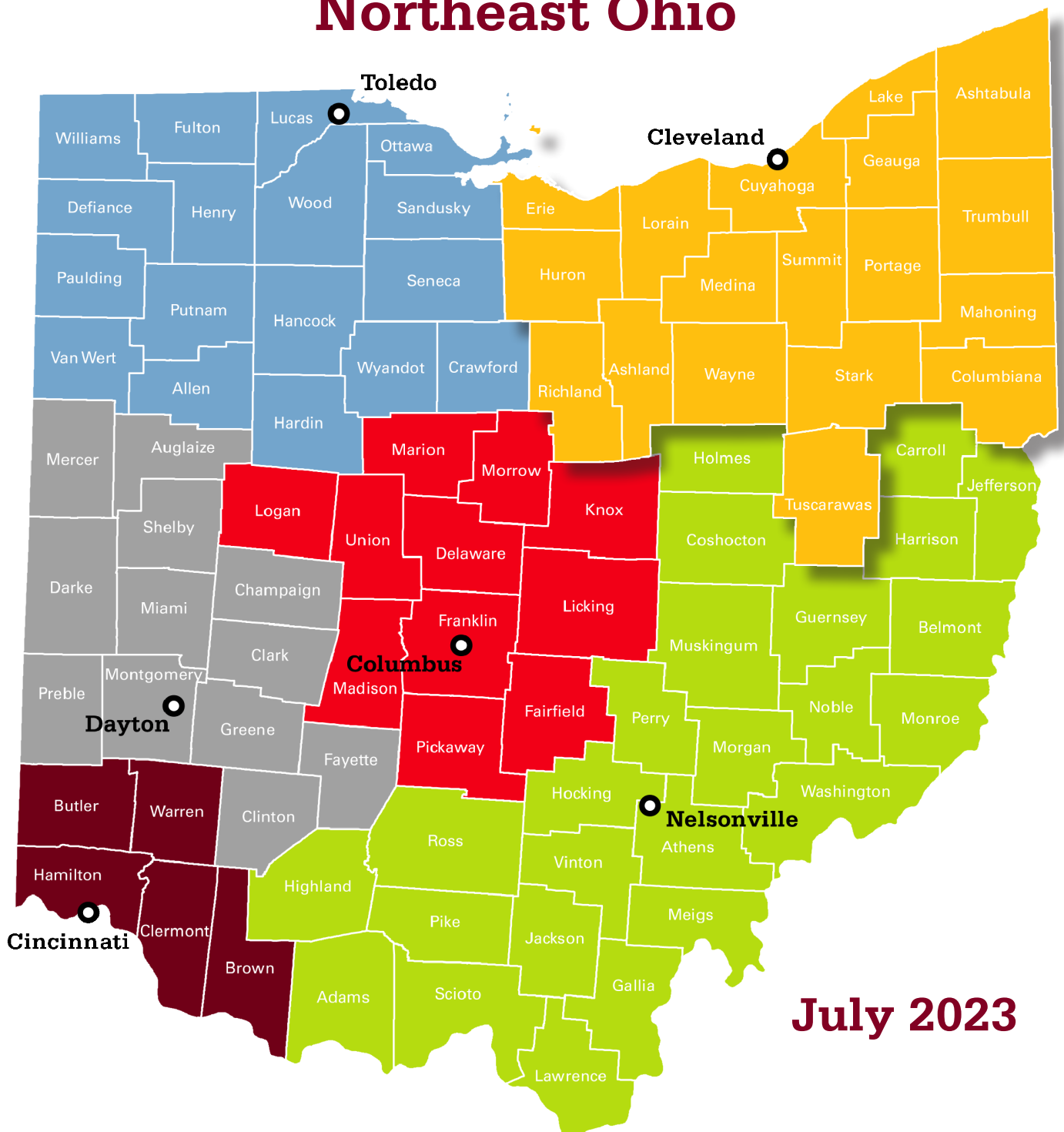




2030 Job Outlook

JobsOhio Network Northeast Ohio



July 2023

2030 Job Outlook for JobsOhio Network Regions

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 six JobsOhio Regions. 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 93,045 in the Central Region to a growth of 13,641 jobs in the Southeast Region. Among the state's regions, the highest projected growth is in Central Ohio (8.0%); followed by Southwest Ohio (6.0%), West Ohio (4.1%), Southeast Ohio (4.0%), Northeast Ohio (3.0%), and Northwest Ohio (2.7%).

Comparison of JobsOhio Regional Network: 2020-2030

JobsOhio Regions	2020 Employment	2030 Projected Employment	Projected Change 2020-2030	
			Number	Percent
Central Ohio	1,168,921	1,261,966	93,045	8.0%
Southwest Ohio	888,939	942,233	53,294	6.0%
West Ohio	590,922	615,181	24,259	4.1%
Southeast Ohio	345,649	359,290	13,641	4.0%
Northeast Ohio	1,996,374	2,056,711	60,337	3.0%
Northwest Ohio	576,227	591,855	15,628	2.7%

Each 2030 Job Outlook report for Ohio's JobsOhio Region 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.

JobsOhio Regional Network - Northeast Region

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	1,996,374	2,056,711	60,337	3.0%	6,034	86,886	132,740	225,660	\$18.76
11-0000	Management Occupations	115,028	122,259	7,231	6.3%	723	3,524	6,102	10,349	\$47.31
11-1011	Chief Executives	2,419	2,171	-248	-10.3%	-25	63	93	131	\$93.02
11-1021	General and Operations Managers	24,789	26,045	1,256	5.1%	126	508	1,576	2,210	\$45.59
11-1031	Legislators	1,159	1,189	30	2.6%	3	27	58	88	\$36,940 **
11-2021	Marketing Managers	2,174	2,306	132	6.1%	13	45	141	199	\$61.39
11-2022	Sales Managers	4,314	4,488	174	4.0%	17	88	277	382	\$60.47
11-2030	Public Relations and Fundraising Managers	754	816	62	8.2%	6	20	44	70	\$57.62 ^
11-3010	Administrative Services and Facilities Managers	3,776	3,959	183	4.9%	18	110	193	321	\$47.73 ^
11-3021	Computer and Information Systems Managers	4,267	4,602	335	7.9%	34	72	252	358	\$62.50
11-3031	Financial Managers	8,146	9,305	1,159	14.2%	116	179	438	733	\$60.69
11-3051	Industrial Production Managers	4,631	4,771	140	3.0%	14	91	222	327	\$48.38
11-3061	Purchasing Managers	808	839	31	3.8%	3	18	44	65	\$57.40
11-3071	Transportation, Storage, and Distribution Managers	2,151	2,309	158	7.4%	16	42	123	181	\$42.85
11-3111	Compensation and Benefits Managers	145	148	3	2.1%	0	3	8	11	\$61.83
11-3121	Human Resources Managers	1,424	1,522	98	6.9%	10	34	82	126	\$57.75
11-3131	Training and Development Managers	280	304	24	8.6%	2	6	19	27	\$57.19
11-9013	Farmers, Ranchers, and Other Agricultural Managers	20,475	21,387	912	4.5%	91	1,291	727	2,109	\$35.12 ^
11-9021	Construction Managers	3,499	3,824	325	9.3%	32	75	185	292	\$45.36
11-9031	Education Administrators, Preschool and Childcare Center/Program	718	784	66	9.2%	7	19	35	61	\$22.50
11-9032	Education Administrators, Elementary and Secondary School	3,727	3,943	216	5.8%	22	95	178	295	\$97,092 **
11-9033	Education Administrators, Postsecondary	1,185	1,221	36	3.0%	4	30	56	90	\$45.51
11-9039	Education Administrators, All Other	310	337	27	8.7%	3	8	15	26	\$30.35
11-9041	Architectural and Engineering Managers	1,893	1,928	35	1.9%	4	34	97	135	\$63.35
11-9051	Food Service Managers	4,103	4,504	401	9.8%	40	132	344	516	\$23.97
11-9081	Lodging Managers	359	386	27	7.5%	3	14	26	43	\$28.53
11-9111	Medical and Health Services Managers	5,216	6,478	1,262	24.2%	126	146	297	569	\$47.76
11-9121	Natural Sciences Managers	197	210	13	6.6%	1	4	10	15	\$49.17
11-9131	Postmasters and Mail Superintendents	157	141	-16	-10.2%	-2	4	7	9	\$39.62
11-9141	Property, Real Estate, and Community Association Managers	4,735	4,676	-59	-1.3%	-6	179	178	351	\$23.91
11-9151	Social and Community Service Managers	1,939	2,150	211	10.9%	21	61	110	192	\$30.55
11-9171	Funeral Home Managers	198	199	1	0.5%	0	5	10	15	\$36.83
11-9198	Personal Service Managers; Entertainment & Recreation Managers, Except Gambling; and Managers, All Other	4,900	5,134	234	4.8%	23	116	246	385	\$59.93 ^^^
13-0000	Business and Financial Operations Occupations	111,102	116,587	5,485	4.9%	548	2,987	6,689	10,224	\$30.63
13-1020	Buyers and Purchasing Agents	6,010	5,598	-412	-6.9%	-41	197	372	528	\$29.85
13-1031	Claims Adjusters, Examiners, and Investigators	4,485	4,218	-267	-6.0%	-27	102	226	301	\$31.08
13-1041	Compliance Officers	2,870	3,041	171	6.0%	17	71	157	245	\$30.51
13-1051	Cost Estimators	3,032	2,995	-37	-1.2%	-4	85	182	263	\$30.37
13-1071	Human Resources Specialists	9,632	10,477	845	8.8%	84	272	668	1,024	\$29.02

JobsOhio Regional Network - Northeast Region
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	
13-1075	Labor Relations Specialists	1,885	1,725	-160	-8.5%	-16	49	120	153	\$36.94
13-1081	Logisticians	2,209	2,877	668	30.2%	67	53	165	285	\$30.99
13-1111	Management Analysts	8,255	9,046	791	9.6%	79	278	498	855	\$38.25
13-1121	Meeting, Convention, and Event Planners	1,197	1,314	117	9.8%	12	38	92	142	\$23.24
13-1131	Fundraisers	1,736	1,909	173	10.0%	17	57	116	190	\$29.07
13-1141	Compensation, Benefits, and Job Analysis Specialists	966	1,049	83	8.6%	8	30	59	97	\$29.82
13-1151	Training and Development Specialists	4,122	4,414	292	7.1%	29	129	262	420	\$24.37
13-1161	Market Research Analysts and Marketing Specialists	9,062	10,539	1,477	16.3%	148	232	716	1,096	\$29.33
13-1198	Project Management Specialists and Business Operations Specialists, All Other	17,128	17,714	586	3.4%	59	404	854	1,317	\$35.90 ^^^
13-2011	Accountants and Auditors	19,043	19,866	823	4.3%	82	542	1,152	1,776	\$35.45
13-2020	Property Appraisers and Assessors	339	340	1	0.3%	0	13	12	25	\$30.46
13-2031	Budget Analysts	341	353	12	3.5%	1	8	18	27	\$37.03
13-2041	Credit Analysts	1,028	957	-71	-6.9%	-7	17	66	76	\$37.14
13-2052	Personal Financial Advisors	3,852	3,958	106	2.8%	11	88	192	291	\$39.44
13-2061	Financial Examiners	1,389	1,683	294	21.2%	29	41	71	141	\$35.00
13-2071	Credit Counselors	276	293	17	6.2%	2	6	16	24	\$23.45
13-2072	Loan Officers	3,699	3,603	-96	-2.6%	-10	78	199	267	\$29.96
13-2081	Tax Examiners and Collectors, and Revenue Agents	198	194	-4	-2.0%	0	8	9	17	\$27.66
13-2082	Tax Preparers	839	845	6	0.7%	1	46	46	93	\$15.53
13-2098	Financial and Investment Analysts, Financial Risk Specialists, and Financial Specialists, All Other	4,915	5,112	197	4.0%	20	88	286	394	\$35.21 ^^^
15-0000	Computer and Mathematical Occupations	53,153	58,874	5,721	10.8%	572	1,153	2,765	4,490	\$38.20
15-1211	Computer Systems Analysts	9,145	9,741	596	6.5%	60	184	465	709	\$45.66
15-1212	Information Security Analysts	1,144	1,477	333	29.1%	33	20	72	125	\$47.62
15-1231	Computer Network Support Specialists	2,691	2,831	140	5.2%	14	52	146	212	\$29.02
15-1232	Computer User Support Specialists	6,889	7,371	482	7.0%	48	134	377	559	\$23.10
15-1241	Computer Network Architects	1,768	1,790	22	1.2%	2	24	81	107	\$49.57
15-1244	Network and Computer Systems Administrators	4,221	4,252	31	0.7%	3	71	200	274	\$38.27
15-1245	Database Administrators and Architects	1,463	1,543	80	5.5%	8	35	74	117	\$47.44 ^^^
15-1251	Computer Programmers	1,477	1,305	-172	-11.7%	-17	28	64	75	\$30.22
15-1256	Software Developers and Software Quality Assurance Analysts and Testers	16,852	20,011	3,159	18.8%	316	427	904	1,647	\$49.49 ^^^
15-1257	Web Developers and Digital Interface Designers	1,599	1,739	140	8.8%	14	39	82	135	\$49.49 ^^^
15-1299	Computer Occupations, All Other	3,244	3,480	236	7.3%	24	78	165	267	\$42.70
15-2031	Operations Research Analysts	1,258	1,557	299	23.8%	30	30	61	121	\$38.25
15-2098	Data Scientists and Mathematical Science Occupations, All Other	642	824	182	28.4%	18	15	37	70	\$30.03 ^^^
17-0000	Architecture and Engineering Occupations	28,796	30,001	1,205	4.2%	120	688	1,379	2,187	\$37.38
17-1011	Architects, Except Landscape and Naval	1,046	1,063	17	1.6%	2	29	45	76	\$37.61
17-1022	Surveyors	420	422	2	0.5%	0	14	21	35	\$29.62
17-2031	Biomedical Engineers	219	221	2	0.9%	0	5	9	14	\$45.82
17-2041	Chemical Engineers	453	495	42	9.3%	4	9	18	31	\$47.76

JobsOhio Regional Network - Northeast Region
Occupational* Employment Projections Report, 2020-2030

SOC Code	Occupational Title	Employment*		Change in Employment		Annual Openings				Median Wage May 2021
		2020 Annual	2030 Projected	2020-2030	Percent	Growth	Exits	Transfers	Total	
17-2051	Civil Engineers	2,288	2,428	140	6.1%	14	47	118	179	\$38.52
17-2061	Computer Hardware Engineers	256	258	2	0.8%	0	5	12	17	\$47.60
17-2071	Electrical Engineers	2,301	2,418	117	5.1%	12	56	94	162	\$45.82
17-2072	Electronics Engineers, Except Computer	681	694	13	1.9%	1	16	28	45	\$45.84
17-2081	Environmental Engineers	298	305	7	2.4%	1	7	15	23	\$58.66
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	181	195	14	7.7%	1	4	8	13	\$46.68
17-2112	Industrial Engineers	4,348	4,803	455	10.5%	46	100	183	329	\$38.43
17-2131	Materials Engineers	900	952	52	5.8%	5	19	36	60	\$38.38
17-2141	Mechanical Engineers	4,838	5,136	298	6.2%	30	86	205	321	\$37.65
17-2199	Engineers, All Other	1,998	2,044	46	2.3%	5	43	83	131	\$45.82
17-3011	Architectural and Civil Drafters	858	850	-8	-0.9%	-1	26	54	79	\$24.28
17-3013	Mechanical Drafters	875	821	-54	-6.2%	-5	26	54	75	\$28.69
17-3022	Civil Engineering Technicians	493	485	-8	-1.6%	-1	15	30	44	\$29.19
17-3023	Electrical and Electronics Engineering Technicians	821	793	-28	-3.4%	-3	24	50	71	\$30.94
17-3025	Environmental Engineering Technicians	193	199	6	3.1%	1	6	12	19	\$23.49
17-3026	Industrial Engineering Technicians	1,001	1,024	23	2.3%	2	30	62	94	\$23.45
17-3027	Mechanical Engineering Technicians	838	865	27	3.2%	3	26	52	81	\$28.42
17-3031	Surveying and Mapping Technicians	334	332	-2	-0.6%	0	12	29	41	\$22.78
17-3098	Calibration and Engineering Technologists and Technicians, Except Drafters, All Other	902	921	19	2.1%	2	27	56	85	\$29.18 ^^^
19-0000	Life, Physical, and Social Science Occupations	13,938	14,849	911	6.5%	91	303	998	1,392	\$30.90
19-1012	Food Scientists and Technologists	442	465	23	5.2%	2	10	38	50	\$45.22
19-1023	Zoologists and Wildlife Biologists	107	117	10	9.4%	1	2	8	11	\$30.65
19-1031	Conservation Scientists	319	329	10	3.1%	1	6	23	30	\$22.87
19-1042	Medical Scientists, Except Epidemiologists	1,724	1,970	246	14.3%	25	24	106	155	\$38.23
19-2031	Chemists	1,223	1,294	71	5.8%	7	18	94	119	\$37.24
19-2032	Materials Scientists	109	113	4	3.7%	0	2	8	10	\$45.57
19-2041	Environmental Scientists and Specialists, Including Health	567	598	31	5.5%	3	10	46	59	\$30.89
19-3031	Clinical, Counseling, and School Psychologists	1,641	1,758	117	7.1%	12	44	66	122	\$38.96 ^^^
19-3039	Psychologists, All Other	432	431	-1	-0.2%	0	11	17	28	\$50.77
19-3051	Urban and Regional Planners	314	323	9	2.9%	1	5	22	28	\$31.20
19-3099	Social Scientists and Related Workers, All Other	204	219	15	7.4%	2	5	14	21	\$38.86
19-4021	Biological Technicians	1,545	1,688	143	9.3%	14	38	162	214	\$23.84
19-4031	Chemical Technicians	997	1,018	21	2.1%	2	18	91	111	\$23.54
19-4042	Environmental Science and Protection Technicians, Including Health	407	441	34	8.4%	3	11	40	54	\$22.91
19-4061	Social Science Research Assistants	187	197	10	5.4%	1	5	18	24	\$27.82
19-4092	Forensic Science Technicians	178	197	19	10.7%	2	5	18	25	\$29.89
19-4099	Life, Physical, and Social Science Technicians, All Other	452	477	25	5.5%	2	12	44	58	\$23.46
19-5011	Occupational Health and Safety Specialists	1,397	1,441	44	3.2%	4	39	61	104	\$37.39
19-5012	Occupational Health and Safety Technicians	232	244	12	5.2%	1	6	10	17	\$23.39

JobsOhio Regional Network - Northeast Region

Occupational* Employment Projections Report, 2020-2030

SOC Code	Occupational Title	Employment*		Change in Employment		Annual Openings				Median Wage May 2021
		2020 Annual	2030 Projected	2020-2030	Percent	Growth	Exits	Transfers	Total	
21-0000	Community and Social Service Occupations	36,513	39,934	3,421	9.4%	342	1,297	2,458	4,097	\$22.90
21-1012	Educational, Guidance, School, and Vocational Counselors	4,060	4,404	344	8.5%	34	138	251	423	\$29.24
21-1013	Marriage and Family Therapists	103	110	7	6.8%	1	4	6	11	\$24.93
21-1015	Rehabilitation Counselors	1,574	1,782	208	13.2%	21	55	99	175	\$18.51
21-1018	Substance Abuse, Behavioral Disorder, and Mental Health Counselors	3,473	4,031	558	16.1%	56	122	222	400	\$22.62
21-1021	Child, Family, and School Social Workers	4,775	5,194	419	8.8%	42	140	315	497	\$22.95
21-1022	Healthcare Social Workers	2,353	2,475	122	5.2%	12	68	152	232	\$29.03
21-1023	Mental Health and Substance Abuse Social Workers	2,547	2,884	337	13.2%	34	76	172	282	\$22.18
21-1029	Social Workers, All Other	1,508	1,612	104	6.9%	10	44	99	153	\$26.76
21-1091	Health Educators	964	998	34	3.5%	3	33	68	104	\$29.19
21-1092	Probation Officers and Correctional Treatment Specialists	947	952	5	0.5%	0	21	57	78	\$24.03
21-1093	Social and Human Service Assistants	6,700	7,390	690	10.3%	69	281	532	882	\$17.69
21-1094	Community Health Workers	746	853	107	14.3%	11	27	55	93	\$18.44
21-1099	Community and Social Service Specialists, All Other	697	758	61	8.8%	6	25	50	81	\$22.97
21-2011	Clergy	4,606	4,931	325	7.1%	32	196	275	503	\$23.73
23-0000	Legal Occupations	16,215	17,332	1,117	6.9%	112	474	687	1,273	\$36.21
23-1011	Lawyers	8,469	9,097	628	7.4%	63	190	216	469	\$49.30
23-1012	Judicial Law Clerks	113	114	1	0.9%	0	4	4	8	\$23.50
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	208	209	1	0.5%	0	4	5	9	\$55.39
23-1022	Arbitrators, Mediators, and Conciliators	145	157	12	8.3%	1	3	4	8	\$31.43
23-1023	Judges, Magistrate Judges, and Magistrates	895	899	4	0.5%	0	19	22	41	\$47.93
23-2011	Paralegals and Legal Assistants	5,094	5,590	496	9.7%	50	207	361	618	\$22.65
23-2093	Title Examiners, Abstractors, and Searchers	868	850	-18	-2.1%	-2	31	50	79	\$23.52
25-0000	Education, Training, and Library Occupations	102,995	109,952	6,957	6.8%	696	4,109	4,756	9,561	\$29.24
25-1011	Business Teachers, Postsecondary	924	954	30	3.3%	3	42	44	89	\$72,829 **
25-1021	Computer Science Teachers, Postsecondary	278	286	8	2.9%	1	13	13	27	\$79,927 **
25-1022	Mathematical Science Teachers, Postsecondary	495	513	18	3.6%	2	22	24	48	\$76,191 **
25-1042	Biological Science Teachers, Postsecondary	444	486	42	9.5%	4	21	22	47	\$64,388 **
25-1052	Chemistry Teachers, Postsecondary	244	254	10	4.1%	1	11	12	24	\$77,449 **
25-1054	Physics Teachers, Postsecondary	156	162	6	3.9%	1	7	7	15	\$76,584 **
25-1063	Economics Teachers, Postsecondary	182	191	9	5.0%	1	8	9	18	\$76,751 **
25-1065	Political Science Teachers, Postsecondary	143	151	8	5.6%	1	7	7	15	\$77,629 **
25-1066	Psychology Teachers, Postsecondary	415	444	29	7.0%	3	19	20	42	\$77,629 **
25-1067	Sociology Teachers, Postsecondary	160	167	7	4.4%	1	7	8	16	\$77,629 **
25-1071	Health Specialties Teachers, Postsecondary	908	1,068	160	17.6%	16	44	46	106	\$158,455 **
25-1072	Nursing Instructors and Teachers, Postsecondary	1,028	1,221	193	18.8%	19	50	52	121	\$74,354 **
25-1081	Education Teachers, Postsecondary	730	763	33	4.5%	3	33	35	71	\$61,380 **
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	268	291	23	8.6%	2	12	13	27	\$61,221 **
25-1113	Social Work Teachers, Postsecondary	174	181	7	4.0%	1	8	8	17	\$77,629 **
25-1121	Art, Drama, and Music Teachers, Postsecondary	1,453	1,580	127	8.7%	13	68	71	152	\$63,200 **

JobsOhio Regional Network - Northeast Region

Occupational* Employment Projections Report, 2020-2030

SOC Code	Occupational Title	Employment*		Change in Employment		Annual Openings				Median Wage May 2021
		2020 Annual	2030 Projected	2020-2030	Percent	Growth	Exits	Transfers	Total	
25-1122	Communications Teachers, Postsecondary	335	350	15	4.5%	2	15	16	33	\$64,266 **
25-1123	English Language and Literature Teachers, Postsecondary	685	711	26	3.8%	3	31	33	67	\$62,072 **
25-1124	Foreign Language and Literature Teachers, Postsecondary	332	346	14	4.2%	1	15	16	32	\$63,742 **
25-1125	History Teachers, Postsecondary	227	238	11	4.9%	1	10	11	22	\$77,629 **
25-1193	Recreation and Fitness Studies Teachers, Postsecondary	189	195	6	3.2%	1	9	9	19	\$61,380 **
25-1194	Vocational Education Teachers, Postsecondary	1,001	1,044	43	4.3%	4	46	48	98	\$23.97
25-1199	Postsecondary Teachers, All Other	1,679	1,667	-12	-0.7%	-1	75	78	152	\$64,645 **
25-2011	Preschool Teachers, Except Special Education	4,555	5,395	840	18.4%	84	204	290	578	\$13.86
25-2012	Kindergarten Teachers, Except Special Education	892	948	56	6.3%	6	38	54	98	\$60,747 **
25-2021	Elementary School Teachers, Except Special Education	19,306	20,255	949	4.9%	95	607	793	1,495	\$72,279 **
25-2022	Middle School Teachers, Except Special and Career/Technical Education	11,176	11,735	559	5.0%	56	352	459	867	\$75,328 **
25-2031	Secondary School Teachers, Except Special and Career/Technical Education	15,709	16,579	870	5.5%	87	428	655	1,170	\$76,047 **
25-2052	Special Education Teachers, Kindergarten and Elementary School	1,973	2,085	112	5.7%	11	66	81	158	\$71,956 **
25-2057	Special Education Teachers, Middle School	1,153	1,210	57	4.9%	6	38	47	91	\$62,423 **
25-2058	Special Education Teachers, Secondary School	2,531	2,686	155	6.1%	16	85	104	205	\$62,073 **
25-2059	Special Education Teachers, All Other	245	279	34	13.9%	3	8	10	21	\$48,718 **
25-3011	Adult Basic and Secondary Education and Literacy Teachers and Instructors	436	400	-36	-8.3%	-4	25	22	43	\$24.10
25-3021	Self-Enrichment Education Teachers	3,511	4,197	686	19.5%	69	230	206	505	\$14.95
25-3031	Substitute Teachers, Short-Term	1,830	2,003	173	9.5%	17	114	103	234	\$14.01
25-3097	Teachers and Instructors, All Other, Except Substitute Teachers	3,424	3,777	353	10.3%	35	215	193	443	\$17.94 ^^^
25-4022	Librarians and Media Collections Specialists	1,879	1,959	80	4.3%	8	94	84	186	\$23.98
25-4031	Library Technicians	1,236	1,158	-78	-6.3%	-8	99	74	165	\$17.47
25-9031	Instructional Coordinators	1,550	1,648	98	6.3%	10	79	70	159	\$30.61
25-9045	Teaching Assistants, Except Postsecondary	14,453	15,427	974	6.7%	97	668	698	1,463	\$28,929 **
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations	26,003	27,169	1,166	4.5%	117	1,046	1,710	2,873	\$22.75
27-1011	Art Directors	601	627	26	4.3%	3	30	32	65	\$37.91
27-1012	Craft Artists	126	108	-18	-14.3%	-2	6	6	10	\$18.33
27-1013	Fine Artists, Including Painters, Sculptors, and Illustrators	173	196	23	13.3%	2	9	10	21	\$19.19
27-1014	Multimedia Artists and Animators	137	140	3	2.2%	0	7	7	14	\$28.70
27-1021	Commercial and Industrial Designers	488	505	17	3.5%	2	15	30	47	\$30.86
27-1023	Floral Designers	628	482	-146	-23.3%	-15	17	33	35	\$13.63
27-1024	Graphic Designers	3,361	3,169	-192	-5.7%	-19	100	194	275	\$23.51
27-1025	Interior Designers	1,033	1,013	-20	-1.9%	-2	31	61	90	\$23.64
27-1026	Merchandise Displayers and Window Trimmers	1,730	1,716	-14	-0.8%	-1	53	102	154	\$14.52
27-1027	Set and Exhibit Designers	141	133	-8	-5.7%	-1	4	8	11	\$25.20
27-1029	Designers, All Other	124	118	-6	-4.8%	-1	4	7	10	\$18.86
27-2012	Producers and Directors	570	609	39	6.8%	4	13	37	54	\$29.46
27-2022	Coaches and Scouts	4,734	5,210	476	10.1%	48	282	400	730	\$36,962 **
27-2041	Music Directors and Composers	578	619	41	7.1%	4	35	34	73	\$24.06
27-2042	Musicians and Singers	1,565	1,716	151	9.7%	15	96	92	203	\$39.14

JobsOhio Regional Network - Northeast Region

Occupational* Employment Projections Report, 2020-2030

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27-2090	Miscellaneous Entertainers and Performers, Sports and Related Workers	222	295	73	32.9%	7	10	14	31	\$17.59 ^
27-3011	Radio and Television Announcers	327	322	-5	-1.5%	0	13	18	31	\$14.40
27-3023	News Analysts, Reporters, and Journalists	659	651	-8	-1.2%	-1	19	50	68	\$18.56
27-3031	Public Relations Specialists	2,300	2,431	131	5.7%	13	59	155	227	\$29.79
27-3041	Editors	728	701	-27	-3.7%	-3	23	45	65	\$29.24
27-3042	Technical Writers	391	425	34	8.7%	3	11	25	39	\$30.30
27-3043	Writers and Authors	1,070	1,072	2	0.2%	0	43	59	102	\$22.71
27-3091	Interpreters and Translators	746	899	153	20.5%	15	32	45	92	\$23.35
27-4011	Audio and Video Equipment Technicians	606	715	109	18.0%	11	17	48	76	\$21.68
27-4012	Broadcast Technicians	250	253	3	1.2%	0	7	18	25	\$23.36
27-4014	Sound Engineering Technicians	118	120	2	1.7%	0	3	9	12	\$22.70
27-4021	Photographers	1,095	1,215	120	11.0%	12	39	65	116	\$18.21
27-4098	Lighting Technicians and Media and Communication Equipment Workers, All Other	106	119	13	12.3%	1	3	8	12	\$23.52 ^^^
29-0000	Healthcare Practitioners and Technical Occupations	142,977	150,554	7,577	5.3%	758	3,744	4,444	8,946	\$30.43
29-1011	Chiropractors	820	822	2	0.2%	0	12	7	19	\$29.11
29-1021	Dentists, General	1,399	1,374	-25	-1.8%	-2	26	12	36	\$78.92
29-1031	Dietitians and Nutritionists	961	1,004	43	4.5%	4	32	34	70	\$29.40
29-1041	Optometrists	435	433	-2	-0.5%	0	8	5	13	\$48.70
29-1051	Pharmacists	5,148	4,979	-169	-3.3%	-17	93	97	173	\$61.72
29-1071	Physician Assistants	2,417	3,065	648	26.8%	65	43	108	216	\$49.67
29-1081	Podiatrists	172	161	-11	-6.4%	-1	4	7	10	\$62.09
29-1122	Occupational Therapists	2,592	2,877	285	11.0%	28	59	89	176	\$38.99
29-1123	Physical Therapists	3,815	4,256	441	11.6%	44	80	84	208	\$45.93
29-1124	Radiation Therapists	226	238	12	5.3%	1	4	7	12	\$38.40
29-1125	Recreational Therapists	291	289	-2	-0.7%	0	9	13	22	\$22.81
29-1126	Respiratory Therapists	2,645	3,172	527	19.9%	53	62	73	188	\$29.78
29-1127	Speech-Language Pathologists	2,362	2,868	506	21.4%	51	61	94	206	\$38.34
29-1128	Exercise Physiologists	191	206	15	7.9%	2	6	7	15	\$28.55
29-1129	Therapists, All Other	151	164	13	8.6%	1	5	5	11	\$28.42
29-1131	Veterinarians	834	957	123	14.8%	12	14	14	40	\$47.52
29-1141	Registered Nurses	47,492	49,684	2,192	4.6%	219	1,296	1,222	2,737	\$35.75
29-1151	Nurse Anesthetists	1,246	1,275	29	2.3%	3	25	38	66	\$81.26
29-1171	Nurse Practitioners	3,348	4,685	1,337	39.9%	134	84	126	344	\$50.68
29-1181	Audiologists	205	222	17	8.3%	2	5	4	11	\$29.24
29-1211	Anesthesiologists	428	403	-25	-5.8%	-2	7	5	10	#
29-1215	Family Medicine Physicians	612	597	-15	-2.5%	-2	10	7	15	\$67.70
29-1216	General Internal Medicine Physicians	817	722	-95	-11.6%	-10	12	9	11	#
29-1218	Obstetricians and Gynecologists	304	280	-24	-7.9%	-2	5	3	6	#
29-1292	Dental Hygienists	3,536	3,580	44	1.2%	4	128	89	221	\$36.84

JobsOhio Regional Network - Northeast Region
Occupational* Employment Projections Report, 2020-2030

SOC Code	Occupational Title	Employment*		Change in Employment		Annual Openings				Median Wage May 2021
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29-1298	Acupuncturists and Healthcare Diagnosing or Treating Practitioners, All Other	340	355	15	4.4%	2	15	5	22	\$37.45 ^^^
29-2010	Clinical Laboratory Technologists and Technicians	4,351	4,594	243	5.6%	24	115	166	305	\$28.20
29-2031	Cardiovascular Technologists and Technicians	822	873	51	6.2%	5	23	36	64	\$29.50
29-2032	Diagnostic Medical Sonographers	1,262	1,438	176	14.0%	18	37	58	113	\$36.06
29-2033	Nuclear Medicine Technologists	348	368	20	5.8%	2	10	15	27	\$37.48
29-2034	Radiologic Technologists	3,510	3,667	157	4.5%	16	98	154	268	\$29.12
29-2035	Magnetic Resonance Imaging Technologists	594	616	22	3.7%	2	16	26	44	\$36.06
29-2040	Emergency Medical Technicians and Paramedics	3,663	3,652	-11	-0.3%	-1	68	169	236	\$17.76 ^
29-2051	Dietetic Technicians	363	378	15	4.1%	2	10	16	28	\$14.54
29-2052	Pharmacy Technicians	6,376	6,516	140	2.2%	14	176	277	467	\$16.54
29-2053	Psychiatric Technicians	448	522	74	16.5%	7	13	21	41	\$17.22
29-2055	Surgical Technologists	1,433	1,503	70	4.9%	7	40	63	110	\$23.21
29-2056	Veterinary Technologists and Technicians	1,391	1,579	188	13.5%	19	40	64	123	\$17.57
29-2057	Ophthalmic Medical Technicians	855	870	15	1.8%	2	24	37	63	\$17.85
29-2061	Licensed Practical and Licensed Vocational Nurses	15,538	15,622	84	0.5%	8	525	650	1,183	\$22.81
29-2081	Opticians, Dispensing	1,308	1,347	39	3.0%	4	55	45	104	\$21.96
29-2091	Orthotists and Prosthetists	510	562	52	10.2%	5	15	23	43	\$28.26
29-2098	Medical Dosimetrists, Medical Records Specialists, and Health Technologists and Technicians, All Other	6,355	6,582	227	3.6%	23	176	278	477	\$22.55 ^^^
29-9098	Health Information Technologists, Medical Registrars, Surgical Assistants, & Healthcare Practitioners, AO	845	901	56	6.6%	6	24	38	68	\$26.19 ^^^
31-0000	Healthcare Support Occupations	86,899	96,033	9,134	10.5%	913	5,361	5,645	11,919	\$14.12
31-1120	Home Health and Personal Care Aides	35,237	41,945	6,708	19.0%	671	2,471	2,185	5,327	\$11.49
31-1131	Nursing Assistants	25,222	25,036	-186	-0.7%	-19	1,609	1,423	3,013	\$14.38
31-1132	Orderlies	998	1,056	58	5.8%	6	66	58	130	\$14.25
31-2011	Occupational Therapy Assistants	2,036	2,611	575	28.2%	58	116	170	344	\$29.51
31-2021	Physical Therapist Assistants	2,410	2,915	505	21.0%	50	114	201	365	\$29.60
31-2022	Physical Therapist Aides	404	451	47	11.6%	5	18	32	55	\$14.31
31-9011	Massage Therapists	1,127	1,264	137	12.2%	14	70	62	146	\$22.55
31-9091	Dental Assistants	3,512	3,548	36	1.0%	4	161	248	413	\$18.17
31-9092	Medical Assistants	9,461	10,269	808	8.5%	81	405	737	1,223	\$17.58
31-9093	Medical Equipment Preparers	843	884	41	4.9%	4	48	57	109	\$18.07
31-9094	Medical Transcriptionists	200	149	-51	-25.5%	-5	9	15	19	\$11.21
31-9095	Pharmacy Aides	341	275	-66	-19.4%	-7	16	24	33	\$14.17
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	1,344	1,525	181	13.5%	18	70	158	246	\$14.24
31-9097	Phlebotomists	2,433	2,691	258	10.6%	26	110	186	322	\$17.65
31-9099	Healthcare Support Workers, All Other	925	970	45	4.9%	4	52	62	118	\$17.80
33-0000	Protective Service Occupations	41,920	41,929	9	0.0%	1	2,050	2,657	4,708	\$22.81
33-1011	First-Line Supervisors of Correctional Officers	222	216	-6	-2.7%	-1	7	10	16	\$31.74
33-1012	First-Line Supervisors of Police and Detectives	1,020	1,042	22	2.2%	2	23	42	67	\$40.61

JobsOhio Regional Network - Northeast Region

Occupational* Employment Projections Report, 2020-2030

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33-1021	First-Line Supervisors of Fire Fighting and Prevention Workers	672	692	20	3.0%	2	16	28	46	\$37.43
33-1090	Miscellaneous First-Line Supervisors, Protective Service Workers	676	669	-7	-1.0%	-1	25	39	63	\$25.23 ^
33-2011	Firefighters	6,657	6,897	240	3.6%	24	149	350	523	\$24.13
33-3011	Bailiffs	519	506	-13	-2.5%	-1	19	28	46	\$22.43
33-3012	Correctional Officers and Jailers	5,268	4,716	-552	-10.5%	-55	188	270	403	\$23.04
33-3021	Detectives and Criminal Investigators	691	697	6	0.9%	1	18	32	51	\$37.30
33-3051	Police and Sheriff's Patrol Officers	9,017	9,215	198	2.2%	20	228	463	711	\$30.75
33-9011	Animal Control Workers	188	204	16	8.5%	2	6	10	18	\$18.83
33-9032	Security Guards	10,362	9,866	-496	-4.8%	-50	536	783	1,269	\$14.02
33-9091	Crossing Guards	1,513	1,699	186	12.3%	19	234	83	336	\$14.20
33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	1,815	2,091	276	15.2%	28	269	217	514	\$10.82
33-9098	School Bus Monitors and Protective Service Workers, All Other	2,053	2,165	112	5.5%	11	290	234	535	\$15.11 ^^^
35-0000	Food Preparation and Serving Related Occupations	155,933	174,594	18,661	12.0%	1,866	12,707	16,862	31,435	\$10.96
35-1011	Chefs and Head Cooks	1,031	1,186	155	15.0%	16	33	109	158	\$24.91
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	13,050	15,078	2,028	15.5%	203	628	1,433	2,264	\$15.94
35-2011	Cooks, Fast Food	6,616	6,157	-459	-6.9%	-46	376	547	877	\$10.64
35-2012	Cooks, Institution and Cafeteria	8,249	8,299	50	0.6%	5	487	708	1,200	\$14.38
35-2014	Cooks, Restaurant	12,672	17,862	5,190	41.0%	519	898	1,307	2,724	\$13.85
35-2015	Cooks, Short Order	1,303	1,350	47	3.6%	5	78	114	197	\$12.33
35-2021	Food Preparation Workers	6,722	6,882	160	2.4%	16	534	626	1,176	\$11.64
35-3011	Bartenders	7,121	8,635	1,514	21.3%	151	357	955	1,463	\$10.22
35-3023	Fast Food and Counter Workers	57,888	62,958	5,070	8.8%	507	5,859	6,388	12,754	\$10.71
35-3031	Waiters and Waitresses	24,442	27,563	3,121	12.8%	312	1,909	3,105	5,326	\$9.86
35-3041	Food Servers, Nonrestaurant	5,234	5,331	97	1.9%	10	418	412	840	\$12.12
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	2,763	3,315	552	20.0%	55	262	263	580	\$11.52
35-9021	Dishwashers	4,734	5,257	523	11.1%	52	376	418	846	\$10.86
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	3,440	4,077	637	18.5%	64	445	423	932	\$10.60
35-9099	Food Preparation and Serving Related Workers, All Other	287	325	38	13.2%	4	26	26	56	\$10.98
37-0000	Building and Grounds Cleaning and Maintenance Occupations	63,680	64,348	668	1.1%	67	3,600	4,714	8,381	\$14.29
37-1011	First-Line Supervisors of Housekeeping and Janitorial Workers	2,113	2,091	-22	-1.0%	-2	90	145	233	\$21.82
37-1012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	1,909	1,863	-46	-2.4%	-5	58	135	188	\$23.00
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	29,414	29,935	521	1.8%	52	1,852	2,080	3,984	\$14.05
37-2012	Maids and Housekeeping Cleaners	11,922	11,945	23	0.2%	2	811	768	1,581	\$11.86
37-3011	Landscaping and Groundskeeping Workers	16,957	17,135	178	1.1%	18	733	1,462	2,213	\$14.55
39-0000	Personal Care and Service Occupations	48,831	51,980	3,149	6.5%	315	3,137	3,855	7,307	\$12.01
39-2021	Nonfarm Animal Caretakers	3,613	4,472	859	23.8%	86	259	336	681	\$11.14
39-3031	Ushers, Lobby Attendants, and Ticket Takers	1,090	1,389	299	27.4%	30	157	126	313	\$10.80
39-3091	Amusement and Recreation Attendants	3,714	4,301	587	15.8%	59	391	449	899	\$10.29
39-3093	Locker Room, Coatroom, and Dressing Room Attendants	125	148	23	18.4%	2	13	15	30	\$11.49
39-4021	Funeral Attendants	968	965	-3	-0.3%	0	55	73	128	\$14.00

JobsOhio Regional Network - Northeast Region

Occupational* Employment Projections Report, 2020-2030

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39-5012	Hairdressers, Hairstylists, and Cosmetologists	12,751	12,175	-576	-4.5%	-58	660	692	1,294	\$13.67
39-5092	Manicurists and Pedicurists	1,590	1,620	30	1.9%	3	82	85	170	\$10.98
39-6012	Concierges	436	442	6	1.4%	1	23	34	58	\$14.55
39-7010	Tour and Travel Guides	285	375	90	31.6%	9	21	31	61	\$13.70
39-9011	Childcare Workers	9,385	9,414	29	0.3%	3	632	657	1,292	\$11.09
39-9031	Fitness Trainers and Aerobics Instructors	3,682	4,419	737	20.0%	74	237	384	695	\$14.23
39-9032	Recreation Workers	4,794	5,121	327	6.8%	33	290	471	794	\$12.89
39-9041	Residential Advisors	1,063	1,205	142	13.4%	14	57	102	173	\$14.73
41-0000	Sales and Related Occupations	190,932	183,270	-7,662	-4.0%	-766	9,382	14,764	23,380	\$14.15
41-1011	First-Line Supervisors of Retail Sales Workers	17,487	16,291	-1,196	-6.8%	-120	597	1,170	1,647	\$18.20
41-1012	First-Line Supervisors of Non-Retail Sales Workers	5,013	4,561	-452	-9.0%	-45	139	284	378	\$37.56
41-2011	Cashiers	40,384	35,949	-4,435	-11.0%	-444	3,247	3,654	6,457	\$10.96
41-2022	Parts Salespersons	3,599	3,778	179	5.0%	18	155	282	455	\$14.41
41-2031	Retail Salespersons	50,354	49,116	-1,238	-2.5%	-124	2,781	4,108	6,765	\$12.81
41-3011	Advertising Sales Agents	1,103	969	-134	-12.2%	-13	32	96	115	\$23.26
41-3021	Insurance Sales Agents	7,045	7,480	435	6.2%	44	242	406	692	\$29.35
41-3031	Securities, Commodities, and Financial Services Sales Agents	6,679	6,579	-100	-1.5%	-10	147	418	555	\$24.47
41-3041	Travel Agents	516	511	-5	-1.0%	0	25	34	59	\$17.80
41-3091	Sales Representatives of Services, Except Advertising, Insurance, Financial Services, and Travel	10,206	10,794	588	5.8%	59	264	923	1,246	\$23.75
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	3,057	3,113	56	1.8%	6	91	208	305	\$47.40
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	25,349	25,731	382	1.5%	38	755	1,726	2,519	\$29.73
41-9022	Real Estate Sales Agents	4,020	4,021	1	0.0%	0	167	177	344	\$17.65
41-9031	Sales Engineers	821	811	-10	-1.2%	-1	16	67	82	\$47.76
41-9041	Telemarketers	7,564	6,200	-1,364	-18.0%	-136	318	703	885	\$13.53
43-0000	Office and Administrative Support Occupations	260,750	246,182	-14,568	-5.6%	-1,457	12,026	15,733	26,302	\$18.13
43-1011	First-Line Supervisors of Office and Administrative Support Workers	16,566	15,784	-782	-4.7%	-78	600	988	1,510	\$28.99
43-2011	Switchboard Operators, Including Answering Service	863	647	-216	-25.0%	-22	39	44	61	\$17.57
43-3011	Bill and Account Collectors	3,372	3,083	-289	-8.6%	-29	118	229	318	\$17.74
43-3021	Billing and Posting Clerks	6,830	6,796	-34	-0.5%	-3	280	418	695	\$18.12
43-3031	Bookkeeping, Accounting, and Auditing Clerks	21,195	20,003	-1,192	-5.6%	-119	1,207	1,052	2,140	\$18.90
43-3051	Payroll and Timekeeping Clerks	2,182	1,827	-355	-16.3%	-36	95	110	169	\$22.13
43-3061	Procurement Clerks	1,073	1,018	-55	-5.1%	-6	29	66	89	\$18.45
43-3071	Tellers	6,142	4,692	-1,450	-23.6%	-145	220	341	416	\$16.85
43-3099	Financial Clerks, All Other	368	365	-3	-0.8%	0	13	26	39	\$22.73
43-4011	Brokerage Clerks	617	560	-57	-9.2%	-6	24	39	57	\$22.97
43-4031	Court, Municipal, and License Clerks	3,806	3,919	113	3.0%	11	188	194	393	\$18.23
43-4051	Customer Service Representatives	44,195	42,878	-1,317	-3.0%	-132	2,047	3,424	5,339	\$17.87

JobsOhio Regional Network - Northeast Region

Occupational* Employment Projections Report, 2020-2030

SOC Code	Occupational Title	Employment*		Change in Employment		Annual Openings				Median Wage May 2021
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43-4061	Eligibility Interviewers, Government Programs	1,639	1,668	29	1.8%	3	61	86	150	\$21.88
43-4071	File Clerks	947	779	-168	-17.7%	-17	47	53	83	\$17.59
43-4081	Hotel, Motel, and Resort Desk Clerks	1,681	1,924	243	14.5%	24	104	191	319	\$11.29
43-4111	Interviewers, Except Eligibility and Loan	1,776	1,592	-184	-10.4%	-18	97	109	188	\$17.83
43-4121	Library Assistants, Clerical	1,722	1,595	-127	-7.4%	-13	148	106	241	\$11.20
43-4131	Loan Interviewers and Clerks	2,519	2,391	-128	-5.1%	-13	71	144	202	\$19.21
43-4141	New Accounts Clerks	338	276	-62	-18.3%	-6	10	19	23	\$22.58
43-4151	Order Clerks	1,706	1,378	-328	-19.2%	-33	66	97	130	\$17.91
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	1,198	1,153	-45	-3.8%	-4	45	71	112	\$19.69
43-4171	Receptionists and Information Clerks	12,206	11,743	-463	-3.8%	-46	668	827	1,449	\$14.09
43-4181	Reservation and Transportation Ticket Agents and Travel Clerks	605	654	49	8.1%	5	24	45	74	\$17.07
43-4199	Information and Record Clerks, All Other	962	1,006	44	4.6%	4	40	65	109	\$21.00
43-5011	Cargo and Freight Agents	802	830	28	3.5%	3	31	48	82	\$18.30
43-5021	Couriers and Messengers	882	799	-83	-9.4%	-8	34	46	72	\$14.44
43-5031	Police, Fire, and Ambulance Dispatchers	1,990	2,078	88	4.4%	9	72	114	195	\$22.89
43-5032	Dispatchers, Except Police, Fire, and Ambulance	2,839	2,850	11	0.4%	1	100	159	260	\$18.49
43-5041	Meter Readers, Utilities	576	520	-56	-9.7%	-6	16	24	34	\$28.54
43-5051	Postal Service Clerks	946	848	-98	-10.4%	-10	41	32	63	\$25.60
43-5052	Postal Service Mail Carriers	4,895	4,387	-508	-10.4%	-51	161	166	276	\$25.21
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	1,387	1,182	-205	-14.8%	-20	70	42	92	\$21.77
43-5061	Production, Planning, and Expediting Clerks	6,238	6,470	232	3.7%	23	227	413	663	\$23.10
43-5071	Shipping, Receiving, and Traffic Clerks	14,495	13,439	-1,056	-7.3%	-106	510	821	1,225	\$17.74
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	556	584	28	5.0%	3	22	32	57	\$18.13
43-6011	Executive Secretaries and Executive Administrative Assistants	4,172	3,292	-880	-21.1%	-88	190	208	310	\$29.13
43-6012	Legal Secretaries	2,082	1,613	-469	-22.5%	-47	94	103	150	\$22.46
43-6013	Medical Secretaries	12,197	12,667	470	3.9%	47	632	694	1,373	\$17.74
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	20,817	18,598	-2,219	-10.7%	-222	1,003	1,100	1,881	\$17.84
43-9021	Data Entry Keyers	2,217	1,724	-493	-22.2%	-49	88	125	164	\$17.13
43-9022	Word Processors and Typists	454	281	-173	-38.1%	-17	22	20	25	\$18.19
43-9041	Insurance Claims and Policy Processing Clerks	4,142	4,038	-104	-2.5%	-10	144	240	374	\$18.73
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	1,141	1,100	-41	-3.6%	-4	57	70	123	\$14.13
43-9061	Office Clerks, General	40,724	38,497	-2,227	-5.5%	-223	2,162	2,349	4,288	\$17.79
45-0000	Farming, Fishing, and Forestry Occupations	3,802	3,924	122	3.2%	12	162	438	612	\$15.14
45-1011	First-Line Supervisors of Farming, Fishing, and Forestry Workers	171	182	11	6.4%	1	6	18	25	\$26.97
45-2091	Agricultural Equipment Operators	343	383	40	11.7%	4	15	42	61	\$21.91
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	2,506	2,595	89	3.6%	9	108	292	409	\$14.33
45-2093	Farmworkers, Farm, Ranch, and Aquacultural Animals	348	329	-19	-5.5%	-2	14	39	51	\$13.73
47-0000	Construction and Extraction Occupations	71,931	74,973	3,042	4.2%	304	2,196	4,979	7,479	\$23.64
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	5,806	6,094	288	5.0%	29	168	385	582	\$30.12
47-2011	Boilermakers	266	273	7	2.6%	1	4	19	24	\$39.80

JobsOhio Regional Network - Northeast Region
Occupational* Employment Projections Report, 2020-2030

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47-2021	Brickmasons and Blockmasons	1,570	1,488	-82	-5.2%	-8	49	94	135	\$29.47
47-2031	Carpenters	8,780	8,963	183	2.1%	18	259	553	830	\$23.14
47-2041	Carpet Installers	298	281	-17	-5.7%	-2	8	17	23	\$18.85
47-2044	Tile and Marble Setters	285	316	31	10.9%	3	8	18	29	\$24.46
47-2051	Cement Masons and Concrete Finishers	1,835	1,809	-26	-1.4%	-3	44	120	161	\$23.70
47-2061	Construction Laborers	15,893	17,075	1,182	7.4%	118	487	1,113	1,718	\$22.22
47-2071	Paving, Surfacing, and Tamping Equipment Operators	308	320	12	3.9%	1	10	22	33	\$23.16
47-2073	Operating Engineers and Other Construction Equipment Operators	5,122	5,313	191	3.7%	19	171	374	564	\$28.73
47-2081	Drywall and Ceiling Tile Installers	266	279	13	4.9%	1	7	15	23	\$23.11
47-2082	Tapers	132	133	1	0.8%	0	3	8	11	\$29.02
47-2111	Electricians	8,179	8,699	520	6.4%	52	245	620	917	\$29.02
47-2121	Glaziers	500	531	31	6.2%	3	14	40	57	\$25.19
47-2131	Insulation Workers, Floor, Ceiling, and Wall	203	213	10	4.9%	1	5	14	20	\$18.70
47-2132	Insulation Workers, Mechanical	211	223	12	5.7%	1	5	15	21	\$28.90
47-2141	Painters, Construction and Maintenance	3,785	3,966	181	4.8%	18	117	215	350	\$21.96
47-2151	Pipelayers	234	239	5	2.1%	0	7	17	24	\$23.09
47-2152	Plumbers, Pipefitters, and Steamfitters	4,089	4,207	118	2.9%	12	121	298	431	\$29.77
47-2181	Roofers	2,479	2,609	130	5.2%	13	63	178	254	\$22.47
47-2211	Sheet Metal Workers	1,452	1,483	31	2.1%	3	40	95	138	\$28.86
47-2221	Structural Iron and Steel Workers	800	846	46	5.8%	5	21	63	89	\$29.44
47-3013	Helpers--Electricians	200	196	-4	-2.0%	0	6	17	23	\$14.81
47-3016	Helpers--Roofers	137	144	7	5.1%	1	4	12	17	\$17.97
47-4011	Construction and Building Inspectors	1,167	1,095	-72	-6.2%	-7	62	68	123	\$29.41
47-4031	Fence Erectors	293	299	6	2.1%	1	7	22	30	\$19.53
47-4041	Hazardous Materials Removal Workers	792	811	19	2.4%	2	30	65	97	\$22.92
47-4051	Highway Maintenance Workers	3,232	3,286	54	1.7%	5	128	204	337	\$22.58
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	722	772	50	6.9%	5	24	62	91	\$22.72
47-5013	Service Unit Operators, Oil, Gas, and Mining	145	141	-4	-2.8%	0	3	14	17	\$18.70
47-5022	Excavating and Loading Machine and Dragline Operators, Surface Mining	159	157	-2	-1.3%	0	5	14	19	\$22.58
47-5071	Roustabouts, Oil and Gas	185	206	21	11.4%	2	4	19	25	\$14.70
49-0000	Installation, Maintenance, and Repair Occupations	80,265	82,661	2,396	3.0%	240	2,586	5,130	7,956	\$22.94
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	5,525	5,688	163	3.0%	16	163	334	513	\$30.75
49-2011	Computer, Automated Teller, and Office Machine Repairers	1,765	1,560	-205	-11.6%	-20	50	126	156	\$18.49
49-2021	Radio, Cellular, and Tower Equipment Installers and Repairers	146	142	-4	-2.7%	0	5	11	16	\$28.01
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	1,969	1,782	-187	-9.5%	-19	65	144	190	\$29.42
49-2092	Electric Motor, Power Tool, and Related Repairers	379	406	27	7.1%	3	15	23	41	\$23.09
49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipment	147	141	-6	-4.1%	-1	4	7	10	\$30.03 †
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	536	559	23	4.3%	2	15	27	44	\$24.71
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	317	305	-12	-3.8%	-1	9	15	23	\$38.58
49-2098	Security and Fire Alarm Systems Installers	1,000	959	-41	-4.1%	-4	23	75	94	\$23.09

JobsOhio Regional Network - Northeast Region
Occupational* Employment Projections Report, 2020-2030

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49-3011	Aircraft Mechanics and Service Technicians	994	1,060	66	6.6%	7	29	54	90	\$30.57
49-3021	Automotive Body and Related Repairers	1,953	2,016	63	3.2%	6	63	118	187	\$22.52
49-3022	Automotive Glass Installers and Repairers	284	301	17	6.0%	2	9	21	32	\$22.45
49-3023	Automotive Service Technicians and Mechanics	10,756	10,668	-88	-0.8%	-9	318	727	1,036	\$19.89
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	3,463	3,621	158	4.6%	16	100	221	337	\$23.03
49-3041	Farm Equipment Mechanics and Service Technicians	449	479	30	6.7%	3	14	31	48	\$22.32
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	1,594	1,688	94	5.9%	9	49	111	169	\$27.39
49-3043	Rail Car Repairers	171	174	3	1.8%	0	5	12	17	\$18.55
49-3052	Motorcycle Mechanics	287	311	24	8.4%	2	13	20	35	\$18.05
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	577	581	4	0.7%	0	25	38	63	\$17.46
49-3092	Recreational Vehicle Service Technicians	208	249	41	19.7%	4	7	19	30	\$17.81
49-3093	Tire Repairers and Changers	864	900	36	4.2%	4	27	73	104	\$14.63
49-9011	Mechanical Door Repairers	526	584	58	11.0%	6	13	32	51	\$19.26
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	315	314	-1	-0.3%	0	7	18	25	\$35.76
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	4,936	5,079	143	2.9%	14	128	342	484	\$23.51
49-9031	Home Appliance Repairers	519	475	-44	-8.5%	-4	19	29	44	\$22.36
49-9041	Industrial Machinery Mechanics	7,061	8,454	1,393	19.7%	139	238	419	796	\$28.40
49-9043	Maintenance Workers, Machinery	1,031	1,110	79	7.7%	8	36	58	102	\$24.40
49-9044	Millwrights	497	544	47	9.5%	5	15	30	50	\$29.07
49-9051	Electrical Power-Line Installers and Repairers	915	937	22	2.4%	2	17	62	81	\$38.58
49-9052	Telecommunications Line Installers and Repairers	1,921	1,678	-243	-12.7%	-24	40	152	168	\$22.77
49-9062	Medical Equipment Repairers	993	1,033	40	4.0%	4	44	61	109	\$25.03
49-9071	Maintenance and Repair Workers, General	22,476	23,226	750	3.3%	75	805	1,333	2,213	\$22.28
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	484	497	13	2.7%	1	22	36	59	\$16.24
49-9094	Locksmiths and Safe Repairers	145	114	-31	-21.4%	-3	5	8	10	\$22.02
49-9098	Helpers--Installation, Maintenance, and Repair Workers	757	789	32	4.2%	3	33	65	101	\$17.48
49-9099	Installation, Maintenance, and Repair Workers, All Other	2,810	2,916	106	3.8%	11	101	191	303	\$18.91
51-0000	Production Occupations	181,320	174,479	-6,841	-3.8%	-684	6,541	12,602	18,459	\$18.13
51-1011	First-Line Supervisors of Production and Operating Workers	12,151	12,315	164	1.4%	16	368	823	1,207	\$29.40
51-2021	Coil Winders, Tapers, and Finishers	329	273	-56	-17.0%	-6	12	19	25	\$18.35
51-2028	Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	2,899	2,946	47	1.6%	5	118	187	310	\$16.54
51-2041	Structural Metal Fabricators and Fitters	1,408	1,223	-185	-13.1%	-18	30	105	117	\$19.55
51-2090	Miscellaneous Assemblers and Fabricators	29,221	26,381	-2,840	-9.7%	-284	1,061	1,984	2,761	\$16.33
51-3011	Bakers	3,795	3,959	164	4.3%	16	216	290	522	\$13.73
51-3021	Butchers and Meat Cutters	1,193	1,081	-112	-9.4%	-11	46	84	119	\$14.30
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	1,412	1,434	22	1.6%	2	58	106	166	\$14.21
51-3023	Slaughterers and Meat Packers	1,723	1,841	118	6.9%	12	72	132	216	\$14.08
51-3092	Food Batchmakers	2,425	2,462	37	1.5%	4	114	182	300	\$14.50

JobsOhio Regional Network - Northeast Region
Occupational* Employment Projections Report, 2020-2030

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51-3093	Food Cooking Machine Operators and Tenders	492	509	17	3.5%	2	35	50	87	\$18.35
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	2,422	2,199	-223	-9.2%	-22	80	143	201	\$18.09
51-4022	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	730	613	-117	-16.0%	-12	23	41	52	\$21.24
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	2,124	1,866	-258	-12.2%	-26	70	123	167	\$23.00
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	6,512	6,086	-426	-6.5%	-43	200	433	590	\$18.11
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	2,998	2,795	-203	-6.8%	-20	130	199	309	\$17.47
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	1,082	981	-101	-9.3%	-10	34	70	94	\$21.74
51-4041	Machinists	10,120	10,585	465	4.6%	46	346	704	1,096	\$19.00
51-4051	Metal-Refining Furnace Operators and Tenders	573	560	-13	-2.3%	-1	12	39	50	\$18.30
51-4052	Pourers and Casters, Metal	579	525	-54	-9.3%	-5	12	38	45	\$23.29
51-4062	Patternmakers, Metal and Plastic	111	103	-8	-7.2%	-1	4	7	10	\$23.75
51-4071	Foundry Mold and Coremakers	1,789	1,699	-90	-5.0%	-9	57	118	166	\$21.17
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	7,329	6,693	-636	-8.7%	-64	228	475	639	\$16.97
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	5,206	5,377	171	3.3%	17	172	358	547	\$18.14
51-4111	Tool and Die Makers	2,229	2,165	-64	-2.9%	-6	81	138	213	\$23.65
51-4121	Welders, Cutters, Solderers, and Brazers	6,245	6,682	437	7.0%	44	170	510	724	\$21.60
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	765	716	-49	-6.4%	-5	20	58	73	\$18.17
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	948	862	-86	-9.1%	-9	29	61	81	\$18.82
51-4193	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	1,290	1,220	-70	-5.4%	-7	41	85	119	\$17.48
51-4194	Tool Grinders, Filers, and Sharpeners	125	113	-12	-9.6%	-1	4	8	11	\$23.18
51-4199	Metal Workers and Plastic Workers, All Other	305	283	-22	-7.2%	-2	10	20	28	\$17.78
51-5111	Prepress Technicians and Workers	600	489	-111	-18.5%	-11	21	52	62	\$21.23
51-5112	Printing Press Operators	3,372	3,046	-326	-9.7%	-33	116	226	309	\$18.13
51-5113	Print Binding and Finishing Workers	984	749	-235	-23.9%	-24	43	54	73	\$16.73
51-6011	Laundry and Dry-Cleaning Workers	2,554	2,697	143	5.6%	14	170	176	360	\$11.46
51-6021	Pressers, Textile, Garment, and Related Materials	165	144	-21	-12.7%	-2	7	9	14	\$11.25
51-6031	Sewing Machine Operators	1,959	1,796	-163	-8.3%	-16	114	99	197	\$13.95
51-6052	Tailors, Dressmakers, and Custom Sewers	552	477	-75	-13.6%	-8	41	26	59	\$14.35
51-6091	Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and Glass Fibers	166	161	-5	-3.0%	0	9	11	20	\$14.43
51-7011	Cabinetmakers and Bench Carpenters	1,524	1,625	101	6.6%	10	59	87	156	\$18.17
51-7021	Furniture Finishers	602	640	38	6.3%	4	36	46	86	\$17.74
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood	311	326	15	4.8%	2	11	24	37	\$17.83
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	1,190	1,308	118	9.9%	12	37	90	139	\$17.48
51-8012	Power Distributors and Dispatchers	286	265	-21	-7.3%	-2	7	18	23	\$46.68

JobsOhio Regional Network - Northeast Region

Occupational* Employment Projections Report, 2020-2030

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51-8021	Stationary Engineers and Boiler Operators	375	385	10	2.7%	1	18	27	46	\$30.24
51-8031	Water and Wastewater Treatment Plant and System Operators	1,402	1,300	-102	-7.3%	-10	38	84	112	\$23.61
51-8091	Chemical Plant and System Operators	327	316	-11	-3.4%	-1	8	25	32	\$29.28
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers	188	195	7	3.7%	1	4	15	20	\$45.73
51-9011	Chemical Equipment Operators and Tenders	2,228	2,059	-169	-7.6%	-17	47	166	196	\$22.78
51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	482	484	2	0.4%	0	11	38	49	\$18.06
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	777	756	-21	-2.7%	-2	26	57	81	\$18.39
51-9022	Grinding and Polishing Workers, Hand	505	419	-86	-17.0%	-9	16	34	41	\$17.59
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	3,088	3,131	43	1.4%	4	105	232	341	\$18.13
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	981	936	-45	-4.6%	-4	43	73	112	\$18.13
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	2,184	2,123	-61	-2.8%	-6	59	159	212	\$16.96
51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	390	403	13	3.3%	1	14	24	39	\$18.20
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	11,059	9,349	-1,710	-15.5%	-171	392	810	1,031	\$18.25
51-9071	Jewelers and Precious Stone and Metal Workers	228	203	-25	-11.0%	-2	12	14	24	\$21.55
51-9081	Dental Laboratory Technicians	631	644	13	2.1%	1	29	52	82	\$22.53
51-9082	Medical Appliance Technicians	224	242	18	8.0%	2	10	19	31	\$17.92
51-9111	Packaging and Filling Machine Operators and Tenders	6,495	6,714	219	3.4%	22	272	438	732	\$16.74
51-9123	Painting, Coating, and Decorating Workers	184	186	2	1.1%	0	5	13	18	\$18.05
51-9124	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	3,216	3,323	107	3.3%	11	90	234	335	\$18.33
51-9151	Photographic Process Workers and Processing Machine Operators	203	187	-16	-7.9%	-2	9	20	27	\$17.91
51-9161	Computer Numerically Controlled Tool Operators	4,960	4,698	-262	-5.3%	-26	165	357	496	\$21.65
51-9162	Computer Numerically Controlled Tool Programmers	1,008	1,233	225	22.3%	22	38	83	143	\$27.89
51-9191	Adhesive Bonding Machine Operators and Tenders	270	271	1	0.4%	0	15	18	33	\$17.59
51-9193	Cooling and Freezing Equipment Operators and Tenders	348	367	19	5.5%	2	12	26	40	\$22.81
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	1,303	1,504	201	15.4%	20	50	92	162	\$18.02
51-9196	Paper Goods Machine Setters, Operators, and Tenders	1,768	1,656	-112	-6.3%	-11	77	114	180	\$18.40
51-9198	Helpers--Production Workers	2,755	2,508	-247	-9.0%	-25	124	248	347	\$16.86
51-9199	Production Workers, All Other	2,625	2,723	98	3.7%	10	92	198	300	\$17.74
53-0000	Transportation and Material Moving Occupations	163,391	174,827	11,436	7.0%	1,144	7,815	13,373	22,332	\$17.44
53-1047	FirstLine Supervisors of Transportation & Material Moving Workers, Exc Aircraft Cargo Handling Supervisor	7,259	7,404	145	2.0%	14	268	508	790	\$23.55
53-2011	Airline Pilots, Copilots, and Flight Engineers	347	352	5	1.4%	0	13	25	38	#
53-2012	Commercial Pilots	353	393	40	11.3%	4	14	26	44	\$97,474 **
53-2021	Air Traffic Controllers	626	671	45	7.2%	4	17	45	66	\$73.43
53-3031	Driver/Sales Workers	11,181	12,600	1,419	12.7%	142	487	806	1,435	\$11.42
53-3032	Heavy and Tractor-Trailer Truck Drivers	26,602	27,609	1,007	3.8%	101	1,110	1,838	3,049	\$22.95
53-3033	Light Truck or Delivery Services Drivers	12,293	13,426	1,133	9.2%	113	527	872	1,512	\$17.72
53-3052	Bus Drivers, Transit and Intercity	1,914	2,142	228	11.9%	23	134	101	258	\$26.63

JobsOhio Regional Network - Northeast Region

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	
53-3058	Passenger Vehicle Drivers, Except Bus Drivers, Transit and Intercity	6,435	8,395	1,960	30.5%	196	488	369	1,053	\$18.05 ^{^^^}
53-6021	Parking Lot Attendants	1,338	1,424	86	6.4%	9	67	143	219	\$11.39
53-6031	Automotive and Watercraft Service Attendants	976	1,023	47	4.8%	5	46	89	140	\$13.72
53-6051	Transportation Inspectors	315	321	6	1.9%	1	11	23	35	\$36.70
53-6098	Aircraft Service Attendants and Transportation Workers, All Other	311	337	26	8.4%	3	15	29	47	\$14.39 ^{^^^}
53-7011	Conveyor Operators and Tenders	170	175	5	2.9%	0	5	15	20	\$14.97
53-7021	Crane and Tower Operators	686	689	3	0.4%	0	19	52	71	\$22.71
53-7051	Industrial Truck and Tractor Operators	7,918	8,607	689	8.7%	69	249	634	952	\$18.45
53-7061	Cleaners of Vehicles and Equipment	4,508	4,737	229	5.1%	23	226	412	661	\$13.82
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	36,510	38,974	2,464	6.8%	246	1,652	3,284	5,182	\$15.21
53-7064	Packers and Packagers, Hand	7,337	7,425	88	1.2%	9	420	598	1,027	\$14.33
53-7065	Stockers and Order Fillers	30,553	32,028	1,475	4.8%	148	1,781	3,052	4,981	\$14.26
53-7081	Refuse and Recyclable Material Collectors	1,903	2,075	172	9.0%	17	84	179	280	\$18.41

* 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.

JobsOhio Regional Network - Northeast Region

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				\$18.76
11-0000	Management Occupations				\$47.31
11-1011	Chief Executives	Bachelor's degree	5 years or more	None	\$93.02
11-1021	General and Operations Managers	Bachelor's degree	5 years or more	None	\$45.59
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	\$61.39
11-2022	Sales Managers	Bachelor's degree	Less than 5 years	None	\$60.47
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	\$62.50
11-3031	Financial Managers	Bachelor's degree	5 years or more	None	\$60.69
11-3051	Industrial Production Managers	Bachelor's degree	5 years or more	None	\$48.38
11-3061	Purchasing Managers	Bachelor's degree	5 years or more	None	\$57.40
11-3071	Transportation, Storage, and Distribution Managers	High school diploma or equivalent	5 years or more	None	\$42.85
11-3111	Compensation and Benefits Managers	Bachelor's degree	5 years or more	None	\$61.83
11-3121	Human Resources Managers	Bachelor's degree	5 years or more	None	\$57.75
11-3131	Training and Development Managers	Bachelor's degree	5 years or more	None	\$57.19
11-9013	Farmers, Ranchers, and Other Agricultural Managers	High school diploma or equivalent	5 years or more	None	\$35.12 ^
11-9021	Construction Managers	Bachelor's degree	None	Moderate-term on-the-job training	\$45.36
11-9031	Education Administrators, Preschool and Childcare Center/Program	Bachelor's degree	Less than 5 years	None	\$22.50
11-9032	Education Administrators, Elementary and Secondary School	Master's degree	5 years or more	None	\$97,092 **
11-9033	Education Administrators, Postsecondary	Master's degree	Less than 5 years	None	\$45.51
11-9039	Education Administrators, All Other	Bachelor's degree	Less than 5 years	None	\$30.35
11-9041	Architectural and Engineering Managers	Bachelor's degree	5 years or more	None	\$63.35
11-9051	Food Service Managers	High school diploma or equivalent	Less than 5 years	None	\$23.97
11-9081	Lodging Managers	High school diploma or equivalent	Less than 5 years	None	\$28.53
11-9111	Medical and Health Services Managers	Bachelor's degree	Less than 5 years	None	\$47.76
11-9121	Natural Sciences Managers	Bachelor's degree	5 years or more	None	\$49.17
11-9131	Postmasters and Mail Superintendents	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training	\$39.62
11-9141	Property, Real Estate, and Community Association Managers	High school diploma or equivalent	Less than 5 years	None	\$23.91
11-9151	Social and Community Service Managers	Bachelor's degree	Less than 5 years	None	\$30.55
11-9171	Funeral Home Managers	Associate's degree	Less than 5 years	None	\$36.83
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				\$30.63
13-1020	Buyers and Purchasing Agents	Bachelor's degree	None	Moderate-term on-the-job training	\$29.85
13-1031	Claims Adjusters, Examiners, and Investigators	High school diploma or equivalent	None	Long-term on-the-job training	\$31.08
13-1041	Compliance Officers	Bachelor's degree	None	Moderate-term on-the-job training	\$30.51
13-1051	Cost Estimators	Bachelor's degree	None	Moderate-term on-the-job training	\$30.37
13-1071	Human Resources Specialists	Bachelor's degree	None	None	\$29.02
13-1075	Labor Relations Specialists	Bachelor's degree	Less than 5 years	None	\$36.94
13-1081	Logisticians	Bachelor's degree	None	None	\$30.99
13-1111	Management Analysts	Bachelor's degree	Less than 5 years	None	\$38.25

JobsOhio Regional Network - Northeast Region
Occupational* Education and Training Classifications, Projections Report, 2020-2030

SOC Code	Occupational Title	Typical Education Needed for Entry	Work Experience in a Related Occupation	Typical On-The-Job Training Needed to Attain Competency in the Occupation	Median Wage May 2021
13-1121	Meeting, Convention, and Event Planners	Bachelor's degree	None	None	\$23.24
13-1131	Fundraisers	Bachelor's degree	None	None	\$29.07
13-1141	Compensation, Benefits, and Job Analysis Specialists	Bachelor's degree	Less than 5 years	None	\$29.82
13-1151	Training and Development Specialists	Bachelor's degree	Less than 5 years	None	\$24.37
13-1161	Market Research Analysts and Marketing Specialists	Bachelor's degree	None	None	\$29.33
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	\$35.45
13-2020	Property Appraisers and Assessors	Bachelor's degree	None	Long-term on-the-job training	\$30.46
13-2031	Budget Analysts	Bachelor's degree	None	None	\$37.03
13-2041	Credit Analysts	Bachelor's degree	None	None	\$37.14
13-2052	Personal Financial Advisors	Bachelor's degree	None	Long-term on-the-job training	\$39.44
13-2061	Financial Examiners	Bachelor's degree	None	Long-term on-the-job training	\$35.00
13-2071	Credit Counselors	Bachelor's degree	None	Moderate-term on-the-job training	\$23.45
13-2072	Loan Officers	Bachelor's degree	Less than 5 years	Moderate-term on-the-job training	\$29.96
13-2081	Tax Examiners and Collectors, and Revenue Agents	Bachelor's degree	None	Moderate-term on-the-job training	\$27.66
13-2082	Tax Preparers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$15.53
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				\$38.20
15-1211	Computer Systems Analysts	Bachelor's degree	None	None	\$45.66
15-1212	Information Security Analysts	Bachelor's degree	Less than 5 years	None	\$47.62
15-1231	Computer Network Support Specialists	Associate's degree	None	None	\$29.02
15-1232	Computer User Support Specialists	Some college, no degree	None	None	\$23.10
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	\$38.27
15-1245	Database Administrators and Architects	Bachelor's degree	None	None	\$47.44 ^^^
15-1251	Computer Programmers	Bachelor's degree	None	None	\$30.22
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
15-2031	Operations Research Analysts	Bachelor's degree	None	None	\$38.25
15-2098	Data Scientists and Mathematical Science Occupations, All Other	Bachelor's degree	None	None	\$30.03 ^^^
17-0000	Architecture and Engineering Occupations				\$37.38
17-1011	Architects, Except Landscape and Naval	Bachelor's degree	None	Internship/residency	\$37.61
17-1022	Surveyors	Bachelor's degree	None	Internship/residency	\$29.62
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	\$38.52
17-2061	Computer Hardware Engineers	Bachelor's degree	None	None	\$47.60
17-2071	Electrical Engineers	Bachelor's degree	None	None	\$45.82
17-2072	Electronics Engineers, Except Computer	Bachelor's degree	None	None	\$45.84
17-2081	Environmental Engineers	Bachelor's degree	None	None	\$58.66
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	Bachelor's degree	None	None	\$46.68

JobsOhio Regional Network - Northeast Region

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
17-2112	Industrial Engineers	Bachelor's degree	None	None	\$38.43
17-2131	Materials Engineers	Bachelor's degree	None	None	\$38.38
17-2141	Mechanical Engineers	Bachelor's degree	None	None	\$37.65
17-2199	Engineers, All Other	Bachelor's degree	None	None	\$45.82
17-3011	Architectural and Civil Drafters	Associate's degree	None	None	\$24.28
17-3013	Mechanical Drafters	Associate's degree	None	None	\$28.69
17-3022	Civil Engineering Technicians	Associate's degree	None	None	\$29.19
17-3023	Electrical and Electronics Engineering Technicians	Associate's degree	None	None	\$30.94
17-3025	Environmental Engineering Technicians	Associate's degree	None	None	\$23.49
17-3026	Industrial Engineering Technicians	Associate's degree	None	None	\$23.45
17-3027	Mechanical Engineering Technicians	Associate's degree	None	None	\$28.42
17-3031	Surveying and Mapping Technicians	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.78
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				\$30.90
19-1012	Food Scientists and Technologists	Bachelor's degree	None	None	\$45.22
19-1023	Zoologists and Wildlife Biologists	Bachelor's degree	None	None	\$30.65
19-1031	Conservation Scientists	Bachelor's degree	None	None	\$22.87
19-1042	Medical Scientists, Except Epidemiologists	Doctoral or professional degree	None	None	\$38.23
19-2031	Chemists	Bachelor's degree	None	None	\$37.24
19-2032	Materials Scientists	Bachelor's degree	None	None	\$45.57
19-2041	Environmental Scientists and Specialists, Including Health	Bachelor's degree	None	None	\$30.89
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	\$23.54
19-4042	Environmental Science and Protection Technicians, Including Health	Associate's degree	None	None	\$22.91
19-4061	Social Science Research Assistants	Bachelor's degree	None	None	\$27.82
19-4092	Forensic Science Technicians	Bachelor's degree	None	Moderate-term on-the-job training	\$29.89
19-4099	Life, Physical, and Social Science Technicians, All Other	Associate's degree	None	None	\$23.46
19-5011	Occupational Health and Safety Specialists	Bachelor's degree	None	None	\$37.39
19-5012	Occupational Health and Safety Technicians	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.39
21-0000	Community and Social Service Occupations				\$22.90
21-1012	Educational, Guidance, School, and Vocational Counselors	Master's degree	None	None	\$29.24
21-1013	Marriage and Family Therapists	Master's degree	None	Internship/residency	\$24.93
21-1015	Rehabilitation Counselors	Master's degree	None	None	\$18.51
21-1018	Substance Abuse, Behavioral Disorder, and Mental Health Counselors	Bachelor's degree	None	None	\$22.62
21-1021	Child, Family, and School Social Workers	Bachelor's degree	None	None	\$22.95
21-1022	Healthcare Social Workers	Master's degree	None	Internship/residency	\$29.03
21-1023	Mental Health and Substance Abuse Social Workers	Master's degree	None	Internship/residency	\$22.18
21-1029	Social Workers, All Other	Bachelor's degree	None	None	\$26.76

JobsOhio Regional Network - Northeast Region
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
21-1091	Health Educators	Bachelor's degree	None	None	\$29.19
21-1092	Probation Officers and Correctional Treatment Specialists	Bachelor's degree	None	Short-term on-the-job training	\$24.03
21-1093	Social and Human Service Assistants	High school diploma or equivalent	None	Short-term on-the-job training	\$17.69
21-1094	Community Health Workers	High school diploma or equivalent	None	Short-term on-the-job training	\$18.44
21-1099	Community and Social Service Specialists, All Other	Bachelor's degree	None	None	\$22.97
21-2011	Clergy	Bachelor's degree	None	Moderate-term on-the-job training	\$23.73
23-0000	Legal Occupations				\$36.21
23-1011	Lawyers	Doctoral or professional degree	None	None	\$49.30
23-1012	Judicial Law Clerks	Doctoral or professional degree	None	None	\$23.50
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	Doctoral or professional degree	5 years or more	Short-term on-the-job training	\$55.39
23-1022	Arbitrators, Mediators, and Conciliators	Bachelor's degree	Less than 5 years	Moderate-term on-the-job training	\$31.43
23-1023	Judges, Magistrate Judges, and Magistrates	Doctoral or professional degree	5 years or more	Short-term on-the-job training	\$47.93
23-2011	Paralegals and Legal Assistants	Associate's degree	None	None	\$22.65
23-2093	Title Examiners, Abstractors, and Searchers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.52
25-0000	Education, Training, and Library Occupations				\$29.24
25-1011	Business Teachers, Postsecondary	Doctoral or professional degree	None	None	\$72,829 **
25-1021	Computer Science Teachers, Postsecondary	Doctoral or professional degree	None	None	\$79,927 **
25-1022	Mathematical Science Teachers, Postsecondary	Doctoral or professional degree	None	None	\$76,191 **
25-1042	Biological Science Teachers, Postsecondary	Doctoral or professional degree	None	None	\$64,388 **
25-1052	Chemistry Teachers, Postsecondary	Doctoral or professional degree	None	None	\$77,449 **
25-1054	Physics Teachers, Postsecondary	Doctoral or professional degree	None	None	\$76,584 **
25-1063	Economics Teachers, Postsecondary	Doctoral or professional degree	None	None	\$76,751 **
25-1065	Political Science Teachers, Postsecondary	Doctoral or professional degree	None	None	\$77,629 **
25-1066	Psychology Teachers, Postsecondary	Doctoral or professional degree	None	None	\$77,629 **
25-1067	Sociology Teachers, Postsecondary	Doctoral or professional degree	None	None	\$77,629 **
25-1071	Health Specialties Teachers, Postsecondary	Doctoral or professional degree	Less than 5 years	None	\$158,455 **
25-1072	Nursing Instructors and Teachers, Postsecondary	Doctoral or professional degree	Less than 5 years	None	\$74,354 **
25-1081	Education Teachers, Postsecondary	Doctoral or professional degree	Less than 5 years	None	\$61,380 **
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	Doctoral or professional degree	None	None	\$61,221 **
25-1113	Social Work Teachers, Postsecondary	Doctoral or professional degree	None	None	\$77,629 **
25-1121	Art, Drama, and Music Teachers, Postsecondary	Master's degree	None	None	\$63,200 **
25-1122	Communications Teachers, Postsecondary	Doctoral or professional degree	None	None	\$64,266 **
25-1123	English Language and Literature Teachers, Postsecondary	Doctoral or professional degree	None	None	\$62,072 **
25-1124	Foreign Language and Literature Teachers, Postsecondary	Doctoral or professional degree	None	None	\$63,742 **
25-1125	History Teachers, Postsecondary	Doctoral or professional degree	None	None	\$77,629 **
25-1193	Recreation and Fitness Studies Teachers, Postsecondary	Doctoral or professional degree	None	None	\$61,380 **
25-1194	Vocational Education Teachers, Postsecondary	Bachelor's degree	Less than 5 years	None	\$23.97
25-1199	Postsecondary Teachers, All Other	Doctoral or professional degree	None	None	\$64,645 **
25-2011	Preschool Teachers, Except Special Education	Associate's degree	None	None	\$13.86
25-2012	Kindergarten Teachers, Except Special Education	Bachelor's degree	None	None	\$60,747 **
25-2021	Elementary School Teachers, Except Special Education	Bachelor's degree	None	None	\$72,279 **
25-2022	Middle School Teachers, Except Special and Career/Technical Education	Bachelor's degree	None	None	\$75,328 **
25-2031	Secondary School Teachers, Except Special and Career/Technical Education	Bachelor's degree	None	None	\$76,047 **

JobsOhio Regional Network - Northeast Region
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
25-2052	Special Education Teachers, Kindergarten and Elementary School	Bachelor's degree	None	None	\$71,956 **
25-2057	Special Education Teachers, Middle School	Bachelor's degree	None	None	\$62,423 **
25-2058	Special Education Teachers, Secondary School	Bachelor's degree	None	None	\$62,073 **
25-2059	Special Education Teachers, All Other	Bachelor's degree	None	None	\$48,718 **
25-3011	Adult Basic and Secondary Education and Literacy Teachers and Instructors	Bachelor's degree	None	None	\$24.10
25-3021	Self-Enrichment Education Teachers	High school diploma or equivalent	Less than 5 years	None	\$14.95
25-3031	Substitute Teachers, Short-Term	Bachelor's degree	None	None	\$14.01
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	\$23.98
25-4031	Library Technicians	Postsecondary non-degree award	None	None	\$17.47
25-9031	Instructional Coordinators	Master's degree	5 years or more	None	\$30.61
25-9045	Teaching Assistants, Except Postsecondary	Some college, no degree	None	None	\$28,929 **
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations				\$22.75
27-1011	Art Directors	Bachelor's degree	5 years or more	None	\$37.91
27-1012	Craft Artists	No formal educational credential	None	Long-term on-the-job training	\$18.33
27-1013	Fine Artists, Including Painters, Sculptors, and Illustrators	Bachelor's degree	None	Long-term on-the-job training	\$19.19
27-1014	Multimedia Artists and Animators	Bachelor's degree	None	None	\$28.70
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	\$13.63
27-1024	Graphic Designers	Bachelor's degree	None	None	\$23.51
27-1025	Interior Designers	Bachelor's degree	None	None	\$23.64
27-1026	Merchandise Displayers and Window Trimmers	High school diploma or equivalent	None	Short-term on-the-job training	\$14.52
27-1027	Set and Exhibit Designers	Bachelor's degree	None	None	\$25.20
27-1029	Designers, All Other	Bachelor's degree	None	None	\$18.86
27-2012	Producers and Directors	Bachelor's degree	Less than 5 years	None	\$29.46
27-2022	Coaches and Scouts	Bachelor's degree	None	None	\$36,962 **
27-2041	Music Directors and Composers	Bachelor's degree	Less than 5 years	None	\$24.06
27-2042	Musicians and Singers	No formal educational credential	None	Long-term on-the-job training	\$39.14
27-2090	Miscellaneous Entertainers and Performers, Sports and Related Workers	No formal educational credential	None	Short-term on-the-job training	\$17.59 ^
27-3011	Radio and Television Announcers	Bachelor's degree	None	None	\$14.40
27-3023	News Analysts, Reporters, and Journalists	Bachelor's degree	None	None	\$18.56
27-3031	Public Relations Specialists	Bachelor's degree	None	None	\$29.79
27-3041	Editors	Bachelor's degree	Less than 5 years	None	\$29.24
27-3042	Technical Writers	Bachelor's degree	Less than 5 years	Short-term on-the-job training	\$30.30
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	\$23.35
27-4011	Audio and Video Equipment Technicians	Postsecondary non-degree award	None	Short-term on-the-job training	\$21.68
27-4012	Broadcast Technicians	Associate's degree	None	Short-term on-the-job training	\$23.36
27-4014	Sound Engineering Technicians	Postsecondary non-degree award	None	Short-term on-the-job training	\$22.70
27-4021	Photographers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.21
27-4098	Lighting Technicians and Media and Communication Equipment Workers, All Other	High school diploma or equivalent	None	Short-term on-the-job training	\$23.52 ^^^
29-0000	Healthcare Practitioners and Technical Occupations				\$30.43
29-1011	Chiropractors	Doctoral or professional degree	None	None	\$29.11

JobsOhio Regional Network - Northeast Region

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
29-1021	Dentists, General	Doctoral or professional degree	None	None	\$78.92
29-1031	Dietitians and Nutritionists	Bachelor's degree	None	Internship/residency	\$29.40
29-1041	Optometrists	Doctoral or professional degree	None	None	\$48.70
29-1051	Pharmacists	Doctoral or professional degree	None	None	\$61.72
29-1071	Physician Assistants	Master's degree	None	None	\$49.67
29-1081	Podiatrists	Doctoral or professional degree	None	Internship/residency	\$62.09
29-1122	Occupational Therapists	Master's degree	None	None	\$38.99
29-1123	Physical Therapists	Doctoral or professional degree	None	None	\$45.93
29-1124	Radiation Therapists	Associate's degree	None	None	\$38.40
29-1125	Recreational Therapists	Bachelor's degree	None	None	\$22.81
29-1126	Respiratory Therapists	Associate's degree	None	None	\$29.78
29-1127	Speech-Language Pathologists	Master's degree	None	Internship/residency	\$38.34
29-1128	Exercise Physiologists	Bachelor's degree	None	None	\$28.55
29-1129	Therapists, All Other	Bachelor's degree	None	None	\$28.42
29-1131	Veterinarians	Doctoral or professional degree	None	None	\$47.52
29-1141	Registered Nurses	Bachelor's degree	None	None	\$35.75
29-1151	Nurse Anesthetists	Master's degree	None	None	\$81.26
29-1171	Nurse Practitioners	Master's degree	None	None	\$50.68
29-1181	Audiologists	Doctoral or professional degree	None	None	\$29.24
29-1211	Anesthesiologists	Doctoral or professional degree	None	Internship/residency	#
29-1215	Family Medicine Physicians	Doctoral or professional degree	None	Internship/residency	\$67.70
29-1216	General Internal Medicine Physicians	Doctoral or professional degree	None	Internship/residency	#
29-1218	Obstetricians and Gynecologists	Doctoral or professional degree	None	Internship/residency	#
29-1292	Dental Hygienists	Associate's degree	None	None	\$36.84
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	\$28.20
29-2031	Cardiovascular Technologists and Technicians	Associate's degree	None	None	\$29.50
29-2032	Diagnostic Medical Sonographers	Associate's degree	None	None	\$36.06
29-2033	Nuclear Medicine Technologists	Associate's degree	None	None	\$37.48
29-2034	Radiologic Technologists	Associate's degree	None	None	\$29.12
29-2035	Magnetic Resonance Imaging Technologists	Associate's degree	Less than 5 years	None	\$36.06
29-2040	Emergency Medical Technicians and Paramedics	Postsecondary non-degree award	None	None	\$17.76 ^
29-2051	Dietetic Technicians	Associate's degree	None	None	\$14.54
29-2052	Pharmacy Technicians	High school diploma or equivalent	None	Moderate-term on-the-job training	\$16.54
29-2053	Psychiatric Technicians	Postsecondary non-degree award	Less than 5 years	Short-term on-the-job training	\$17.22
29-2055	Surgical Technologists	Postsecondary non-degree award	None	None	\$23.21
29-2056	Veterinary Technologists and Technicians	Associate's degree	None	None	\$17.57
29-2057	Ophthalmic Medical Technicians	Postsecondary non-degree award	None	None	\$17.85
29-2061	Licensed Practical and Licensed Vocational Nurses	Postsecondary non-degree award	None	None	\$22.81
29-2081	Opticians, Dispensing	High school diploma or equivalent	None	Long-term on-the-job training	\$21.96
29-2091	Orthotists and Prosthetists	Master's degree	None	Internship/residency	\$28.26
29-2098	Medical Dosimetrists, Medical Records Specialists, and Health Technologists and Technicians, All Other	Postsecondary non-degree award	None	None	\$22.55 ^^^

JobsOhio Regional Network - Northeast Region
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
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				\$14.12
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	\$14.38
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	\$29.51
31-2021	Physical Therapist Assistants	Associate's degree	None	None	\$29.60
31-2022	Physical Therapist Aides	High school diploma or equivalent	None	Short-term on-the-job training	\$14.31
31-9011	Massage Therapists	Postsecondary non-degree award	None	None	\$22.55
31-9091	Dental Assistants	Postsecondary non-degree award	None	None	\$18.17
31-9092	Medical Assistants	Postsecondary non-degree award	None	None	\$17.58
31-9093	Medical Equipment Preparers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.07
31-9094	Medical Transcriptionists	Postsecondary non-degree award	None	None	\$11.21
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	\$14.24
31-9097	Phlebotomists	Postsecondary non-degree award	None	None	\$17.65
31-9099	Healthcare Support Workers, All Other	High school diploma or equivalent	None	None	\$17.80
33-0000	Protective Service Occupations				\$22.81
33-1011	First-Line Supervisors of Correctional Officers	High school diploma or equivalent	Less than 5 years	None	\$31.74
33-1012	First-Line Supervisors of Police and Detectives	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training	\$40.61
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	\$37.43
33-1090	Miscellaneous First-Line Supervisors, Protective Service Workers	High school diploma or equivalent	Less than 5 years	None	\$25.23 [^]
33-2011	Firefighters	Postsecondary non-degree award	None	Long-term on-the-job training	\$24.13
33-3011	Bailiffs	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.43
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	\$37.30
33-3051	Police and Sheriff's Patrol Officers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$30.75
33-9011	Animal Control Workers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.83
33-9032	Security Guards	High school diploma or equivalent	None	Short-term on-the-job training	\$14.02
33-9091	Crossing Guards	No formal educational credential	None	Short-term on-the-job training	\$14.20
33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	No formal educational credential	None	Short-term on-the-job training	\$10.82
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				\$10.96
35-1011	Chefs and Head Cooks	High school diploma or equivalent	5 years or more	None	\$24.91
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	High school diploma or equivalent	Less than 5 years	None	\$15.94
35-2011	Cooks, Fast Food	No formal educational credential	None	Short-term on-the-job training	\$10.64
35-2012	Cooks, Institution and Cafeteria	No formal educational credential	None	Short-term on-the-job training	\$14.38
35-2014	Cooks, Restaurant	No formal educational credential	Less than 5 years	Moderate-term on-the-job training	\$13.85
35-2015	Cooks, Short Order	No formal educational credential	None	Short-term on-the-job training	\$12.33
35-2021	Food Preparation Workers	No formal educational credential	None	Short-term on-the-job training	\$11.64
35-3011	Bartenders	No formal educational credential	None	Short-term on-the-job training	\$10.22
35-3023	Fast Food and Counter Workers	No formal educational credential	None	Short-term on-the-job training	\$10.71

JobsOhio Regional Network - Northeast Region
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
35-3031	Waiters and Waitresses	No formal educational credential	None	Short-term on-the-job training	\$9.86
35-3041	Food Servers, Nonrestaurant	No formal educational credential	None	Short-term on-the-job training	\$12.12
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	No formal educational credential	None	Short-term on-the-job training	\$11.52
35-9021	Dishwashers	No formal educational credential	None	Short-term on-the-job training	\$10.86
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	No formal educational credential	None	Short-term on-the-job training	\$10.60
35-9099	Food Preparation and Serving Related Workers, All Other	No formal educational credential	None	Short-term on-the-job training	\$10.98
37-0000	Building and Grounds Cleaning and Maintenance Occupations				\$14.29
37-1011	First-Line Supervisors of Housekeeping and Janitorial Workers	High school diploma or equivalent	Less than 5 years	None	\$21.82
37-1012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	High school diploma or equivalent	Less than 5 years	None	\$23.00
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	No formal educational credential	None	Short-term on-the-job training	\$14.05
37-2012	Maids and Housekeeping Cleaners	No formal educational credential	None	Short-term on-the-job training	\$11.86
37-3011	Landscaping and Groundskeeping Workers	No formal educational credential	None	Short-term on-the-job training	\$14.55
39-0000	Personal Care and Service Occupations				\$12.01
39-2021	Nonfarm Animal Caretakers	High school diploma or equivalent	None	Short-term on-the-job training	\$11.14
39-3031	Ushers, Lobby Attendants, and Ticket Takers	No formal educational credential	None	Short-term on-the-job training	\$10.80
39-3091	Amusement and Recreation Attendants	No formal educational credential	None	Short-term on-the-job training	\$10.29
39-3093	Locker Room, Coatroom, and Dressing Room Attendants	High school diploma or equivalent	None	Short-term on-the-job training	\$11.49
39-4021	Funeral Attendants	High school diploma or equivalent	None	Short-term on-the-job training	\$14.00
39-5012	Hairdressers, Hairstylists, and Cosmetologists	Postsecondary non-degree award	None	None	\$13.67
39-5092	Manicurists and Pedicurists	Postsecondary non-degree award	None	None	\$10.98
39-6012	Concierges	High school diploma or equivalent	None	Moderate-term on-the-job training	\$14.55
39-7010	Tour and Travel Guides	High school diploma or equivalent	None	Moderate-term on-the-job training	\$13.70
39-9011	Childcare Workers	High school diploma or equivalent	None	Short-term on-the-job training	\$11.09
39-9031	Fitness Trainers and Aerobics Instructors	High school diploma or equivalent	None	Short-term on-the-job training	\$14.23
39-9032	Recreation Workers	High school diploma or equivalent	None	Short-term on-the-job training	\$12.89
39-9041	Residential Advisors	High school diploma or equivalent	None	Short-term on-the-job training	\$14.73
41-0000	Sales and Related Occupations				\$14.15
41-1011	First-Line Supervisors of Retail Sales Workers	High school diploma or equivalent	Less than 5 years	None	\$18.20
41-1012	First-Line Supervisors of Non-Retail Sales Workers	High school diploma or equivalent	Less than 5 years	None	\$37.56
41-2011	Cashiers	No formal educational credential	None	Short-term on-the-job training	\$10.96
41-2022	Parts Salespersons	No formal educational credential	None	Moderate-term on-the-job training	\$14.41
41-2031	Retail Salespersons	No formal educational credential	None	Short-term on-the-job training	\$12.81
41-3011	Advertising Sales Agents	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.26
41-3021	Insurance Sales Agents	High school diploma or equivalent	None	Moderate-term on-the-job training	\$29.35
41-3031	Securities, Commodities, and Financial Services Sales Agents	Bachelor's degree	None	Moderate-term on-the-job training	\$24.47
41-3041	Travel Agents	High school diploma or equivalent	None	Moderate-term on-the-job training	\$17.80
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	\$23.75
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	Bachelor's degree	None	Moderate-term on-the-job training	\$47.40
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	High school diploma or equivalent	None	Moderate-term on-the-job training	\$29.73
41-9022	Real Estate Sales Agents	High school diploma or equivalent	None	Moderate-term on-the-job training	\$17.65

JobsOhio Regional Network - Northeast Region

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
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
43-0000	Office and Administrative Support Occupations				\$18.13
43-1011	First-Line Supervisors of Office and Administrative Support Workers	High school diploma or equivalent	Less than 5 years	None	\$28.99
43-2011	Switchboard Operators, Including Answering Service	High school diploma or equivalent	None	Short-term on-the-job training	\$17.57
43-3011	Bill and Account Collectors	High school diploma or equivalent	None	Moderate-term on-the-job training	\$17.74
43-3021	Billing and Posting Clerks	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.12
43-3031	Bookkeeping, Accounting, and Auditing Clerks	Some college, no degree	None	Moderate-term on-the-job training	\$18.90
43-3051	Payroll and Timekeeping Clerks	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.13
43-3061	Procurement Clerks	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.45
43-3071	Tellers	High school diploma or equivalent	None	Short-term on-the-job training	\$16.85
43-3099	Financial Clerks, All Other	High school diploma or equivalent	None	Short-term on-the-job training	\$22.73
43-4011	Brokerage Clerks	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.97
43-4031	Court, Municipal, and License Clerks	High school diploma or equivalent	None	Long-term on-the-job training	\$18.23
43-4051	Customer Service Representatives	High school diploma or equivalent	None	Short-term on-the-job training	\$17.87
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	\$17.59
43-4081	Hotel, Motel, and Resort Desk Clerks	High school diploma or equivalent	None	Short-term on-the-job training	\$11.29
43-4111	Interviewers, Except Eligibility and Loan	High school diploma or equivalent	None	Short-term on-the-job training	\$17.83
43-4121	Library Assistants, Clerical	High school diploma or equivalent	None	Short-term on-the-job training	\$11.20
43-4131	Loan Interviewers and Clerks	High school diploma or equivalent	None	Short-term on-the-job training	\$19.21
43-4141	New Accounts Clerks	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.58
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	\$19.69
43-4171	Receptionists and Information Clerks	High school diploma or equivalent	None	Short-term on-the-job training	\$14.09
43-4181	Reservation and Transportation Ticket Agents and Travel Clerks	High school diploma or equivalent	None	Short-term on-the-job training	\$17.07
43-4199	Information and Record Clerks, All Other	High school diploma or equivalent	None	Short-term on-the-job training	\$21.00
43-5011	Cargo and Freight Agents	High school diploma or equivalent	None	Short-term on-the-job training	\$18.30
43-5021	Couriers and Messengers	High school diploma or equivalent	None	Short-term on-the-job training	\$14.44
43-5031	Police, Fire, and Ambulance Dispatchers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.89
43-5032	Dispatchers, Except Police, Fire, and Ambulance	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.49
43-5041	Meter Readers, Utilities	High school diploma or equivalent	None	Short-term on-the-job training	\$28.54
43-5051	Postal Service Clerks	High school diploma or equivalent	None	Short-term on-the-job training	\$25.60
43-5052	Postal Service Mail Carriers	High school diploma or equivalent	None	Short-term on-the-job training	\$25.21
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	High school diploma or equivalent	None	Short-term on-the-job training	\$21.77
43-5061	Production, Planning, and Expediting Clerks	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.10
43-5071	Shipping, Receiving, and Traffic Clerks	High school diploma or equivalent	None	Short-term on-the-job training	\$17.74
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	High school diploma or equivalent	None	Short-term on-the-job training	\$18.13
43-6011	Executive Secretaries and Executive Administrative Assistants	High school diploma or equivalent	Less than 5 years	None	\$29.13
43-6012	Legal Secretaries	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.46
43-6013	Medical Secretaries	High school diploma or equivalent	None	Moderate-term on-the-job training	\$17.74
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	High school diploma or equivalent	None	Short-term on-the-job training	\$17.84
43-9021	Data Entry Keyers	High school diploma or equivalent	None	Short-term on-the-job training	\$17.13

JobsOhio Regional Network - Northeast Region

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
43-9022	Word Processors and Typists	High school diploma or equivalent	None	Short-term on-the-job training	\$18.19
43-9041	Insurance Claims and Policy Processing Clerks	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.73
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	High school diploma or equivalent	None	Short-term on-the-job training	\$14.13
43-9061	Office Clerks, General	High school diploma or equivalent	None	Short-term on-the-job training	\$17.79
45-0000	Farming, Fishing, and Forestry Occupations				\$15.14
45-1011	First-Line Supervisors of Farming, Fishing, and Forestry Workers	High school diploma or equivalent	Less than 5 years	None	\$26.97
45-2091	Agricultural Equipment Operators	No formal educational credential	None	Moderate-term on-the-job training	\$21.91
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	No formal educational credential	None	Short-term on-the-job training	\$14.33
45-2093	Farmworkers, Farm, Ranch, and Aquacultural Animals	No formal educational credential	None	Short-term on-the-job training	\$13.73
47-0000	Construction and Extraction Occupations				\$23.64
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	High school diploma or equivalent	5 years or more	None	\$30.12
47-2011	Boilermakers	High school diploma or equivalent	None	Apprenticeship	\$39.80
47-2021	Brickmasons and Blockmasons	High school diploma or equivalent	None	Apprenticeship	\$29.47
47-2031	Carpenters	High school diploma or equivalent	None	Apprenticeship	\$23.14
47-2041	Carpet Installers	No formal educational credential	None	Short-term on-the-job training	\$18.85
47-2044	Tile and Marble Setters	No formal educational credential	None	Long-term on-the-job training	\$24.46
47-2051	Cement Masons and Concrete Finishers	No formal educational credential	None	Moderate-term on-the-job training	\$23.70
47-2061	Construction Laborers	No formal educational credential	None	Short-term on-the-job training	\$22.22
47-2071	Paving, Surfacing, and Tamping Equipment Operators	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.16
47-2073	Operating Engineers and Other Construction Equipment Operators	High school diploma or equivalent	None	Moderate-term on-the-job training	\$28.73
47-2081	Drywall and Ceiling Tile Installers	No formal educational credential	None	Moderate-term on-the-job training	\$23.11
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	\$29.02
47-2121	Glaziers	High school diploma or equivalent	None	Apprenticeship	\$25.19
47-2131	Insulation Workers, Floor, Ceiling, and Wall	No formal educational credential	None	Short-term on-the-job training	\$18.70
47-2132	Insulation Workers, Mechanical	High school diploma or equivalent	None	Apprenticeship	\$28.90
47-2141	Painters, Construction and Maintenance	No formal educational credential	None	Moderate-term on-the-job training	\$21.96
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	\$29.77
47-2181	Roofers	No formal educational credential	None	Moderate-term on-the-job training	\$22.47
47-2211	Sheet Metal Workers	High school diploma or equivalent	None	Apprenticeship	\$28.86
47-2221	Structural Iron and Steel Workers	High school diploma or equivalent	None	Apprenticeship	\$29.44
47-3013	Helpers--Electricians	High school diploma or equivalent	None	Short-term on-the-job training	\$14.81
47-3016	Helpers--Roofers	No formal educational credential	None	Short-term on-the-job training	\$17.97
47-4011	Construction and Building Inspectors	High school diploma or equivalent	5 years or more	Moderate-term on-the-job training	\$29.41
47-4031	Fence Erectors	No formal educational credential	None	Moderate-term on-the-job training	\$19.53
47-4041	Hazardous Materials Removal Workers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.92
47-4051	Highway Maintenance Workers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.58
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.72
47-5013	Service Unit Operators, Oil, Gas, and Mining	No formal educational credential	None	Moderate-term on-the-job training	\$18.70
47-5022	Excavating and Loading Machine and Dragline Operators, Surface Mining	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training	\$22.58
47-5071	Roustabouts, Oil and Gas	No formal educational credential	None	Moderate-term on-the-job training	\$14.70
49-0000	Installation, Maintenance, and Repair Occupations				\$22.94

JobsOhio Regional Network - Northeast Region

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
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	High school diploma or equivalent	Less than 5 years	None	\$30.75
49-2011	Computer, Automated Teller, and Office Machine Repairers	Some college, no degree	None	Short-term on-the-job training	\$18.49
49-2021	Radio, Cellular, and Tower Equipment Installers and Repairers	Associate's degree	None	Moderate-term on-the-job training	\$28.01
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	Postsecondary non-degree award	None	Moderate-term on-the-job training	\$29.42
49-2092	Electric Motor, Power Tool, and Related Repairers	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training	\$23.09
49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipment	Postsecondary non-degree award	None	Long-term on-the-job training	\$30.03 †
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	Postsecondary non-degree award	None	Long-term on-the-job training	\$24.71
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	Postsecondary non-degree award	Less than 5 years	Moderate-term on-the-job training	\$38.58
49-2098	Security and Fire Alarm Systems Installers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.09
49-3011	Aircraft Mechanics and Service Technicians	Postsecondary non-degree award	None	None	\$30.57
49-3021	Automotive Body and Related Repairers	High school diploma or equivalent	None	Long-term on-the-job training	\$22.52
49-3022	Automotive Glass Installers and Repairers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.45
49-3023	Automotive Service Technicians and Mechanics	Postsecondary non-degree award	None	Short-term on-the-job training	\$19.89
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	High school diploma or equivalent	None	Long-term on-the-job training	\$23.03
49-3041	Farm Equipment Mechanics and Service Technicians	High school diploma or equivalent	None	Long-term on-the-job training	\$22.32
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	High school diploma or equivalent	None	Long-term on-the-job training	\$27.39
49-3043	Rail Car Repairers	High school diploma or equivalent	None	Long-term on-the-job training	\$18.55
49-3052	Motorcycle Mechanics	Postsecondary non-degree award	None	Short-term on-the-job training	\$18.05
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	High school diploma or equivalent	None	Moderate-term on-the-job training	\$17.46
49-3092	Recreational Vehicle Service Technicians	High school diploma or equivalent	None	Long-term on-the-job training	\$17.81
49-3093	Tire Repairers and Changers	High school diploma or equivalent	None	Short-term on-the-job training	\$14.63
49-9011	Mechanical Door Repairers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$19.26
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	High school diploma or equivalent	None	Moderate-term on-the-job training	\$35.76
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	Postsecondary non-degree award	None	Long-term on-the-job training	\$23.51
49-9031	Home Appliance Repairers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.36
49-9041	Industrial Machinery Mechanics	High school diploma or equivalent	None	Long-term on-the-job training	\$28.40
49-9043	Maintenance Workers, Machinery	High school diploma or equivalent	None	Long-term on-the-job training	\$24.40
49-9044	Millwrights	High school diploma or equivalent	None	Apprenticeship	\$29.07
49-9051	Electrical Power-Line Installers and Repairers	High school diploma or equivalent	None	Long-term on-the-job training	\$38.58
49-9052	Telecommunications Line Installers and Repairers	High school diploma or equivalent	None	Long-term on-the-job training	\$22.77
49-9062	Medical Equipment Repairers	Associate's degree	None	Moderate-term on-the-job training	\$25.03
49-9071	Maintenance and Repair Workers, General	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.28
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	High school diploma or equivalent	None	Short-term on-the-job training	\$16.24
49-9094	Locksmiths and Safe Repairers	High school diploma or equivalent	None	Long-term on-the-job training	\$22.02
49-9098	Helpers--Installation, Maintenance, and Repair Workers	High school diploma or equivalent	None	Short-term on-the-job training	\$17.48
49-9099	Installation, Maintenance, and Repair Workers, All Other	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.91
51-0000	Production Occupations				\$18.13
51-1011	First-Line Supervisors of Production and Operating Workers	High school diploma or equivalent	Less than 5 years	None	\$29.40
51-2021	Coil Winders, Tapers, and Finishers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.35
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	\$16.54
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	\$16.33

JobsOhio Regional Network - Northeast Region
Occupational* Education and Training Classifications, Projections Report, 2020-2030

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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	\$14.30
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	No formal educational credential	None	Short-term on-the-job training	\$14.21
51-3023	Slaughtering and Meat Packers	No formal educational credential	None	Short-term on-the-job training	\$14.08
51-3092	Food Batchmakers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$14.50
51-3093	Food Cooking Machine Operators and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.35
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	\$18.09
51-4022	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	High school diploma or equivalent	None	Moderate-term on-the-job training	\$21.24
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	\$18.11
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	\$17.47
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	\$21.74
51-4041	Machinists	High school diploma or equivalent	None	Long-term on-the-job training	\$19.00
51-4051	Metal-Refining Furnace Operators and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.30
51-4052	Pourers and Casters, Metal	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.29
51-4062	Patternmakers, Metal and Plastic	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.75
51-4071	Foundry Mold and Coremakers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$21.17
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	\$16.97
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.14
51-4111	Tool and Die Makers	Postsecondary non-degree award	None	Long-term on-the-job training	\$23.65
51-4121	Welders, Cutters, Solderers, and Brazers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$21.60
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.17
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.82
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	\$17.48
51-4194	Tool Grinders, Filers, and Sharpeners	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.18
51-4199	Metal Workers and Plastic Workers, All Other	High school diploma or equivalent	None	Moderate-term on-the-job training	\$17.78
51-5111	Prepress Technicians and Workers	Postsecondary non-degree award	None	None	\$21.23
51-5112	Printing Press Operators	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.13
51-5113	Print Binding and Finishing Workers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$16.73
51-6011	Laundry and Dry-Cleaning Workers	No formal educational credential	None	Short-term on-the-job training	\$11.46
51-6021	Pressers, Textile, Garment, and Related Materials	No formal educational credential	None	Short-term on-the-job training	\$11.25
51-6031	Sewing Machine Operators	No formal educational credential	None	Short-term on-the-job training	\$13.95
51-6052	Tailors, Dressmakers, and Custom Sewers	No formal educational credential	None	Moderate-term on-the-job training	\$14.35
51-6091	Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and Glass Fibers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$14.43
51-7011	Cabinetmakers and Bench Carpenters	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.17
51-7021	Furniture Finishers	High school diploma or equivalent	None	Short-term on-the-job training	\$17.74
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood	High school diploma or equivalent	None	Moderate-term on-the-job training	\$17.83

JobsOhio Regional Network - Northeast Region

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
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	High school diploma or equivalent	None	Moderate-term on-the-job training	\$17.48
51-8012	Power Distributors and Dispatchers	High school diploma or equivalent	None	Long-term on-the-job training	\$46.68
51-8021	Stationary Engineers and Boiler Operators	High school diploma or equivalent	None	Long-term on-the-job training	\$30.24
51-8031	Water and Wastewater Treatment Plant and System Operators	High school diploma or equivalent	None	Long-term on-the-job training	\$23.61
51-8091	Chemical Plant and System Operators	High school diploma or equivalent	None	Moderate-term on-the-job training	\$29.28
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$45.73
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	\$18.06
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.39
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	\$18.13
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.13
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$16.96
51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.20
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.25
51-9071	Jewelers and Precious Stone and Metal Workers	High school diploma or equivalent	None	Long-term on-the-job training	\$21.55
51-9081	Dental Laboratory Technicians	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.53
51-9082	Medical Appliance Technicians	High school diploma or equivalent	None	Moderate-term on-the-job training	\$17.92
51-9111	Packaging and Filling Machine Operators and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$16.74
51-9123	Painting, Coating, and Decorating Workers	No formal educational credential	None	Moderate-term on-the-job training	\$18.05
51-9124	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.33
51-9151	Photographic Process Workers and Processing Machine Operators	High school diploma or equivalent	None	Short-term on-the-job training	\$17.91
51-9161	Computer Numerically Controlled Tool Operators	High school diploma or equivalent	None	Moderate-term on-the-job training	\$21.65
51-9162	Computer Numerically Controlled Tool Programmers	Postsecondary non-degree award	None	Moderate-term on-the-job training	\$27.89
51-9191	Adhesive Bonding Machine Operators and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$17.59
51-9193	Cooling and Freezing Equipment Operators and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.81
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	High school diploma or equivalent	None	Long-term on-the-job training	\$18.02
51-9196	Paper Goods Machine Setters, Operators, and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.40
51-9198	Helpers--Production Workers	High school diploma or equivalent	None	Short-term on-the-job training	\$16.86
51-9199	Production Workers, All Other	High school diploma or equivalent	None	Moderate-term on-the-job training	\$17.74
53-0000	Transportation and Material Moving Occupations				\$17.44
53-1047	FirstLine Supervisors of Transportation & Material Moving Workers, Exc Aircraft Cargo Handling Supervisor	High school diploma or equivalent	Less than 5 years	None	\$23.55
53-2011	Airline Pilots, Copilots, and Flight Engineers	Bachelor's degree	Less than 5 years	Moderate-term on-the-job training	#
53-2012	Commercial Pilots	High school diploma or equivalent	None	Moderate-term on-the-job training	\$97,474 **
53-2021	Air Traffic Controllers	Associate's degree	None	Long-term on-the-job training	\$73.43
53-3031	Driver/Sales Workers	High school diploma or equivalent	None	Short-term on-the-job training	\$11.42
53-3032	Heavy and Tractor-Trailer Truck Drivers	Postsecondary non-degree award	None	Short-term on-the-job training	\$22.95
53-3033	Light Truck or Delivery Services Drivers	High school diploma or equivalent	None	Short-term on-the-job training	\$17.72
53-3052	Bus Drivers, Transit and Intercity	High school diploma or equivalent	None	Moderate-term on-the-job training	\$26.63
53-3058	Passenger Vehicle Drivers, Except Bus Drivers, Transit and Intercity	No formal educational credential	None	Short-term on-the-job training	\$18.05 ^^^

JobsOhio Regional Network - Northeast Region

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

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53-6021	Parking Lot Attendants	No formal educational credential	None	Short-term on-the-job training	\$11.39
53-6031	Automotive and Watercraft Service Attendants	No formal educational credential	None	Short-term on-the-job training	\$13.72
53-6051	Transportation Inspectors	High school diploma or equivalent	None	Moderate-term on-the-job training	\$36.70
53-6098	Aircraft Service Attendants and Transportation Workers, All Other	High school diploma or equivalent	None	Short-term on-the-job training	\$14.39 ^{^^}
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	\$22.71
53-7051	Industrial Truck and Tractor Operators	No formal educational credential	None	Short-term on-the-job training	\$18.45
53-7061	Cleaners of Vehicles and Equipment	No formal educational credential	None	Short-term on-the-job training	\$13.82
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	No formal educational credential	None	Short-term on-the-job training	\$15.21
53-7064	Packers and Packagers, Hand	No formal educational credential	None	Short-term on-the-job training	\$14.33
53-7065	Stockers and Order Fillers	High school diploma or equivalent	None	Short-term on-the-job training	\$14.26
53-7081	Refuse and Recyclable Material Collectors	No formal educational credential	None	Short-term on-the-job training	\$18.41

* Occupations with 100 or more workers.

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

[^] National hourly wage.

^{^^} National annual wage.

^{^^^} National aggregate wage.

Wage above max.

[▲] Wage not available due to OES/SOC changes.

[†] Statewide hourly wage.

^{††} Statewide annual wage.

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

Bureau of Labor Market Information Business Principles for Workforce Development

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

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

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