosimetrists, Medical Records Specialists, and Health Technologists and Technicians, All Other	Postsecondary non-degree award	None	None	\$22.55 ^^^
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				\$14.30
31-1120	Home Health and Personal Care Aides	High school diploma or equivalent	None	Short-term on-the-job training	\$11.49
31-1131	Nursing Assistants	Postsecondary non-degree award	None	None	\$14.91
31-1132	Orderlies	High school diploma or equivalent	None	Short-term on-the-job training	\$14.25
31-2011	Occupational Therapy Assistants	Associate's degree	None	None	\$30.20
31-2021	Physical Therapist Assistants	Associate's degree	None	None	\$30.16
31-2022	Physical Therapist Aides	High school diploma or equivalent	None	Short-term on-the-job training	\$14.01
31-9011	Massage Therapists	Postsecondary non-degree award	None	None	\$23.43
31-9091	Dental Assistants	Postsecondary non-degree award	None	None	\$18.27
31-9092	Medical Assistants	Postsecondary non-degree award	None	None	\$18.11
31-9093	Medical Equipment Preparers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.30
31-9095	Pharmacy Aides	High school diploma or equivalent	None	Short-term on-the-job training	\$14.17
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	High school diploma or equivalent	None	Short-term on-the-job training	\$14.38
31-9097	Phlebotomists	Postsecondary non-degree award	None	None	\$17.99
31-9099	Healthcare Support Workers, All Other	High school diploma or equivalent	None	None	\$21.88
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	\$48.03
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	\$39.11
33-1090	Miscellaneous First-Line Supervisors, Protective Service Workers	High school diploma or equivalent	Less than 5 years	None	\$25.23 ^

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33-2011	Firefighters	Postsecondary non-degree award	None	Long-term on-the-job training	\$29.43
33-3011	Bailiffs	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.13
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	\$37.81
33-3051	Police and Sheriff's Patrol Officers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$36.96
33-9011	Animal Control Workers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.26
33-9032	Security Guards	High school diploma or equivalent	None	Short-term on-the-job training	\$14.06
33-9091	Crossing Guards	No formal educational credential	None	Short-term on-the-job training	\$15.11
33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	No formal educational credential	None	Short-term on-the-job training	\$10.87
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				\$11.19
35-1011	Chefs and Head Cooks	High school diploma or equivalent	5 years or more	None	\$28.86
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	High school diploma or equivalent	Less than 5 years	None	\$17.35
35-2011	Cooks, Fast Food	No formal educational credential	None	Short-term on-the-job training	\$10.83
35-2012	Cooks, Institution and Cafeteria	No formal educational credential	None	Short-term on-the-job training	\$14.77
35-2014	Cooks, Restaurant	No formal educational credential	Less than 5 years	Moderate-term on-the-job training	\$14.33
35-2021	Food Preparation Workers	No formal educational credential	None	Short-term on-the-job training	\$12.84
35-3011	Bartenders	No formal educational credential	None	Short-term on-the-job training	\$10.29
35-3023	Fast Food and Counter Workers	No formal educational credential	None	Short-term on-the-job training	\$10.81
35-3031	Waiters and Waitresses	No formal educational credential	None	Short-term on-the-job training	\$9.88
35-3041	Food Servers, Nonrestaurant	No formal educational credential	None	Short-term on-the-job training	\$12.60
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	No formal educational credential	None	Short-term on-the-job training	\$11.73
35-9021	Dishwashers	No formal educational credential	None	Short-term on-the-job training	\$11.17
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	No formal educational credential	None	Short-term on-the-job training	\$10.90
35-9099	Food Preparation and Serving Related Workers, All Other	No formal educational credential	None	Short-term on-the-job training	\$11.89
37-0000	Building and Grounds Cleaning and Maintenance Occupations				\$14.46
37-1011	First-Line Supervisors of Housekeeping and Janitorial Workers	High school diploma or equivalent	Less than 5 years	None	\$22.75
37-1012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	High school diploma or equivalent	Less than 5 years	None	\$23.67
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	No formal educational credential	None	Short-term on-the-job training	\$14.33
37-2012	Maids and Housekeeping Cleaners	No formal educational credential	None	Short-term on-the-job training	\$12.87
37-3011	Landscaping and Groundskeeping Workers	No formal educational credential	None	Short-term on-the-job training	\$14.87
39-0000	Personal Care and Service Occupations				\$13.13
39-3031	Ushers, Lobby Attendants, and Ticket Takers	No formal educational credential	None	Short-term on-the-job training	\$10.97
39-3091	Amusement and Recreation Attendants	No formal educational credential	None	Short-term on-the-job training	\$10.62
39-4021	Funeral Attendants	High school diploma or equivalent	None	Short-term on-the-job training	\$14.55
39-4031	Morticians, Undertakers, and Funeral Directors	Associate's degree	None	Long-term on-the-job training	\$30.09
39-5012	Hairdressers, Hairstylists, and Cosmetologists	Postsecondary non-degree award	None	None	\$14.00
39-5092	Manicurists and Pedicurists	Postsecondary non-degree award	None	None	\$10.98
39-7010	Tour and Travel Guides	High school diploma or equivalent	None	Moderate-term on-the-job training	\$13.81
39-9011	Childcare Workers	High school diploma or equivalent	None	Short-term on-the-job training	\$11.21
39-9031	Fitness Trainers and Aerobics Instructors	High school diploma or equivalent	None	Short-term on-the-job training	\$14.43
39-9032	Recreation Workers	High school diploma or equivalent	None	Short-term on-the-job training	\$13.47
41-0000	Sales and Related Occupations				\$14.51

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41-1011	First-Line Supervisors of Retail Sales Workers	High school diploma or equivalent	Less than 5 years	None	\$18.50
41-1012	First-Line Supervisors of Non-Retail Sales Workers	High school diploma or equivalent	Less than 5 years	None	\$38.57
41-2011	Cashiers	No formal educational credential	None	Short-term on-the-job training	\$11.12
41-2021	Counter and Rental Clerks	No formal educational credential	None	Short-term on-the-job training	\$14.36
41-2031	Retail Salespersons	No formal educational credential	None	Short-term on-the-job training	\$13.06
41-3011	Advertising Sales Agents	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.71
41-3021	Insurance Sales Agents	High school diploma or equivalent	None	Moderate-term on-the-job training	\$29.77
41-3031	Securities, Commodities, and Financial Services Sales Agents	Bachelor's degree	None	Moderate-term on-the-job training	\$29.42
41-3041	Travel Agents	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.70
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	\$23.81
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	Bachelor's degree	None	Moderate-term on-the-job training	\$47.67
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	High school diploma or equivalent	None	Moderate-term on-the-job training	\$30.10
41-9021	Real Estate Brokers	High school diploma or equivalent	Less than 5 years	None	\$23.25 †
41-9022	Real Estate Sales Agents	High school diploma or equivalent	None	Moderate-term on-the-job training	\$15.53
41-9031	Sales Engineers	Bachelor's degree	None	Moderate-term on-the-job training	\$47.76
41-9041	Telemarketers	No formal educational credential	None	Short-term on-the-job training	\$13.53
41-9099	Sales and Related Workers, All Other	High school diploma or equivalent	None	None	\$13.73
43-0000	Office and Administrative Support Occupations				\$18.36
43-1011	First-Line Supervisors of Office and Administrative Support Workers	High school diploma or equivalent	Less than 5 years	None	\$29.54
43-2011	Switchboard Operators, Including Answering Service	High school diploma or equivalent	None	Short-term on-the-job training	\$17.87
43-3011	Bill and Account Collectors	High school diploma or equivalent	None	Moderate-term on-the-job training	\$17.84
43-3021	Billing and Posting Clerks	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.42
43-3031	Bookkeeping, Accounting, and Auditing Clerks	Some college, no degree	None	Moderate-term on-the-job training	\$21.66
43-3051	Payroll and Timekeeping Clerks	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.82
43-3061	Procurement Clerks	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.49
43-3071	Tellers	High school diploma or equivalent	None	Short-term on-the-job training	\$17.89
43-4011	Brokerage Clerks	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.35
43-4031	Court, Municipal, and License Clerks	High school diploma or equivalent	None	Long-term on-the-job training	\$18.39
43-4051	Customer Service Representatives	High school diploma or equivalent	None	Short-term on-the-job training	\$18.21
43-4061	Eligibility Interviewers, Government Programs	High school diploma or equivalent	None	Moderate-term on-the-job training	\$21.88
43-4071	File Clerks	High school diploma or equivalent	None	Short-term on-the-job training	\$17.97
43-4081	Hotel, Motel, and Resort Desk Clerks	High school diploma or equivalent	None	Short-term on-the-job training	\$11.65
43-4111	Interviewers, Except Eligibility and Loan	High school diploma or equivalent	None	Short-term on-the-job training	\$18.24
43-4121	Library Assistants, Clerical	High school diploma or equivalent	None	Short-term on-the-job training	\$13.73
43-4131	Loan Interviewers and Clerks	High school diploma or equivalent	None	Short-term on-the-job training	\$21.81
43-4151	Order Clerks	Some college, no degree	None	Short-term on-the-job training	\$17.91
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	Associate's degree	None	None	\$22.58
43-4171	Receptionists and Information Clerks	High school diploma or equivalent	None	Short-term on-the-job training	\$14.34
43-4181	Reservation and Transportation Ticket Agents and Travel Clerks	High school diploma or equivalent	None	Short-term on-the-job training	\$18.06
43-4199	Information and Record Clerks, All Other	High school diploma or equivalent	None	Short-term on-the-job training	\$22.57

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43-5011	Cargo and Freight Agents	High school diploma or equivalent	None	Short-term on-the-job training	\$18.97
43-5021	Couriers and Messengers	High school diploma or equivalent	None	Short-term on-the-job training	\$15.05
43-5031	Police, Fire, and Ambulance Dispatchers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.40
43-5032	Dispatchers, Except Police, Fire, and Ambulance	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.89
43-5041	Meter Readers, Utilities	High school diploma or equivalent	None	Short-term on-the-job training	\$28.71
43-5051	Postal Service Clerks	High school diploma or equivalent	None	Short-term on-the-job training	\$26.63
43-5052	Postal Service Mail Carriers	High school diploma or equivalent	None	Short-term on-the-job training	\$25.74
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	High school diploma or equivalent	None	Short-term on-the-job training	\$21.77
43-5061	Production, Planning, and Expediting Clerks	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.24
43-5071	Shipping, Receiving, and Traffic Clerks	High school diploma or equivalent	None	Short-term on-the-job training	\$17.97
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	High school diploma or equivalent	None	Short-term on-the-job training	\$18.81
43-6011	Executive Secretaries and Executive Administrative Assistants	High school diploma or equivalent	Less than 5 years	None	\$29.42
43-6012	Legal Secretaries	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.25
43-6013	Medical Secretaries	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.21
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	High school diploma or equivalent	None	Short-term on-the-job training	\$18.07
43-9021	Data Entry Keyers	High school diploma or equivalent	None	Short-term on-the-job training	\$17.70
43-9022	Word Processors and Typists	High school diploma or equivalent	None	Short-term on-the-job training	\$18.47
43-9041	Insurance Claims and Policy Processing Clerks	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.55
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	High school diploma or equivalent	None	Short-term on-the-job training	\$14.15
43-9061	Office Clerks, General	High school diploma or equivalent	None	Short-term on-the-job training	\$18.13
43-9199	Office and Administrative Support Workers, All Other	High school diploma or equivalent	None	Short-term on-the-job training	\$22.29
45-0000	Farming, Fishing, and Forestry Occupations				\$14.80
47-0000	Construction and Extraction Occupations				\$24.40
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	High school diploma or equivalent	5 years or more	None	\$30.39
47-2021	Brickmasons and Blockmasons	High school diploma or equivalent	None	Apprenticeship	\$29.95
47-2031	Carpenters	High school diploma or equivalent	None	Apprenticeship	\$23.98
47-2041	Carpet Installers	No formal educational credential	None	Short-term on-the-job training	\$21.78
47-2044	Tile and Marble Setters	No formal educational credential	None	Long-term on-the-job training	\$25.17
47-2051	Cement Masons and Concrete Finishers	No formal educational credential	None	Moderate-term on-the-job training	\$23.96
47-2061	Construction Laborers	No formal educational credential	None	Short-term on-the-job training	\$22.69
47-2071	Paving, Surfacing, and Tamping Equipment Operators	High school diploma or equivalent	None	Moderate-term on-the-job training	\$24.82
47-2073	Operating Engineers and Other Construction Equipment Operators	High school diploma or equivalent	None	Moderate-term on-the-job training	\$29.31
47-2082	Tapers	No formal educational credential	None	Moderate-term on-the-job training	\$29.02
47-2111	Electricians	High school diploma or equivalent	None	Apprenticeship	\$29.69
47-2121	Glaziers	High school diploma or equivalent	None	Apprenticeship	\$24.18
47-2141	Painters, Construction and Maintenance	No formal educational credential	None	Moderate-term on-the-job training	\$22.23
47-2151	Pipelayers	No formal educational credential	None	Short-term on-the-job training	\$23.09
47-2152	Plumbers, Pipefitters, and Steamfitters	High school diploma or equivalent	None	Apprenticeship	\$30.12
47-2181	Roofers	No formal educational credential	None	Moderate-term on-the-job training	\$23.02
47-2221	Structural Iron and Steel Workers	High school diploma or equivalent	None	Apprenticeship	\$29.78
47-4011	Construction and Building Inspectors	High school diploma or equivalent	5 years or more	Moderate-term on-the-job training	\$29.82
47-4041	Hazardous Materials Removal Workers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.02
47-4051	Highway Maintenance Workers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.32

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47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.32
49-0000	Installation, Maintenance, and Repair Occupations				\$23.38
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	High school diploma or equivalent	Less than 5 years	None	\$31.69
49-2011	Computer, Automated Teller, and Office Machine Repairers	Some college, no degree	None	Short-term on-the-job training	\$18.98
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	Postsecondary non-degree award	None	Moderate-term on-the-job training	\$29.66
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	Postsecondary non-degree award	None	Long-term on-the-job training	\$24.70
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	Postsecondary non-degree award	Less than 5 years	Moderate-term on-the-job training	\$39.96
49-2098	Security and Fire Alarm Systems Installers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.16
49-3011	Aircraft Mechanics and Service Technicians	Postsecondary non-degree award	None	None	\$36.98
49-3021	Automotive Body and Related Repairers	High school diploma or equivalent	None	Long-term on-the-job training	\$23.09
49-3023	Automotive Service Technicians and Mechanics	Postsecondary non-degree award	None	Short-term on-the-job training	\$22.71
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	High school diploma or equivalent	None	Long-term on-the-job training	\$23.67
49-3041	Farm Equipment Mechanics and Service Technicians	High school diploma or equivalent	None	Long-term on-the-job training	\$22.63
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	High school diploma or equivalent	None	Long-term on-the-job training	\$29.16
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.22
49-3093	Tire Repairers and Changers	High school diploma or equivalent	None	Short-term on-the-job training	\$17.34
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	High school diploma or equivalent	None	Moderate-term on-the-job training	\$35.79
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	Postsecondary non-degree award	None	Long-term on-the-job training	\$24.38
49-9031	Home Appliance Repairers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.55
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	\$24.41
49-9044	Millwrights	High school diploma or equivalent	None	Apprenticeship	\$29.33
49-9051	Electrical Power-Line Installers and Repairers	High school diploma or equivalent	None	Long-term on-the-job training	\$39.63
49-9052	Telecommunications Line Installers and Repairers	High school diploma or equivalent	None	Long-term on-the-job training	\$22.94
49-9062	Medical Equipment Repairers	Associate's degree	None	Moderate-term on-the-job training	\$29.02
49-9071	Maintenance and Repair Workers, General	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.78
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	High school diploma or equivalent	None	Short-term on-the-job training	\$17.92
49-9098	Helpers--Installation, Maintenance, and Repair Workers	High school diploma or equivalent	None	Short-term on-the-job training	\$17.94
49-9099	Installation, Maintenance, and Repair Workers, All Other	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.97
51-0000	Production Occupations				\$18.44
51-1011	First-Line Supervisors of Production and Operating Workers	High school diploma or equivalent	Less than 5 years	None	\$30.07
51-2021	Coil Winders, Tapers, and Finishers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.92
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	\$14.89
51-2041	Structural Metal Fabricators and Fitters	High school diploma or equivalent	None	Moderate-term on-the-job training	\$19.55
51-2090	Miscellaneous Assemblers and Fabricators	High school diploma or equivalent	None	Moderate-term on-the-job training	\$16.19
51-3011	Bakers	No formal educational credential	None	Long-term on-the-job training	\$13.73
51-3021	Butchers and Meat Cutters	No formal educational credential	None	Long-term on-the-job training	\$14.39
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	No formal educational credential	None	Short-term on-the-job training	\$15.01
51-3092	Food Batchmakers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$14.82
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	\$18.18
51-4022	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.00

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51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.00
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	\$18.73
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	\$17.91
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.97
51-4035	Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.00
51-4041	Machinists	High school diploma or equivalent	None	Long-term on-the-job training	\$21.17
51-4051	Metal-Refining Furnace Operators and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.30
51-4071	Foundry Mold and Coremakers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.18
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	\$17.35
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.23
51-4111	Tool and Die Makers	Postsecondary non-degree award	None	Long-term on-the-job training	\$24.40
51-4121	Welders, Cutters, Solderers, and Brazers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.27
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.29
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.84
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	\$21.74
51-5112	Printing Press Operators	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.55
51-5113	Print Binding and Finishing Workers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$14.56
51-6011	Laundry and Dry-Cleaning Workers	No formal educational credential	None	Short-term on-the-job training	\$12.68
51-6031	Sewing Machine Operators	No formal educational credential	None	Short-term on-the-job training	\$14.27
51-6052	Tailors, Dressmakers, and Custom Sewers	No formal educational credential	None	Moderate-term on-the-job training	\$14.58
51-7011	Cabinetmakers and Bench Carpenters	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.72
51-8012	Power Distributors and Dispatchers	High school diploma or equivalent	None	Long-term on-the-job training	\$38.25
51-8021	Stationary Engineers and Boiler Operators	High school diploma or equivalent	None	Long-term on-the-job training	\$30.25
51-8031	Water and Wastewater Treatment Plant and System Operators	High school diploma or equivalent	None	Long-term on-the-job training	\$29.28
51-8091	Chemical Plant and System Operators	High school diploma or equivalent	None	Moderate-term on-the-job training	\$30.98
51-9011	Chemical Equipment Operators and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.78
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	\$18.20
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.45
51-9022	Grinding and Polishing Workers, Hand	No formal educational credential	None	Moderate-term on-the-job training	\$17.59
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.45
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.43
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$16.61
51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.95
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$19.14
51-9081	Dental Laboratory Technicians	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.93
51-9082	Medical Appliance Technicians	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.40

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51-9111	Packaging and Filling Machine Operators and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$17.90
51-9124	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$19.22
51-9161	Computer Numerically Controlled Tool Operators	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.10
51-9162	Computer Numerically Controlled Tool Programmers	Postsecondary non-degree award	None	Moderate-term on-the-job training	\$29.02
51-9191	Adhesive Bonding Machine Operators and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$17.59
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	High school diploma or equivalent	None	Long-term on-the-job training	\$18.54
51-9196	Paper Goods Machine Setters, Operators, and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.72
51-9198	Helpers--Production Workers	High school diploma or equivalent	None	Short-term on-the-job training	\$17.75
51-9199	Production Workers, All Other	High school diploma or equivalent	None	Moderate-term on-the-job training	\$17.86
53-0000	Transportation and Material Moving Occupations				\$17.92
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
53-2011	Airline Pilots, Copilots, and Flight Engineers	Bachelor's degree	Less than 5 years	Moderate-term on-the-job training	\$201,720 ††
53-2012	Commercial Pilots	High school diploma or equivalent	None	Moderate-term on-the-job training	\$99,390 **
53-2021	Air Traffic Controllers	Associate's degree	None	Long-term on-the-job training	\$74.61
53-3031	Driver/Sales Workers	High school diploma or equivalent	None	Short-term on-the-job training	\$12.16
53-3032	Heavy and Tractor-Trailer Truck Drivers	Postsecondary non-degree award	None	Short-term on-the-job training	\$23.29
53-3033	Light Truck or Delivery Services Drivers	High school diploma or equivalent	None	Short-term on-the-job training	\$18.19
53-3052	Bus Drivers, Transit and Intercity	High school diploma or equivalent	None	Moderate-term on-the-job training	\$29.55
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	\$11.70
53-6031	Automotive and Watercraft Service Attendants	No formal educational credential	None	Short-term on-the-job training	\$14.01
53-6051	Transportation Inspectors	High school diploma or equivalent	None	Moderate-term on-the-job training	\$46.16
53-7011	Conveyor Operators and Tenders	No formal educational credential	None	Short-term on-the-job training	\$14.97
53-7021	Crane and Tower Operators	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training	\$22.27
53-7051	Industrial Truck and Tractor Operators	No formal educational credential	None	Short-term on-the-job training	\$18.83
53-7061	Cleaners of Vehicles and Equipment	No formal educational credential	None	Short-term on-the-job training	\$14.17
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	No formal educational credential	None	Short-term on-the-job training	\$16.33
53-7064	Packers and Packagers, Hand	No formal educational credential	None	Short-term on-the-job training	\$14.48
53-7065	Stockers and Order Fillers	High school diploma or equivalent	None	Short-term on-the-job training	\$14.53
53-7081	Refuse and Recyclable Material Collectors	No formal educational credential	None	Short-term on-the-job training	\$23.02

* 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.

Mike DeWine, Governor
Jon Husted, Lt. Governor

State of Ohio
<http://Ohio.gov>

Matt Damschroder, Director
Ohio Department of Job and Family Services
<http://jfs.ohio.gov>

Office of Workforce Development
<http://jfs.ohio.gov/owd/>

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