

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	Job Family	Projections		Education Level ¹	On-the-Job Training ²	Relevant Work Experience	Total Annual Openings	Growth	Methodology			OMJ	
					Starting Wage	Median Wage						Base	JobsOhio	2nd Tier	4-Year No. Postings	No. of Employers
1	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
2	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
3	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
4	17-2011.00	17-2011	Aerospace Engineers	Architecture & Engineering Occupations	\$79,350	\$112,970	Bachelor's degree	None	None	330	30			X	705	65
5	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
6	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
7	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
8	51-2099.00	51-2099	Assemblers and Fabricators, All Other ⁴	Production Occupations	-	\$30,690	High school diploma	Moderate-term on-the-job training	None	2,726	-504	X			-	-
9	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		82	42
10	49-3021.00	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
11	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
12	51-3011.00	51-3011	Bakers	Production Occupations	\$20,620	\$26,513	Less than high school	Long-term on-the-job training	None	906	14			X	8	6
13	43-3011.00	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	200
14	43-3021.00	43-3021	Billing and Posting Clerks and Machine Operators	Office & Administrative Support Occupations	\$28,280	\$37,810	High school diploma	Moderate-term on-the-job training	None	2,475	240	X			1,234	108
15	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
16	47-2021.00	47-2021	Brickmasons and Blockmasons	Construction & Extraction Occupations	\$38,780	\$56,939	High school diploma	Apprenticeship	None	398	39	X			6	2
17	49-3031.00	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
18	53-3022.00	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
19	15-1199.08	15-1199	Business Intelligence Analysts ^{3*}	Computer & Mathematical Occupations	\$45,130	\$84,573	Bachelor's degree	None	None	489	50		X		27,832	437
20	13-1199.00	13-1199	Business Operations Specialists, All Other ³	Business & Financial Operations Occupations	\$40,610	\$67,746	Bachelor's degree	None	None	3,401	250	X			592	76
21	51-3021.00	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			106	7
22	51-7011.00	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	47-2031.00	47-2031	Carpenters	Construction & Extraction Occupations	\$31,690	\$47,533	High school diploma	Apprenticeship	None	2,805	191	X			47	22
24	47-2051.00	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			-	-
25	35-1011.00	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
26	17-2041.00	17-2041	Chemical Engineers	Architecture & Engineering Occupations	\$59,970	\$96,196	Bachelor's degree	None	None	102	9		X		337	59
27	51-9011.00	51-9011	Chemical Equipment Operators/Tenders	Production Occupations	\$30,460	\$48,853	High school diploma	Moderate-term on-the-job training	None	554	-28		X		7	5
28	51-8091.00	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
29	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
30	21-1021.00	21-1021	Child, Family, and School Social Workers	Community & Social Service Occupations	\$31,100	\$43,723	Bachelor's degree	None	None	1,222	167	X			198	35
31	17-2051.00	17-2051	Civil Engineers	Architecture & Engineering Occupations	\$53,870	\$80,219	Bachelor's degree	None	None	653	61	X			846	80
32	13-1031.00	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
33	21-2011.00	21-2011	Clergy	Community & Social Service Occupations	\$29,320	\$46,025	Bachelor's degree	Moderate-term on-the-job training	None	2,168	77	X			186	22
34	19-3031.00	19-3031	Clinical, Counseling, and School Psychologists	Life, Physical, & Social Science Occupations	\$45,750	\$74,641	Doctoral/Professional degree	Internship/residency	None	326	54	X			254	18
35	51-9121.00	51-9121	Coating/Painting/Spraying Machine Setters, O/T	Production Occupations	\$26,020	\$36,354	High school diploma	Moderate-term on-the-job training	None	675	-7	X			127	26
36	13-1141.00	13-1141	Compensation, Benefits, and Job Analysis Specialists	Business & Financial Operations Occupations	\$39,280	\$60,051	Bachelor's degree	None	Less than 5 years	314	45	X			1,330	176
37	13-1041.00	13-1041	Compl. Off., ex. Agric. Con, Hlth/Safety, & Trans.	Business & Financial Operations Occupations	\$38,850	\$63,699	Bachelor's degree	Moderate-term on-the-job training	None	645	54	X			740	165
38	11-3021.00	11-3021	Computer and Information Systems Managers	Management Occupations	\$84,570	\$128,189	Bachelor's degree	None	5 years or more	1,058	62	X			7,432	286
39	15-1143.00	15-1143	Computer Network Architects	Computer & Mathematical Occupations	\$62,560	\$98,795	Bachelor's degree	None	5 years or more	339	-7		X		1,295	140
40	15-1152.00	15-1152	Computer Network Support Specialists	Computer & Mathematical Occupations	\$38,350	\$58,747	Associate's degree	None	None	776	45	X			206	48
41	15-1199.00	15-1199	Computer Occupations, All Other ²	Computer & Mathematical Occupations	\$45,130	\$84,573	Bachelor's degree	None	None	489	50	X			27,832	437
42	15-1131.00	15-1131	Computer Programmers	Computer & Mathematical Occupations	\$43,610	\$74,488	Bachelor's degree	None	None	241	-93		X		4,524	281
43	15-1121.00	15-1121	Computer Systems Analysts	Computer & Mathematical Occupations	\$60,630	\$86,074	Bachelor's degree	None	None	1,867	42	X			15,531	434
44	15-1199.02	15-1199	Computer Systems Engineers/Architects ^{3*}	Computer & Mathematical Occupations	\$45,130	\$84,573	Bachelor's degree	None	None	489	50			X	27,832	437
45	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
46	51-4011.00	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
47	47-2061.00	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
48	11-9021.00	11-9021	Construction Managers	Management Occupations	\$63,620	\$93,643	Bachelor's degree	Moderate-term on-the-job training	None	1,204	134	X			682	107
49	35-2012.00	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
50	13-1051.00	13-1051	Cost Estimators	Business & Financial Operations Occupations	\$39,580	\$62,312	Bachelor's degree	Moderate-term on-the-job training	None	1,211	93	X			253	63
51	43-4051.00	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			23,162	553
52	51-4031.00	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
53	15-1141.00	15-1141	Database Administrators	Computer & Mathematical Occupations	\$52,810	\$92,092	Bachelor's degree	None	None	309	28		X		2,653	193
54	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
55	29-2021.00	29-2021	Dental Hygienists	Healthcare Practitioners & Technical Occupations	\$54,320	\$70,763	Associate's degree	None	None	578	89	X			123	13
56	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
57	29-2032.00	29-2032	Diagnostic Medical Sonographers	Healthcare Practitioners & Technical Occupations	\$52,100	\$65,922	Associate's degree	None	None	165	43	X			1,423	56
58	43-5032.00	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
59	11-9031.00	11-9031	Education Admin., Pre & Child Care Center/Prog.	Management Occupations	\$29,950	\$45,151	Bachelor's degree	None	Less than 5 years	258	46	X			16	11
60	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
61	51-2022.00	51-2022	Electrical and Electronic Equipment Assemblers ⁴	Production Occupations	-	\$32,530	High school diploma	Moderate-term on-the-job training	None	847	-191	X			727	80
62	17-2071.00	17-2071	Electrical Engineers	Architecture & Engineering Occupations	\$56,130	\$85,756	Bachelor's degree	None	None	446	41	X			4,151	230
63	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
64	47-2111.00	47-2111	Electricians	Construction & Extraction Occupations	\$31,870	\$53,629	High school diploma	Apprenticeship	None	2,983	198	X			832	138
65	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
66	17-2072.00	17-2072	Electronics Engineers, Except Computer	Architecture & Engineering Occupations	\$59,560	\$97,936	Bachelor's degree	None	None	258	17			X	578	115
67	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	44
68	13-1199.01	13-1199	Energy Auditors ^{3*}	Business & Financial Operations Occupations	\$40,610	\$67,746	Bachelor's degree	None	None	3,401	250			X	592	76
69	17-2199.00	17-2199	Engineers, All Other ²	Architecture & Engineering Occupations	\$52,550	\$91,478	Bachelor's degree	None	None	527	45	X			360	120
70	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

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Ref. No.	Ext. SOC	SOC (Truncated)	Occupation Title	Job Family	Projections				Methodology			OMJ				
					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
71	43-6011.00	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
72	51-9041.00	51-9041	Extrud/Form/Pressing/Compacting Mach. S/O/T	Production Occupations	\$25,640	\$33,582	High school diploma	Moderate-term on-the-job training	None	723	-69	X			17	13
73	11-9013.00	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
74	13-2051.00	13-2051	Financial Analysts	Business & Financial Operations Occupations	\$51,430	\$73,903	Bachelor's degree	None	None	914	108	X			5,245	268
75	13-2061.00	13-2061	Financial Examiners	Business & Financial Operations Occupations	\$49,370	\$74,139	Bachelor's degree	Long-term on-the-job training	None	317	46	X			1,117	65
76	11-3031.00	11-3031	Financial Managers	Management Occupations	\$73,450	\$121,356	Bachelor's degree	None	5 years or more	2,052	362	X			14,142	395
77	13-2099.01	13-2099	Financial Quantitative Analysts**	Business & Financial Operations Occupations	\$49,110	\$77,750	Bachelor's degree	Moderate-term on-the-job training	None	567	64		X		125	33
78	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
79	41-1012.00	41-1012	First-Line Sup./Mgrs of Non-Retail Sales Workers	Sales & Related Occupations	\$41,780	\$71,996	High school diploma	None	Less than 5 years	1,242	47	X			4,638	324
80	47-1011.00	47-1011	First-Line Sup./Mgros 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
81	43-1011.00	43-1011	First-Line Sup/Mgros 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
82	39-1021.00	39-1021	First-Line Sup/Mgros of Personal Serv. Workers	Personal Care & Service Occupations	\$24,590	\$36,708	High school diploma	None	Less than 5 years	911	101	X			160	16
83	41-1011.00	41-1011	First-Line Superv./Mgros 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
84	53-1031.00	53-1031	FL Sup/Mgr of Trans/Mat.-Mov. Mach & Veh Op ⁴	Transportation & Material Moving Occupations	-	\$53,810	High school diploma	None	Less than 5 years	777	39	X			6,284	370
85	35-1012.00	35-1012	FL Sup/Mgros 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
86	53-1021.00	53-1021	FL Sup/Mgros of Help/Labor/Mat. Movers, Hand ⁴	Transportation & Material Moving Occupations	-	\$53,810	High school diploma	None	Less than 5 years	782	47	X			199	57
87	37-1011.00	37-1011	FL Sup/Mgros of Housekping & Janitorial Workers	Building & Grounds Cleaning & Maintenance Occupations	\$28,310	\$42,463	High school diploma	None	Less than 5 years	843	50	X			404	53
88	37-1012.00	37-1012	FL Sup/Mgros of Lndscap./Lawn Ser/Groundskp	Building & Grounds Cleaning & Maintenance Occupations	\$31,960	\$46,612	High school diploma	None	Less than 5 years	673	53	X			144	8
89	49-1011.00	49-1011	FL Sup/Mgros of Mechanics/Installers/Repairers	Installation, Maintenance, & Repair Occupations	\$41,110	\$64,666	High school diploma	None	Less than 5 years	1,499	66	X			4,991	446
90	51-1011.00	51-1011	FL Sup/Mgros 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
91	51-3092.00	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
92	11-9051.00	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
93	13-1131.00	13-1131	Fundraisers	Business & Financial Operations Occupations	\$31,710	\$55,458	Bachelor's degree	None	None	521	39	X			55	20
94	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
95	47-2121.00	47-2121	Glaziers	Construction & Extraction Occupations	\$30,360	\$43,904	High school diploma	Apprenticeship	None	183	12		X		-	-
96	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
97	51-4033.00	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
98	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
99	29-2099.00	29-2099	Health Technologists and Technicians, All Other ³	Healthcare Practitioners & Technical Occupations	\$29,720	\$40,269	Certificate/Some college	None	None	343	54	X			827	49
100	31-9099.00	31-9099	Healthcare Support Workers, All Other ³	Healthcare Support Occupations	\$22,960	\$39,520	High school diploma	None	None	581	50	X			71	15
101	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
102	51-9198.00	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
103	13-1071.00	13-1071	Human Resource Specialists	Business & Financial Operations Occupations	\$38,200	\$59,424	Bachelor's degree	None	None	2,079	127	X			3,559	365
104	43-4161.00	43-4161	Human Resources Assis., ex. Payroll & Timekp	Office & Administrative Support Occupations	\$29,590	\$39,955	Associate's degree	None	None	485	-12		X		1,325	289
105	17-3026.00	17-3026	Industrial Engineering Technicians	Architecture & Engineering Occupations	\$38,840	\$56,096	Associate's degree	None	None	275	2		X		1,689	260
106	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
107	49-9041.00	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
108	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
109	53-7051.00	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
110	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
111	15-1199.09	15-1199	Information Technology Project Managers**	Computer & Mathematical Occupations	\$45,130	\$84,573	Bachelor's degree	None	None	489	50		X		27,832	437
112	51-9061.00	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
113	49-9099.00	49-9099	Installation, Maintenance, and Repair Workers, All Other ³	Installation, Maintenance, & Repair Occupations	\$25,430	\$39,333	High school diploma	Moderate-term on-the-job training	None	592	33	X			2	2
114	43-9041.00	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
115	41-3021.00	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
116	43-4111.00	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
117	53-7062.00	53-7062	Laborers/Freight/Stock/Material Movers, 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
118	37-3011.00	37-3011	Landscaping 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		X	428	50
119	23-1011.00	23-1011	Lawyers	Legal Occupations	\$57,470	\$100,842	Doctoral/ Professional degree	None	None	862	22	X			1,697	151
120	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
121	43-4131.00	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
122	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
123	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
124	53-7063.00	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
125	51-4041.00	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
126	49-9071.00	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
127	49-9043.00	49-9043	Maintenance Workers, Machinery	Installation, Maintenance, & Repair Occupations	\$30,430	\$46,836	High school diploma	Long-term on-the-job training	None	278	14		X		7	4
128	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
129	11-9199.00	11-9199	Managers, All Other ³	Management Occupations	\$63,160	\$100,277	Bachelor's degree	None	Less than 5 years	1,896	169	X			1,621	192
130	17-2199.04	17-2199	Manufacturing Engineers**	Architecture & Engineering Occupations	\$52,550	\$91,478	Bachelor's degree	None	None	527	45		X		360	120
131	13-1161.00	13-1161	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
132	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
133	31-9011.00	31-9011	Massage Therapists	Healthcare Support Occupations	\$20,730	\$38,230	Certificate/Some college	None	None	450	85	X			67	11
134	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
135	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
136	29-2012.00	29-2012	Medical and Clinical Laboratory Technicians ⁴	Healthcare Practitioners & Technical Occupations	-	\$51,770	Associate's degree	None	None	464	60	X			2,811	79
137	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
138	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			13,146	163

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	Job Family	Projections			On-the-Job Training ²	Relevant Work Experience	Total Annual Openings	Growth	Methodology			OMJ	
					Starting Wage	Median Wage	Education Level ¹					Base	JobsOhio	2nd Tier	4-Year No. Postings	No. of Employers
140	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
141	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
142	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
143	43-6013.00	43-6013	Medical Secretaries	Office & Administrative Support Occupations	\$25,390	\$34,962	High school diploma	Moderate-term on-the-job training	None	5,278	654	X			9,304	109
144	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
145	21-1014.00	21-1014	Mental Health Counselors*	Community & Social Service Occupations	\$43,300	\$43,300	Master's degree	Internship/residency	None	700	112	X			218	29
146	49-9044.00	49-9044	Millwrights	Installation, Maintenance, & Repair Occupations	\$42,180	\$60,388	High school diploma	Apprenticeship	None	245	27		X		21	4
147	51-9023.00	51-9023	Mixing/Blending Machine Setters/Operators/Tenders	Production Occupations	\$26,640	\$38,394	High school diploma	Moderate-term on-the-job training	None	791	-38	X			340	43
148	51-4072.00	51-4072	Molding/Coremaking/Casting Mach. S/O/T, M/P	Production Occupations	\$23,730	\$30,759	High school diploma	Moderate-term on-the-job training	None	1,411	-236	X			233	47
149	51-4081.00	51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	Production Occupations	\$25,370	\$35,828	High school diploma	Moderate-term on-the-job training	None	1,427	-38	X			42	20
150	27-2042.00	27-2042	Musicians and Singers ³	Arts, Design, Entertainment, Sports, & Media Occupations	-	\$49,629	Less than high school	Long-term on-the-job training	None	629	11	X			10	6
151	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
152	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
153	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
154	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
155	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
156	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
157	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
158	43-9199.00	43-9199	Office and Administrative Support Workers, All Other ³	Office & Administrative Support Occupations	\$25,110	\$40,144	High school diploma	Short-term on-the-job training	None	690	64	X			-	-
159	43-9061.00	43-9061	Office Clerks, General	Office & Administrative Support Occupations	\$21,410	\$33,766	High school diploma	Short-term on-the-job training	None	10,498	-287	X			3,697	327
160	47-2073.00	47-2073	Operating Engineers & Other Con. Equip. Op.	Construction & Extraction Occupations	\$38,810	\$54,544	High school diploma	Moderate-term on-the-job training	None	1,780	87	X			97	23
161	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
162	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
163	29-2099.05	29-2099	Ophthalmic Medical Technologists**	Healthcare Practitioners & Technical Occupations	\$29,720	\$40,269	Certificate/ Some college	None	None	343	54			X	827	49
164	29-2081.00	29-2081	Opticians, Dispensing	Healthcare Practitioners & Technical Occupations	\$28,970	\$40,795	High school diploma	Long-term on-the-job training	None	263	37	X			39	11
165	43-4151.00	43-4151	Order Clerks	Office & Administrative Support Occupations	\$23,450	\$32,208	High school diploma	Short-term on-the-job training	None	1,073	-43	X			342	107
166	51-9111.00	51-9111	Packaging and Filling Machine Operators/Tenders	Production Occupations	\$22,760	\$32,016	High school diploma	Moderate-term on-the-job training	None	2,089	29	X			2,260	149
167	47-2141.00	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
168	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
169	41-2022.00	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
170	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
171	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
172	29-2052.00	29-2052	Pharmacy Technicians	Healthcare Practitioners & Technical Occupations	\$21,710	\$29,998	High school diploma	Moderate-term on-the-job training	None	1,516	184	X			5,221	98
173	31-9097.00	31-9097	Phlebotomists	Healthcare Support Occupations	\$26,500	\$35,311	Certificate/ Some college	None	None	722	112	X			1,968	47
174	31-2021.00	31-2021	Physical Therapist Assistants	Healthcare Support Occupations	\$45,850	\$60,676	Associate's degree	None	None	1,005	171	X			1,407	47
175	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
176	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
177	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
178	47-2152.00	47-2152	Plumbers, Pipefitters, and Steamfitters	Construction & Extraction Occupations	\$34,190	\$56,877	High school diploma	Apprenticeship	None	2,019	238	X			158	23
179	25-2011.00	25-2011	Preschool Teachers, Except Special Education	Education, Training, & Library Occupations	\$19,800	\$26,897	Associate's degree	None	None	1,572	228			X	167	12
180	51-5112.00	51-5112	Printing Press Operators and Job Printers	Production Occupations	\$24,490	\$36,818	High school diploma	Moderate-term on-the-job training	None	793	-102	X			277	66
181	51-9199.00	51-9199	Production Workers, All Other ³	Production Occupations	\$21,060	\$30,882	High school diploma	Moderate-term on-the-job training	None	2,168	78	X			15	3
182	43-5061.00	43-5061	Production, Planning, and Expediting Clerks	Office & Administrative Support Occupations	\$31,600	\$48,240	High school diploma	Moderate-term on-the-job training	None	1,485	45	X			2,499	354
183	11-9141.00	11-9141	Property, Real Estate & Community Assn Mgrs	Management Occupations	\$34,690	\$53,167	High school diploma	None	Less than 5 years	799	94	X			789	79
184	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
185	13-1023.00	13-1023	Purchasing Agents, ex. Whole., Retail, & Farm ⁴	Business & Financial Operations Occupations	\$78,330	\$62,120	Bachelor's degree	Moderate-term on-the-job training	None	1,013	-75	X			3,248	385
186	11-3061.00	11-3061	Purchasing Managers	Management Occupations	\$78,330	\$120,041	Bachelor's degree	None	5 years or more	220	16			X	3,182	283
187	29-2099.06	29-2099	Radiologic Technicians**	Healthcare Practitioners & Technical Occupations	\$29,720	\$40,269	Certificate/ Some college	None	None	343	54			X	827	49
188	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
189	41-9022.00	41-9022	Real Estate Sales Agents	Sales & Related Occupations	\$23,450	\$36,365	High school diploma	Moderate-term on-the-job training	None	1,581	137	X			164	31
190	43-4171.00	43-4171	Receptionists and Information Clerks	Office & Administrative Support Occupations	\$20,170	\$27,473	High school diploma	Short-term on-the-job training	None	3,394	12			X	2,107	188
191	53-7081.00	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
192	29-1141.00	29-1141	Registered Nurses	Healthcare Practitioners & Technical Occupations	\$52,780	\$65,707	Bachelor's degree	None	None	8,848	1839	X			38,406	175
193	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
194	39-9041.00	39-9041	Residential Advisors	Personal Care & Service Occupations	\$21,420	\$28,274	High school diploma	Short-term on-the-job training	None	616	62			X	3	3
195	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
196	17-2199.08	17-2199	Robotics Engineers**	Architecture & Engineering Occupations	\$52,550	\$91,478	Bachelor's degree	None	None	527	45			X	360	120
197	47-2181.00	47-2181	Roofers	Construction & Extraction Occupations	\$27,840	\$39,875	Less than high school	Moderate-term on-the-job training	None	644	60	X			-	-
198	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
199	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
200	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
201	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
202	41-3099.00	41-3099	Sales Representatives, Services, All Other ³	Sales & Related Occupations	\$27,850	\$52,437	High school diploma	Moderate-term on-the-job training	None	4,263	181	X			10	5
203	15-1199.10	15-1199	Search Marketing Strategists**	Computer & Mathematical Occupations	\$45,130	\$84,573	Bachelor's degree	None	None	489	50			X	27,832	437
204	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
205	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
206	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	2,316	104
207	25-3021.00	25-3021	Self-Enrichment Education Teachers	Education, Training, & Library Occupations	\$21,960	\$35,647	High school diploma	None	Less than 5 years	1,371	158	X			33	9
208	43-5071.00	43-5071	Shipping, Re													

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	Job Family	Projections			On-the-Job Training ²	Relevant Work Experience	Total Annual Openings	Growth	Methodology			OMJ	
					Starting Wage	Median Wage	Education Level ¹					Base	JobsOhio	2nd Tier	4-Year No. Postings	No. of Employers
210	21-1093.00	21-1093	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
211	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
212	15-1133.00	15-1133	Software Developers, Systems Software	Computer & Mathematical Occupations	\$68,820	\$101,149	Bachelor's degree	None	None	378	9		X		1,314	127
213	15-1199.01	15-1199	Software Quality Assurance Engineers and Testers* ³	Computer & Mathematical Occupations	\$45,130	\$84,573	Bachelor's degree	None	None	489	50			X	27,832	437
214	17-2199.11	17-2199	Solar Energy Systems Engineers* ³	Architecture & Engineering Occupations	\$52,550	\$91,478	Bachelor's degree	None	None	527	45			X	360	120
215	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
216	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			-	-
217	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
218	29-2055.00	29-2055	Surgical Technologists	Healthcare Practitioners & Technical Occupations	\$32,090	\$46,987	Certificate/Some college	None	None	363	36	X			2,303	58
219	51-2092.00	51-2092	Team Assemblers ⁴	Production Occupations	-	\$30,690	High school diploma	Moderate-term on-the-job training	None	4,125	-444	X			391	71
220	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
221	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	12,074	67
222	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
223	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
224	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
225	53-3032.00	53-3032	Truck Drivers, Heavy and Tractor-Trailer	Transportation & Material Moving Occupations	\$31,310	\$44,717	Certificate/Some college	Short-term on-the-job training	None	8,465	301	X			12,921	177
226	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
227	15-1134.00	15-1134	Web Developers	Computer & Mathematical Occupations	\$36,100	\$63,608	Associate's degree	None	-	294	23		X		8,011	277
228	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
229	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



Methodology Total		175	16	38	223
In-Demand Occupations Total		229	229	229	229
Percent		76.42%	6.99%	16.59%	97.38%

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

¹Typical education level needed to enter the occupation, using the US Bureau of Labor Statistics (BLS) education and training classification system

²Typical on-the-job training needed to attain competency in the occupation (<https://www.bls.gov/emp/documentation/education/tech.htm>)

³Wage was calculated by multiplying the hourly wage by 2,080 to approximate an annual wage