



In-Demand Occupations Report - 12/10/2019

Occupations with State Annual Earnings ≥ \$14.10 per hour, Annual Growth in Jobs ≥ the Area Average and/or Total Annual Job Openings ≥ the Area Average and JobsOhio Industry Cluster In-Demand Occupations and 2nd Tier Methodology for Forecasted Jobs																	
Ref. No.	Ext. SOC	SOC (Truncated)	Occupation Title-14	Job Family	Starting Wage	Median Wage	Education Level ¹	On-the-Job Training ²	Relevant Work Experience	Total Annual Openings	Growth	Methodology			OMJ		
												Base	JobsOhio	2nd Tier	4-Year No. Postings	No. of Employers	
1	51-3011	51-3011	Bakers	Production Occupations	\$20,250	\$26,513	Less than high school	Long-term on-the-job training	None	905	14			X	6	6	
2	51-3021	51-3021	Butchers and Meat Cutters	Production Occupations	\$24,900	\$36,230	Less than high school	Long-term on-the-job training	None	640	23	X				7	
3	47-2051	47-2051	Cement Masons and Concrete Finishers	Construction & Extraction Occupations	\$31,350	\$47,574	Less than high school	Moderate-term on-the-job training	None	579	52	X				-	
4	47-2061	47-2061	Construction Laborers	Construction & Extraction Occupations	\$27,040	\$41,088	Less than high school	Short-term on-the-job training	None	5,142	392	X				310	46
5	35-2012	35-2012	Cooks, Institution and Cafeteria	Food Preparation & Serving Related Occupations	\$20,350	\$27,398	Less than high school	Short-term on-the-job training	None	2,591	72		X			1,579	49
6	53-7051	53-7051	Industrial Truck and Tractor Operators	Transportation & Material Moving Occupations	\$25,790	\$35,257	Less than high school	Short-term on-the-job training	None	2,532	77	X				1,622	158
7	53-7062	53-7062	Laborers/Freight/Stock/Material Handlers, Hand	Transportation & Material Moving Occupations	\$20,850	\$29,596	Less than high school	Short-term on-the-job training	None	16,347	761	X				7,048	279
8	37-3011	37-3011	Landscape and Groundskeeping Workers	Building & Grounds Cleaning & Maintenance Occupations	\$20,250	\$28,670	Less than high school	Short-term on-the-job training	None	5,908	333			X		428	50
9	53-7063	53-7063	Machine Feeders and Offbearers	Transportation & Material Moving Occupations	\$20,240	\$32,468	Less than high school	Short-term on-the-job training	None	520	-9			X		62	23
10	27-2042	27-2042	Musicians and Singers*	Arts, Design, Entertainment, Sports, & Media Occupations	-	\$49,629	Less than high school	Long-term on-the-job training	None	629	11	X				10	6
11	47-2141	47-2141	Painters, Construction and Maintenance	Construction & Extraction Occupations	\$27,740	\$41,396	Less than high school	Moderate-term on-the-job training	None	848	41	X				49	32
12	41-2022	41-2022	Parts Salespersons	Sales & Related Occupations	\$19,650	\$29,100	Less than high school	Moderate-term on-the-job training	None	1,320	19			X		1,200	17
13	53-7081	53-7081	Refuse and Recyclable Material Collectors	Transportation & Material Moving Occupations	\$23,950	\$38,827	Less than high school	Short-term on-the-job training	None	1,009	98	X				32	5
14	47-2181	47-2181	Roofers	Construction & Extraction Occupations	\$27,840	\$39,875	Less than high school	Moderate-term on-the-job training	None	644	60	X				-	-

Occupations with State Annual Earnings ≥ \$14.10 per hour, Annual Growth in Jobs ≥ the Area Average and/or Total Annual Job Openings ≥ the Area Average and JobsOhio Industry Cluster In-Demand Occupations and 2nd Tier Methodology for Forecasted Jobs																	
Ref. No.	Ext. SOC	SOC (Truncated)	Occupation Title-85	Job Family	Starting Wage	Median Wage	Education Level ¹	On-the-Job Training ²	Relevant Work Experience	Total Annual Openings	Growth	Methodology			OMJ		
												Base	JobsOhio	2nd Tier	4-Year No. Postings	No. of Employers	
15	51-2099	51-2099	Assemblers and Fabricators, All Other*	Production Occupations	-	\$30,690	High school diploma	Moderate-term on-the-job training	None	2,726	-504	X				-	
16	49-3021	49-3021	Automotive Body and Related Repairers	Installation, Maintenance, & Repair Occupations	\$28,780	\$39,487	High school diploma	Long-term on-the-job training	None	646	26	X				157	16
17	43-3011	43-3011	Bill and Account Collectors	Office & Administrative Support Occupations	\$25,710	\$35,437	High school diploma	Moderate-term on-the-job training	None	1,356	-42	X				2,785	208
18	43-3021	43-3021	Billing and Posting Clerks and Machine Operators	Office & Administrative Support Occupations	\$28,780	\$39,487	High school diploma	Moderate-term on-the-job training	None	2,475	240	X				1,234	108
19	47-2021	47-2021	Brickmasons and Blockmasons	Construction & Extraction Occupations	\$38,780	\$56,939	High school diploma	Apprenticeship	None	398	39	X				6	2
20	49-3031	49-3031	Bus and Truck Mechanics & Diesel Engine Spec.	Installation, Maintenance, & Repair Occupations	\$32,200	\$47,430	High school diploma	Long-term on-the-job training	None	1,186	70	X				3,032	123
21	53-3022	53-3022	Bus Drivers, School	Transportation & Material Moving Occupations	\$21,440	\$30,689	High school diploma	Short-term on-the-job training	None	1,464	103	X				265	27
22	51-7011	51-7011	Cabinetmakers and Bench Carpenters	Production Occupations	\$25,040	\$36,241	High school diploma	Moderate-term on-the-job training	None	511	17			X		6	4
23	47-2031	47-2031	Carpenters	Construction & Extraction Occupations	\$31,690	\$47,533	High school diploma	Apprenticeship	None	2,805	191	X				47	22
24	35-1011	35-1011	Chefs and Head Cooks	Food Preparation & Serving Related Occupations	\$23,050	\$41,983	High school diploma	None	5 years or more	601	29	X				140	20
25	51-9011	51-9011	Chemical Equipment Operators/Tenders	Production Occupations	\$40,460	\$48,853	High school diploma	Moderate-term on-the-job training	None	554	-28		X			7	5
26	51-8091	51-8091	Chemical Plant and System Operators	Production Occupations	\$41,410	\$63,434	High school diploma	Moderate-term on-the-job training	None	224	-23		X			172	39
27	13-1031	13-1031	Claims Adjusters, Examiners, and Investigators	Business & Financial Operations Occupations	\$41,980	\$66,792	High school diploma	Long-term on-the-job training	None	881	-27	X				2,692	82
28	51-9121	51-9121	Coating/Printing/Releasing Machine Setters, O/T	Production Occupations	\$26,030	\$36,354	High school diploma	Moderate-term on-the-job training	None	476	-7	X				127	26
29	51-4011	51-4011	Computer-Controlled Machine Tool Oper., M/P	Production Occupations	\$30,010	\$41,630	High school diploma	Moderate-term on-the-job training	None	1,325	13	X				819	119
30	43-4051	43-4051	Customer Service Representatives	Office & Administrative Support Occupations	\$23,680	\$34,715	High school diploma	Short-term on-the-job training	None	11,757	218	X				2,322	153
31	51-4031	51-4031	Cutting/Punching/Press Machine S/O/T, M/P	Production Occupations	\$24,690	\$34,953	High school diploma	Moderate-term on-the-job training	None	1,773	-128	X				239	54
32	43-5032	43-5032	Dispatchers, Except Police, Fire, and Ambulance	Office & Administrative Support Occupations	\$25,410	\$42,297	High school diploma	Moderate-term on-the-job training	None	644	-18	X				420	75
33	51-2022	51-2022	Electrical and Electronic Equipment Assemblers*	Production Occupations	-	\$32,530	High school diploma	Moderate-term on-the-job training	None	847	-191	X				727	80
34	47-2111	47-2111	Electricians	Construction & Extraction Occupations	\$31,870	\$53,629	High school diploma	Apprenticeship	None	2,983	198	X				832	138
35	43-6011	43-6011	Executive Secretaries and Administrative Assistants	Office & Administrative Support Occupations	\$39,700	\$57,916	High school diploma	None	Less than 5 years	1,659	-425	X				6,137	457
36	51-9041	51-9041	Extrud/Form/Pressing/Compacting Mach. S/O/T	Production Occupations	\$25,640	\$39,582	High school diploma	Moderate-term on-the-job training	None	723	-69	X				17	13
37	11-9013	11-9013	Farmers, Ranchers, and Other Agricultural Managers	Management Occupations	\$51,380	\$74,057	High school diploma	None	5 years or more	5,852	-28	X				24	5
38	41-3022	41-3022	First-Line Supervisors of Non-Retail Sales Workers	Sales & Related Occupations	\$73,950	\$95,241	High school diploma	None	Less than 5 years	1,342	7	X				4,658	324
39	47-1011	47-1011	First-Line Sup/Mgrs of Con. Trades/Extract. Work	Construction & Extraction Occupations	\$43,180	\$66,489	High school diploma	None	5 years or more	1,748	152	X				462	121
40	43-1011	43-1011	First-Line Sup/Mgrs of Office & Admin. Support	Office & Administrative Support Occupations	\$37,200	\$55,636	High school diploma	None	Less than 5 years	4,529	64	X				17,943	576
41	39-1021	39-1021	First-Line Sup/Mgrs of Personal Ser. Workers	Personal Care & Service Occupations	\$24,590	\$36,708	High school diploma	None	Less than 5 years	911	101	X				160	16
42	41-1011	41-1011	First-Line Superv./Mgrs of Retail Sales Workers	Sales & Related Occupations	\$24,910	\$39,424	High school diploma	None	Less than 5 years	5,793	135	X				19,810	200
43	53-1031	53-1031	FL Sup/Mgr of Trans/Mat.-Mov. Mach & Veh Op*	Transportation & Material Moving Occupations	-	\$53,810	High school diploma	None	Less than 5 years	777	39	X				6,284	370
44	35-1012	35-1012	FL Sup/Mgrs of Food Prep. & Serving Workers	Food Preparation & Serving Related Occupations	\$22,520	\$31,276	High school diploma	None	Less than 5 years	5,036	51	X				6,915	104
45	53-1021	53-1021	FL Sup/Mgrs of Help/Labor/Mat. Movers, Hand*	Transportation & Material Moving Occupations	-	\$53,810	High school diploma	None	Less than 5 years	782	47	X				199	57
46	37-1011	37-1011	FL Sup/Mgrs of Housekeeping & Janitorial Workers	Building & Grounds Cleaning & Maintenance Occupations	\$28,310	\$42,463	High school diploma	None	Less than 5 years	843	50	X				404	53
47	37-1012	37-1012	FL Sup/Mgrs of Lndscap./Lawn Ser/Grndscpk	Building & Grounds Cleaning & Maintenance Occupations	\$31,960	\$46,612	High school diploma	None	Less than 5 years	673	8	X				144	8
48	49-1011	49-1011	FL Sup/Mgrs of Mechanical/Instal./Repairs	Installation, Maintenance, & Repair Occupations	\$26,640	\$38,386	High school diploma	None	Less than 5 years	1,499	66	X				4,991	445
49	51-1011	51-1011	FL Sup/Mgrs of Production/Operating Workers	Production Occupations	\$40,100	\$61,517	High school diploma	None	Less than 5 years	2,898	-28	X				13,616	635
50	51-3092	51-3092	Food Batchmakers	Production Occupations	\$23,810	\$33,922	High school diploma	Moderate-term on-the-job training	None	868	21	X				42	16
51	11-9051	11-9051	Food Service Managers	Management Occupations	\$32,630	\$52,005	High school diploma	None	Less than 5 years	1,266	36	X				1,169	53
52	47-2121	47-2121	Glaziers	Construction & Extraction Occupations	\$30,360	\$43,904	High school diploma	Apprenticeship	None	183	12		X			-	-
53	51-4033	51-4033	Grind/Lapping/Polish/Buff Mach.Tool S/O/T, M/P	Production Occupations	\$23,910	\$34,303	High school diploma	Moderate-term on-the-job training	None	621	-71	X				105	23
54	31-9099	31-9099	Healthcare Support Workers, All Other*	Healthcare Support Occupations	\$22,960	\$39,520	High school diploma	None	None	581	50	X				71	15
55	51-9198	51-9198	Helpers-Production Workers	Production Occupations	\$21,760	\$30,882	High school diploma	Short-term on-the-job training	None	2,974	142	X				2,200	291
56	49-9041	49-9041	Industrial Machinery Mechanics	Installation, Maintenance, & Repair Occupations	\$35,520	\$52,865	High school diploma	Long-term on-the-job training	None	1,861	137	X				1,469	257
57	51-9061	51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	Production Occupations	\$26,370	\$39,672	High school diploma	Moderate-term on-the-job training	None	3,014	-421	X				1,775	234
58	49-9099	49-9099	Installation, Maintenance, and Repair Workers, All Other*	Installation, Maintenance, & Repair Occupations	\$25,430	\$39,333	High school diploma	Moderate-term on-the-job training	None	1,591	23	X				33	2
59	43-9041	43-9041	Insurance Claims and Policy Processing Clerks	Office & Administrative Support Occupations	\$28,290	\$39,543	High school diploma	Moderate-term on-the-job training	None	2,304	201	X				439	49
60	41-3021	41-3021	Insurance Sales Agents	Sales & Related Occupations	\$28,440	\$49,303	High school diploma	Moderate-term on-the-job training	None	2,281	201	X				5,009	102
61	43-4111	43-4111	Interviewers, Except Eligibility and Loan	Office & Administrative Support Occupations	\$25,220	\$32,383	High school diploma	Short-term on-the-job training	None	1,060	16	X				2,248	85
62	43-4131	43-4131	Loan Interviewers and Clerks	Office & Administrative Support Occupations	\$25,560	\$38,769	High school diploma	Short-term on-the-job training	None	1,257	130	X				947	58
63	51-4041	51-4041	Machinists	Production Occupations	\$29,610	\$42,650	High school diploma	Long-term on-the-job training	None	2,854	56	X				1,400	187
64	49-9071	49-9071	Maintenance and Repair Workers, General	Installation, Maintenance, & Repair Occupations	\$27,040	\$40,767	High school diploma	Moderate-term on-the-job training	None	5,895	320	X				8,047	604
65	49-9043	49-9043	Maintenance Workers, Machinery	Installation, Maintenance, & Repair Occupations	\$30,430	\$46,836	High school diploma	Long-term on-the-job training	None	1,718	14		X			7	4
66	43-6013	43-6013	Medical Secretaries	Office & Administrative Support Occupations	\$25,390	\$34,962	High school diploma	Moderate-term on-the-job training	None	5,278							

86	41-4012.00	41-4012	Sales Rep., Wholesale/Mfg. ex. Tech./Sci. Prod.	Sales & Related Occupations	\$34,440	\$59,327	High school diploma	Moderate-term-on-the-job training	None	5,121	67	X			9,344	345
87	41-3099.00	41-3099	Sales Representatives, Services, All Other*	Sales & Related Occupations	\$27,850	\$52,437	High school diploma	Moderate-term-on-the-job training	None	4,263	181	X			10	5
88	43-6014.00	43-6014	Secretaries, Except Legal, Medical, and Executive	Office & Administrative Support Occupations	\$24,260	\$36,675	High school diploma	Short-term-on-the-job training	None	7,758	-729	X			2,054	322
89	33-9032.00	33-9032	Security Guards	Protective Service Occupations	\$20,060	\$27,314	High school diploma	Short-term-on-the-job training	None	4,474	145	X		X	2,316	104
90	25-3021.00	25-3021	Self-Enrichment Education Teachers	Education, Training, & Library Occupations	\$21,960	\$33,647	High school diploma	None	Less than 5 years	1,371	158	X			33	9
91	43-3071.00	43-3071	Shipping, Receiving, and Traffic Clerks	Office & Administrative Support Occupations	\$28,230	\$33,642	High school diploma	Short-term-on-the-job training	None	3,323	-35	X			1,866	237
92	21-1099.00	21-1099	Social and Human Service Assistants	Community & Social Service Occupations	\$22,840	\$33,099	High school diploma	Short-term-on-the-job training	None	2,233	215	X			5,201	114
93	47-2221.00	47-2221	Structural Iron and Steel Workers	Construction & Extraction Occupations	\$44,950	\$62,048	High school diploma	Apprenticeship	None	383	38	X			-	-
94	51-2092.00	51-2092	Team Assemblers*	Production Occupations	-	\$30,690	High school diploma	Moderate-term-on-the-job training	None	4,125	-444	X			391	71
95	43-3071.00	43-3071	Tellers	Office & Administrative Support Occupations	\$21,970	\$29,237	High school diploma	Short-term-on-the-job training	None	1,939	-186	X		X	12,074	67
96	11-3071.00	11-3071	Transportation, Storage, and Distribution Managers	Management Occupations	\$60,350	\$91,577	High school diploma	None	5 years or more	460	41	X			1,414	259
97	53-3033.00	53-3033	Truck Drivers, Light or Delivery Services	Transportation & Material Moving Occupations	\$20,010	\$31,001	High school diploma	Short-term-on-the-job training	None	4,232	157	X			6,556	151
98	51-4121.00	51-4121	Welders, Cutters, Solderers, and Brazers	Production Occupations	\$29,950	\$40,589	High school diploma	Moderate-term-on-the-job training	None	1,972	52	X			457	96
99	51-4122.00	51-4122	Welding/Soldering/Brazing Machine Setters, O/T	Production Occupations	\$28,710	\$39,383	High school diploma	Moderate-term-on-the-job training	None	287	-28	X			49	21

Projections- Certificate/Some college													Methodology			OMJ	
Ref. No.	Ext. SOC	SOC (Truncated)	Occupation Title- 24	Job Family	Starting Wage	Median Wage	Education Level ¹	On-the-Job Training ²	Relevant Work Experience	Total Annual Openings	Growth	Base	JobsOhio	2nd Tier	4-Year No. Postings	No. of Employers	
102	49-3011.00	49-3011	Aircraft Mechanics and Service Technicians	Installation, Maintenance, & Repair Occupations	\$38,820	\$61,073	Certificate/Some college	None	None	372	44	X			153	27	
103	27-4011.00	27-4011	Audio and Video Equipment Technicians	Arts, Design, Entertainment, Sports, & Media Occupations	\$21,960	\$38,134	Certificate/Some college	Short-term-on-the-job training	None	137	12	X		X	82	42	
104	49-3023.00	49-3023	Automotive Service Technicians and Mechanics	Installation, Maintenance, & Repair Occupations	\$23,620	\$38,515	Certificate/Some college	Short-term-on-the-job training	None	2,655	35	X			1,757	74	
100	43-3031.00	43-3031	Bookkeeping, Accounting, and Auditing Clerks	Office & Administrative Support Occupations	\$26,750	\$39,687	Certificate/Some college	Moderate-term-on-the-job training	None	6,928	-233	X			3,916	454	
101	15-1151.00	15-1151	Computer User Support Specialists	Computer & Mathematical Occupations	\$31,180	\$48,246	Certificate/Some college	None	None	1,440	70	X			13,387	567	
105	31-9091.00	31-9091	Dental Assistants	Healthcare Support Occupations	\$27,730	\$38,532	Certificate/Some college	None	None	1,326	117	X			347	14	
106	49-2094.00	49-2094	Electrical/Electronics Repair, Comm/Indus Equip.	Installation, Maintenance, & Repair Occupations	\$39,990	\$59,098	Certificate/Some college	Long-term-on-the-job training	None	200	0			X	298	62	
107	29-2041.00	29-2041	Emergency Medical Technicians and Paramedics	Healthcare Practitioners & Technical Occupations	\$22,010	\$30,909	Certificate/Some college	None	None	818	130	X			1,500	48	
108	29-2099.00	29-2099	Health Technicians and Technicians, All Other*	Healthcare Practitioners & Technical Occupations	\$28,720	\$43,259	Certificate/Some college	None	None	243	54	X			827	49	
109	49-9021.00	49-9021	Heating, AC, & Refrigeration Mechanics/Installers	Installation, Maintenance, & Repair Occupations	\$30,970	\$47,972	Certificate/Some college	Long-term-on-the-job training	None	1,377	177	X			194	61	
110	29-2061.00	29-2061	Licensed Practical and Licensed Vocational Nurses	Healthcare Practitioners & Technical Occupations	\$34,220	\$44,285	Certificate/Some college	None	None	3,334	382	X			7,897	87	
111	31-9011.00	31-9011	Massage Therapists	Healthcare Support Occupations	\$20,730	\$38,230	Certificate/Some college	None	None	450	85	X			67	11	
112	31-9092.00	31-9092	Medical Assistants	Healthcare Support Occupations	\$25,160	\$33,028	Certificate/Some college	None	None	3,146	464	X			13,477	107	
113	29-2071.00	29-2071	Medical Records and Health Information Technicians	Healthcare Practitioners & Technical Occupations	\$28,530	\$40,754	Certificate/Some college	None	None	718	127	X			5,718	125	
114	51-4012.00	51-4012	Numerical Tool and Process Control Programmers	Production Occupations	\$36,170	\$50,512	Certificate/Some college	Moderate-term-on-the-job training	None	247	34			X	91	29	
115	31-1014.00	31-1014	Nursing Assistants	Healthcare Support Occupations	\$22,010	\$28,190	Certificate/Some college	None	None	8,184	358	X			12,848	76	
116	29-2057.00	29-2057	Ophthalmic Medical Technicians	Healthcare Practitioners & Technical Occupations	\$27,060	\$37,275	Certificate/Some college	None	None	156	18			X	56	10	
117	29-2099.00	29-2099	Ophthalmic Medical Technologists**	Healthcare Practitioners & Technical Occupations	\$29,720	\$40,269	Certificate/Some college	None	None	343	58			X	867	49	
118	31-9097.00	31-9097	Phlebotomists	Healthcare Support Occupations	\$25,500	\$35,311	Certificate/Some college	None	None	722	112	X			1,528	47	
119	29-2099.00	29-2099	Radiologic Technicians**	Healthcare Practitioners & Technical Occupations	\$29,720	\$40,269	Certificate/Some college	None	None	343	54			X	827	49	
120	29-2055.00	29-2055	Surgical Technologists	Healthcare Practitioners & Technical Occupations	\$33,090	\$46,987	Certificate/Some college	None	None	363	36	X			2,303	58	
121	49-2022.00	49-2022	Telecomm. Equip. Install/Repair, ex. Line Install	Installation, Maintenance, & Repair Occupations	\$33,680	\$52,394	Certificate/Some college	Moderate-term-on-the-job training	None	856	-62	X			270	36	
122	51-4111.00	51-4111	Tool and Die Makers	Production Occupations	\$36,640	\$51,357	Certificate/Some college	Long-term-on-the-job training	None	653	-55	X			284	62	
123	53-3032.00	53-3032	Truck Drivers, Heavy and Tractor-Trailer	Transportation & Material Moving Occupations	\$33,310	\$44,717	Certificate/Some college	Short-term-on-the-job training	None	8,465	301	X			12,921	177	

Projections- Associate's degree													Methodology			OMJ	
Ref. No.	Ext. SOC	SOC (Truncated)	Occupation Title- 17	Job Family	Starting Wage	Median Wage	Education Level ¹	On-the-Job Training ²	Relevant Work Experience	Total Annual Openings	Growth	Base	JobsOhio	2nd Tier	4-Year No. Postings	No. of Employers	
124	15-1152.00	15-1152	Computer Network Support Specialists	Computer & Mathematical Occupations	\$38,330	\$58,747	Associate's degree	None	None	776	45	X			14,176	48	
125	29-2021.00	29-2021	Dental Hygienists	Healthcare Practitioners & Technical Occupations	\$54,320	\$70,763	Associate's degree	None	None	178	89	X			123	13	
126	29-2032.00	29-2032	Diagnostic Medical Sonographers	Healthcare Practitioners & Technical Occupations	\$52,100	\$65,922	Associate's degree	None	None	565	43	X			1,423	56	
127	17-3023.00	17-3023	Electrical and Electronic Engineering Technicians	Architecture & Engineering Occupations	\$39,150	\$62,984	Associate's degree	None	None	203	-3		X		1,328	204	
118	17-3024.00	17-3024	Electro-Mechanical Technicians	Architecture & Engineering Occupations	\$39,800	\$57,550	Associate's degree	None	None	35	0		X		88	40	
129	19-4091.00	19-4091	Environ. Science & Protection Tech., inc. Health	Life, Physical, & Social Science Occupations	\$28,590	\$45,278	Associate's degree	None	None	203	15			X	960	130	
130	43-4161.00	43-4161	Human Resources Assist., ex. Payroll & Timekp	Office & Administrative Support Occupations	\$29,590	\$39,955	Associate's degree	None	None	485	-12	X		X	1,325	289	
131	17-3026.00	17-3026	Industrial Engineering Technicians	Architecture & Engineering Occupations	\$38,840	\$55,096	Associate's degree	None	None	75	2			X	1,689	250	
132	17-3027.00	17-3027	Mechanical Engineering Technicians	Architecture & Engineering Occupations	\$40,570	\$55,185	Associate's degree	None	None	218	16		X		145	49	
133	29-2012.00	29-2012	Medical and Clinical Laboratory Technicians*	Healthcare Practitioners & Technical Occupations	-	\$51,770	Associate's degree	None	None	464	60	X			2,811	79	
134	31-2011.00	31-2011	Occupational Therapist Assistants	Healthcare Support Occupations	\$47,770	\$61,583	Associate's degree	None	None	576	95	X			1,116	45	
135	23-2011.00	23-2011	Paralegals and Legal Assistants	Legal Occupations	\$31,400	\$46,384	Associate's degree	None	None	872	45	X			489	115	
136	31-2021.00	31-2021	Physical Therapist Assistants	Healthcare Support Occupations	\$45,850	\$60,676	Associate's degree	None	None	1,065	171	X			1,407	47	
137	25-2011.00	25-2011	Preschool Teachers, Except Special Education	Education, Training, & Library Occupations	\$31,890	\$45,897	Associate's degree	None	None	1,572	22			X	167	12	
138	29-2034.00	29-2034	Radiologic Technologists	Healthcare Practitioners & Technical Occupations	\$43,220	\$57,795	Associate's degree	None	None	552	81	X			3,641	67	
139	29-1126.00	29-1126	Respiratory Therapists	Healthcare Practitioners & Technical Occupations	\$44,680	\$57,754	Associate's degree	None	None	504	164	X			2,593	55	
140	15-1134.00	15-1134	Web Developers	Computer & Mathematical Occupations	\$36,100	\$63,608	Associate's degree	None	None	284	23		X		8,011	277	

Projections- Bachelor's degree													Methodology			OMJ	
Ref. No.	Ext. SOC	SOC (Truncated)	Occupation Title- 74	Job Family	Starting Wage	Median Wage	Education Level ¹	On-the-Job Training ²	Relevant Work Experience	Total Annual Openings	Growth	Base	JobsOhio	2nd Tier	4-Year No. Postings	No. of Employers	
141	13-2011.00	13-2011	Accountants and Auditors	Business & Financial Operations Occupations	\$45,290	\$66,412	Bachelor's degree	None	None	4,493	253	X			14,176	570	
142	15-2011.00	15-2011	Actuaries	Computer & Mathematical Occupations	\$62,670	\$96,206	Bachelor's degree	Long-term-on-the-job training	None	99	25		X		2,038	23	
143	11-3011.00	11-3011	Administrative Services Managers	Management Occupations	\$58,950	\$87,292	Bachelor's degree	None	Less than 5 years	884	72	X			248	99	
144	17-2011.00	17-2011	Aerospace Engineers	Architecture & Engineering Occupations	\$79,350	\$112,970	Bachelor's degree	None	None	330	30			X	705	65	
145	13-2021.00	13-2021	Appraisers and Assessors of Real Estate	Business & Financial Operations Occupations	\$29,300	\$57,924	Bachelor's degree	Long-term-on-the-job training	None	198	41	X			121	15	
146	11-9041.00	11-9041	Architectural and Engineering Managers	Management Occupations	\$93,980	\$132,125	Bachelor's degree	None	5 years or more	503	40	X			1,341	241	
147	15-1199.00	15-1199	Business Intelligence Analysts**	Computer & Mathematical Occupations	\$45,130	\$84,573	Bachelor's degree	None	None	489	50			X	27,832	437	
148	13-1199.00	13-1199	Business Operations Specialists, All Other*	Business & Financial Operations Occupations	\$40,610	\$67,746	Bachelor's degree	None	None	3,401	250	X			592	76	
149	17-2041.00	17-2041	Chemical Engineers	Architecture & Engineering Occupations	\$59,970	\$96,196	Bachelor's degree	None	None	102	9		X		337	59	
150	19-2031.00	19-2031	Chemists	Life, Physical, & Social Science Occupations	\$46,780	\$69,084	Bachelor's degree	None	None	390	20			X	880	77	
151	21-4021.00	21-4021	Child, Family, and School Social Workers	Community & Social Service Occupations	\$31,060	\$43,273	Bachelor's degree	None	None	1,232	167	X			198	35	
152	17-3051.00	17-3051	Civil Engineers	Architecture & Engineering Occupations	\$53,870	\$80,219	Bachelor's degree	None	None	653	61						

174	13-2099.00	13-2099	Financial Specialists, All Other ³	Business & Financial Operations Occupations	\$49,110	\$77,750	Bachelor's degree	Moderate-term on-the-job training	None	567	64	X		125	33
175	13-1131.00	13-1131	Fundraisers	Business & Financial Operations Occupations	\$31,710	\$55,458	Bachelor's degree	None	None	521	39	X		55	20
176	11-1021.00	11-1021	General and Operations Managers	Management Occupations	\$50,180	\$98,760	Bachelor's degree	None	5 years or more	5,791	360	X		9,309	430
177	27-1024.00	27-1024	Graphic Designers	Arts, Design, Entertainment, Sports, & Media Occupations	\$30,260	\$47,837	Bachelor's degree	None	None	837	26	X		1,062	190
178	17-2111.00	17-2111	Health & Safety Engineers, ex. Mining Safety	Architecture & Engineering Occupations	\$63,010	\$90,034	Bachelor's degree	None	None	36	2		X	1,883	279
179	13-1071.00	13-1071	Human Resources Specialists	Business & Financial Operations Occupations	\$38,200	\$59,424	Bachelor's degree	None	None	2,079	127	X		3,559	365
180	17-2112.00	17-2112	Industrial Engineers	Architecture & Engineering Occupations	\$58,460	\$82,573	Bachelor's degree	None	None	1,102	126	X		18,379	555
181	11-3051.00	11-3051	Industrial Production Managers	Management Occupations	\$64,770	\$102,510	Bachelor's degree	None	5 years or more	738	-13	X		1,133	239
182	15-1122.00	15-1122	Information Security Analysts	Computer & Mathematical Occupations	\$59,300	\$91,467	Bachelor's degree	None	Less than 5 years	292	75	X		5,055	189
183	15-1199.00	15-1199	Information Technology Project Managers ⁴	Computer & Mathematical Occupations	\$45,130	\$84,573	Bachelor's degree	None	None	489	50		X	27,832	437
184	13-2072.00	13-2072	Loan Officers	Business & Financial Operations Occupations	\$37,250	\$66,556	Bachelor's degree	Moderate-term on-the-job training	None	1,158	123	X		8,095	70
185	13-1081.00	13-1081	Logisticians	Business & Financial Operations Occupations	\$50,900	\$74,519	Bachelor's degree	None	None	614	33	X		2,242	239
186	13-1111.00	13-1111	Management Analysts	Business & Financial Operations Occupations	\$46,500	\$79,873	Bachelor's degree	None	Less than 5 years	2,219	291	X		16,941	367
187	11-9199.00	11-9199	Managers, All Other ⁴	Management Occupations	\$63,160	\$100,277	Bachelor's degree	None	Less than 5 years	1,896	169	X		1,621	192
188	17-2199.04	17-2199	Manufacturing Engineers ⁴	Architecture & Engineering Occupations	\$52,550	\$91,478	Bachelor's degree	None	None	527	45		X	360	120
189	13-1151.00	13-1151	Market Research Analysts and Marketing Specialists	Business & Financial Operations Occupations	\$38,110	\$61,593	Bachelor's degree	None	None	2,766	434	X		8,314	366
190	11-2021.00	11-2021	Marketing Managers	Management Occupations	\$76,580	\$125,610	Bachelor's degree	None	5 years or more	532	44	X		14,429	478
191	17-2141.00	17-2141	Mechanical Engineers	Architecture & Engineering Occupations	\$56,120	\$79,268	Bachelor's degree	None	None	1,165	181	X		4,355	275
192	29-2011.00	29-2011	Medical and Clinical Laboratory Technologists ⁴	Healthcare Practitioners & Technical Occupations	-	\$51,770	Bachelor's degree	None	None	504	66	X		2,637	77
193	11-9111.00	11-9111	Medical and Health Services Managers	Management Occupations	\$65,100	\$93,817	Bachelor's degree	None	Less than 5 years	1,570	253	X		13,346	163
194	11-9121.00	11-9121	Natural Sciences Managers	Management Occupations	\$81,150	\$124,048	Bachelor's degree	None	5 years or more	113	16		X	1,764	78
195	15-1142.00	15-1142	Network and Comp. Systems Architects and Admins	Computer & Mathematical Occupations	\$51,350	\$76,954	Bachelor's degree	None	None	861	4	X		9,202	423
196	15-2031.00	15-2031	Operations Research Analysts	Computer & Mathematical Occupations	\$55,870	\$81,437	Bachelor's degree	None	None	346	94	X		3,959	290
197	13-2052.00	13-2052	Personal Financial Advisors	Business & Financial Operations Occupations	\$43,300	\$76,441	Bachelor's degree	Long-term on-the-job training	None	780	164	X		1,690	45
198	27-3031.00	27-3031	Public Relations Specialists	Arts, Design, Entertainment, Sports, & Media Occupations	\$36,870	\$60,272	Bachelor's degree	None	None	764	50	X		2,573	272
199	13-1023.00	13-1023	Purchasing Agents, ex. Wholesale, Retail, & Farm ⁴	Business & Financial Operations Occupations	\$66,120	\$96,120	Bachelor's degree	Moderate-term on-the-job training	None	1,013	-75	X		3,248	385
200	11-3061.00	11-3061	Purchasing Managers	Management Occupations	\$78,130	\$121,041	Bachelor's degree	None	None	220	16		X	3,183	283
201	29-1141.00	29-1141	Registered Nurses	Healthcare Practitioners & Technical Occupations	\$52,780	\$65,707	Bachelor's degree	None	None	8,848	1,839	X		38,406	175
202	17-2199.08	17-2199	Robotics Engineers ⁴	Architecture & Engineering Occupations	\$52,550	\$91,478	Bachelor's degree	None	None	527	45		X	360	120
203	41-9031.00	41-9031	Sales Engineers	Sales & Related Occupations	\$57,640	\$89,646	Bachelor's degree	Moderate-term on-the-job training	None	377	5		X	1,579	152
204	11-2022.00	11-2022	Sales Managers	Management Occupations	\$74,180	\$124,459	Bachelor's degree	None	Less than 5 years	1,072	52	X		7,183	385
205	41-4011.00	41-4011	Sales Rep., Wholesale & Mfg. Tech./Sci. Prod.	Sales & Related Occupations	\$41,320	\$77,948	Bachelor's degree	Moderate-term on-the-job training	None	1,999	37	X		4,519	237
206	15-1199.10	15-1199	Search Marketing Strategists ⁴	Computer & Mathematical Occupations	\$45,130	\$84,573	Bachelor's degree	None	None	489	50		X	27,832	437
207	41-3031.00	41-3031	Securities/Commodities/Fin. Serv. Sales Agents	Sales & Related Occupations	\$34,530	\$59,554	Bachelor's degree	Moderate-term on-the-job training	None	1,103	77	X		14,651	150
208	11-9151.00	11-9151	Social and Community Service Managers	Management Occupations	\$47,010	\$69,875	Bachelor's degree	None	Less than 5 years	505	80	X		498	67
209	15-1132.00	15-1132	Software Developers, Applications	Computer & Mathematical Occupations	\$58,530	\$93,422	Bachelor's degree	None	None	3,011	615	X		16,015	338
210	15-1133.00	15-1133	Software Developers, Systems Software	Computer & Mathematical Occupations	\$65,830	\$101,149	Bachelor's degree	None	None	378	9		X	1,314	127
211	15-1199.01	15-1199	Software Quality Assurance Engineers and Testers ⁴	Computer & Mathematical Occupations	\$45,130	\$84,573	Bachelor's degree	None	None	489	50		X	27,832	437
212	17-2199.11	17-2199	Solar Energy Systems Engineers ⁴	Architecture & Engineering Occupations	\$52,550	\$91,478	Bachelor's degree	None	None	527	45		X	360	120
213	21-1011.00	21-1011	Substance Abuse & Behavioral Dis. Counselors ⁴	Community & Social Service Occupations	-	\$43,300	Bachelor's degree	None	None	395	51	X		201	31
214	13-1151.00	13-1151	Training and Development Specialists	Business & Financial Operations Occupations	\$34,990	\$57,976	Bachelor's degree	None	Less than 5 years	1,007	83	X		3,662	338

Projections- Master's degree											Methodology			OMJ		
Ref. No.	Ext. SOC	SOC (Truncated)	Occupation Title- 8	Job Family	Starting Wage	Median Wage	Education Level ¹	On-the-Job Training ²	Relevant Work Experience	Total Annual Openings	Growth	Base	JobsOhio	2nd Tier	4-Year No. Postings	No. of Employers
215	21-1022.00	21-1022	Medical and Public Health Social Workers	Community & Social Service Occupations	\$38,520	\$54,786	Master's degree	Internship/residency	None	1,174	153	X			2,443	69
216	21-1023.00	21-1023	Mental Health and Substance Abuse Social Workers	Community & Social Service Occupations	\$30,400	\$41,184	Master's degree	Internship/residency	None	641	84	X			2,742	65
217	21-1014.00	21-1014	Mental Health Counselors ⁴	Community & Social Service Occupations	\$45,300	\$73,041	Master's degree	Internship/residency	None	700	112	X			218	29
218	29-1171.00	29-1171	Nurse Practitioners	Healthcare Practitioners & Technical Occupations	\$86,580	\$103,380	Master's degree	None	None	574	201	X			1,324	68
219	29-1122.00	29-1122	Occupational Therapists	Healthcare Practitioners & Technical Occupations	\$62,350	\$86,299	Master's degree	None	None	367	104	X			2,717	55
220	29-1071.00	29-1071	Physician Assistants	Healthcare Practitioners & Technical Occupations	\$78,810	\$108,426	Master's degree	None	None	294	99	X			1,384	71
221	21-1015.00	21-1015	Rehabilitation Counselors	Community & Social Service Occupations	\$24,240	\$35,289	Master's degree	None	None	618	79	X			25	14
222	29-1127.00	29-1127	Speech-Language Pathologists	Healthcare Practitioners & Technical Occupations	\$50,080	\$76,136	Master's degree	Internship/residency	None	375	90	X			1,728	46

Projections- Doctoral/ Professional degree											Methodology			OMJ		
Ref. No.	Ext. SOC	SOC (Truncated)	Occupation Title- 7	Job Family	Starting Wage	Median Wage	Education Level ¹	On-the-Job Training ²	Relevant Work Experience	Total Annual Openings	Growth	Base	JobsOhio	2nd Tier	4-Year No. Postings	No. of Employers
223	19-3031.00	19-3031	Clinical, Counseling, and School Psychologists	Life, Physical, & Social Science Occupations	\$45,730	\$74,641	Doctoral/ Professional degree	Internship/residency	None	326	54	X			254	18
224	29-1021.00	29-1021	Dentists, General	Healthcare Practitioners & Technical Occupations	\$94,910	\$192,811	Doctoral/ Professional degree	None	None	158	48	X			56	6
225	23-1011.00	23-1011	Lawyers	Legal Occupations	\$57,470	\$100,842	Doctoral/ Professional degree	None	None	862	22	X			1,697	151
226	19-1042.00	19-1042	Medical Scientists, Except Epidemiologists	Life, Physical, & Social Science Occupations	\$49,060	\$69,442	Doctoral/ Professional degree	None	None	426	52	X			3,870	70
227	29-1051.00	29-1051	Pharmacists	Healthcare Practitioners & Technical Occupations	\$82,460	\$124,628	Doctoral/ Professional degree	None	None	628	72	X			6,727	78
228	29-1123.00	29-1123	Physical Therapists	Healthcare Practitioners & Technical Occupations	\$65,800	\$89,011	Doctoral/ Professional degree	None	None	537	175	X			3,627	69
229	29-1069.00	29-1069	Physicians and Surgeons, All Other ⁴	Healthcare Practitioners & Technical Occupations	\$91,560	\$206,920	Doctoral/ Professional degree	Internship/residency	None	534	117	X			457	58



Occupations with Annual Earnings ≥ \$14.10 per hour, Job Growth Count ≥ the Area Average (36 jobs), And/Or Total Annual Openings ≥ the Area Average (584 jobs)																
Regional jobs forecasted may not total to the state due to various statewide only forecasted data.																
Data across all tables may not be comparable due to differences in reporting periods, data source and data compression and rounding																
*The openings and growth numbers for this occupation represent an occupational category that includes, but is larger than the specific occupational title listed																
Typical education level needed to enter the occupation, using the US Bureau of Labor Statistics (BLS) education and training classification system																
¹ Typical on-the-job training needed to attain competency in the occupation (https://www.bls.gov/emp/documentation/education/tech.htm)																
² Wage was calculated by multiplying the hourly wage by 2,080 to approximate an annual wage																
⁴ National wage is displayed as the state wage data is unavailable																