



BUSINESS ENGAGEMENT 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

Architecture and Engineering Occupations														
Projections										Methodology			OMJ	
Ref. No.	Ext. SOC	Occupation Title - 16	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
1	17-2011.00	Aerospace Engineers	\$79,350	\$112,970	Bachelor's degree	None	None	330	30			X	705	65
2	17-2041.00	Chemical Engineers	\$59,970	\$96,196	Bachelor's degree	None	None	102	9		X	X	337	59
3	17-2051.00	Civil Engineers	\$53,870	\$80,219	Bachelor's degree	None	None	653	61	X			846	80
4	17-3023.00	Electrical and Electronic Engineering Technicians	\$39,150	\$62,984	Associate's degree	None	None	203	-3		X		1,328	204
5	17-2071.00	Electrical Engineers	\$56,130	\$85,756	Bachelor's degree	None	None	446	41	X			4,151	230
6	17-3024.00	Electro-Mechanical Technicians	\$39,800	\$57,550	Associate's degree	None	None	35	0			X	88	40
7	17-2072.00	Electronics Engineers, Except Computer Engineers, All Other ³	\$59,560	\$97,936	Bachelor's degree	None	None	258	17			X	578	115
8	17-2199.00	Engineers, All Other ³	\$52,550	\$91,478	Bachelor's degree	None	None	527	45	X			360	120
9	17-2111.00	Health & Safety Engineers, ex. Mining Safety	\$63,010	\$90,034	Bachelor's degree	None	None	36	2			X	1,883	279
10	17-3026.00	Industrial Engineering Technicians	\$38,840	\$56,096	Associate's degree	None	None	275	2			X	1,689	260
11	17-2112.00	Industrial Engineers	\$58,460	\$82,573	Bachelor's degree	None	None	1,102	126	X			18,379	555
12	17-2199.04	Manufacturing Engineers ³	\$52,550	\$91,478	Bachelor's degree	None	None	527	45			X	360	120
13	17-3027.00	Mechanical Engineering Technicians	\$40,570	\$55,185	Associate's degree	None	None	218	16		X		145	49
14	17-2141.00	Mechanical Engineers	\$56,120	\$79,268	Bachelor's degree	None	None	1,165	181	X			4,355	275
15	17-2199.08	Robotics Engineers ³	\$52,550	\$91,478	Bachelor's degree	None	None	527	45			X	360	120
16	17-2199.11	Solar Energy Systems Engineers ³	\$52,550	\$91,478	Bachelor's degree	None	None	527	45			X	360	120
Totals								6,931	662	5	4	7	35,924	2,691

Arts, Design, Entertainment, Sports, and Media Occupations														
Projections										Methodology			OMJ	
Ref. No.	Ext. SOC	Occupation Title - 4	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
17	27-4011.00	Audio and Video Equipment Technicians	\$21,960	\$38,134	Certificate/Some college	Short-term on-the-job training	None	137	12			X	82	42
18	27-1024.00	Graphic Designers	\$30,260	\$47,837	Bachelor's degree	None	None	837	26	X			1,062	190
19	27-2042.00	Musicians and Singers ¹	\$25,084	\$49,629	Less than high school	Long-term on-the-job training	None	629	11	X			10	6
20	27-3031.00	Public Relations Specialists	\$36,870	\$60,272	Bachelor's degree	None	None	764	50	X			2,573	272
Totals								2,367	99	3		1	3,727	510

Building, Grounds Cleaning and Maintenance Occupations														
Projections										Methodology			OMJ	
Ref. No.	Ext. SOC	Occupation Title - 3	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
21	37-1011.00	FL Sup/Mgrs of Housekeeping & Janitorial Workers	\$28,310	\$42,463	High school diploma	None	Less than 5 years	843	50	X			404	53
22	37-1012.00	FL Sup/Mgrs of Lndscap./Lawn Ser/Groundskp	\$31,960	\$46,612	High school diploma	None	Less than 5 years	673	53	X			144	8
23	37-3011.00	Landscaping and Groundskeeping Workers	\$20,250	\$28,670	Less than high school	Short-term on-the-job training	None	5,908	333			X	428	50
Totals								7,424	436	2		1	976	111

Business and Financial Operations Occupations														
Projections										Methodology			OMJ	
Ref. No.	Ext. SOC	Occupation Title - 21	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
24	13-2011.00	Accountants and Auditors	\$45,290	\$66,412	Bachelor's degree	None	None	4,493	253	X			14,176	570
25	13-2021.00	Appraisers and Assessors of Real Estate	\$29,300	\$57,924	Bachelor's degree	Long-term on-the-job training	None	198	41	X			121	15
26	13-1199.00	Business Operations Specialists, All Other ³	\$40,610	\$67,746	Bachelor's degree	None	None	3,401	250	X			592	76
27	13-1031.00	Claims Adjusters, Examiners, and Investigators	\$41,980	\$66,792	High school diploma	Long-term on-the-job training	None	881	-27	X			2,692	82
28	13-1141.00	Compensation, Benefits, and Job Analysis Specialists	\$39,280	\$60,051	Bachelor's degree	None	Less than 5 years	314	45	X			1,330	176
29	13-1041.00	Compl. Off., ex. Agric. Con, Hlth/Safety, & Trans.	\$38,850	\$63,699	Bachelor's degree	Moderate-term on-the-job training	None	645	54	X			740	165
30	13-1051.00	Cost Estimators	\$39,580	\$62,312	Bachelor's degree	Moderate-term on-the-job training	None	1,211	93	X			253	63
31	13-1199.01	Energy Auditors ³	\$40,610	\$67,746	Bachelor's degree	None	None	3,401	250			X	592	76
32	13-2051.00	Financial Analysts	\$51,430	\$73,903	Bachelor's degree	None	None	914	108	X			5,245	268
33	13-2061.00	Financial Examiners	\$49,370	\$74,139	Bachelor's degree	Long-term on-the-job training	None	317	46	X			1,117	65
34	13-2099.01	Financial Quantitative Analysts ³	\$49,110	\$77,750	Bachelor's degree	Moderate-term on-the-job training	None	567	64			X	125	33
35	13-2099.00	Financial Specialists, All Other ³	\$49,110	\$77,750	Bachelor's degree	Moderate-term on-the-job training	None	567	64	X			125	33
36	13-1131.00	Fundraisers	\$31,710	\$55,458	Bachelor's degree	None	None	521	39	X			55	20
37	13-1071.00	Human Resource Specialists	\$38,200	\$59,424	Bachelor's degree	None	None	2,079	127	X			3,559	365
38	13-2072.00	Loan Officers	\$37,250	\$66,556	Bachelor's degree	Moderate-term on-the-job training	None	1,158	123	X			8,095	70
39	13-1081.00	Logisticians	\$50,900	\$74,519	Bachelor's degree	None	None	614	33	X			2,242	239
40	13-1111.00	Management Analysts	\$46,500	\$79,873	Bachelor's degree	None	Less than 5 years	2,219	291	X			16,941	367
41	13-1161.00	Market Research Analysts and Marketing Specialists	\$38,110	\$61,593	Bachelor's degree	None	None	2,766	434	X			8,314	366
42	13-2052.00	Personal Financial Advisors	\$43,300	\$76,441	Bachelor's degree	Long-term on-the-job training	None	780	164	X			1,690	45
43	13-1023.00	Purchasing Agents, ex. Wholesale, Retail, & Farm ⁴	-	\$62,120	Bachelor's degree	Moderate-term on-the-job training	None	1,013	-75	X			3,248	385
44	13-1151.00	Training and Development Specialists	\$34,990	\$57,976	Bachelor's degree	None	Less than 5 years	1,007	83	X			3,662	338
Totals								29,066	2,460	19	0	2	74,914	3,817

Community and Social Service Occupations														
Ref. No.	Ext. SOC	Occupation Title - 8	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
45	21-1023.00	Child, Family, and School Social Workers	\$31,100	\$43,723	Bachelor's degree	None	None	1,222	167	X			198	35
46	21-2011.00	Clergy	\$29,320	\$46,025	Bachelor's degree	Moderate-term on-the-job training	None	2,168	77	X			186	22
47	21-1022.00	Medical and Public Health Social Workers	\$38,520	\$54,786	Master's degree	Internship/residency	None	1,174	153	X			2,443	69
48	21-1023.00	Mental Health and Substance Abuse Social Workers	\$30,400	\$41,184	Master's degree	Internship/residency	None	641	84	X			2,742	65
49	21-1014.00	Mental Health Counselors ⁴	-	\$43,300	Master's degree	Internship/residency	None	700	112	X			218	29
50	21-1015.00	Rehabilitation Counselors	\$24,240	\$35,289	Master's degree	None	None	618	79	X			25	14
51	21-1093.00	Social and Human Service Assistants	\$22,840	\$33,099	High school diploma	Short-term on-the-job training	None	2,233	215	X			5,201	114
52	21-1011.00	Substance Abuse & Behavioral Dis. Counselors ⁴	-	\$43,300	Bachelor's degree	None	None	395	51	X			201	31
							Totals	9,151	938	8	0	0	11,214	379

Computer and Mathematical Occupations														
Ref. No.	Ext. SOC	Occupation Title - 19	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
53	15-2011.00	Actuaries	\$62,670	\$96,206	Bachelor's degree	Long-term on-the-job training	None	99	25		X		2,038	23
54	15-1199.08	Business Intelligence Analysts* ³	\$45,130	\$84,573	Bachelor's degree	None	None	489	50			X	27,832	437
55	15-1143.00	Computer Network Architects	\$62,560	\$98,795	Bachelor's degree	None	5 years or more	339	-7		X		1,295	140
56	15-1152.00	Computer Network Support Specialists	\$38,350	\$58,747	Associate's degree	None	None	776	45	X			206	48
57	15-1199.00	Computer Occupations, All Other ³	\$45,130	\$84,573	Bachelor's degree	None	None	489	50	X			27,832	437
58	15-1131.00	Computer Programmers	\$43,610	\$74,488	Bachelor's degree	None	None	241	-93		X		4,524	281
59	15-1121.00	Computer Systems Analysts	\$60,630	\$86,074	Bachelor's degree	None	None	1,867	42	X			15,531	434
60	15-1199.02	Computer Systems Engineers/Architects* ³	\$45,130	\$84,573	Bachelor's degree	None	None	489	50			X	27,832	437
61	15-1151.00	Computer User Support Specialists	\$31,180	\$48,246	Certificate/Some college	None	None	1,440	70	X			13,387	567
62	15-1141.00	Database Administrators	\$52,810	\$92,092	Bachelor's degree	None	None	309	28		X		2,653	193
63	15-1122.00	Information Security Analysts	\$59,300	\$91,467	Bachelor's degree	None	Less than 5 years	292	75	X			5,055	189
64	15-1199.09	Information Technology Project Managers* ³	\$45,130	\$84,573	Bachelor's degree	None	None	489	50			X	27,832	437
65	15-1142.00	Network and Comp. Systems Architects and Admins	\$51,350	\$76,954	Bachelor's degree	None	None	861	4	X			9,202	423
66	15-2031.00	Operations Research Analysts	\$55,870	\$81,437	Bachelor's degree	None	None	346	94	X			3,959	290
67	15-1199.10	Search Marketing Strategists* ³	\$45,130	\$84,573	Bachelor's degree	None	None	489	50			X	27,832	437
68	15-1132.00	Software Developers, Applications	\$58,530	\$93,422	Bachelor's degree	None	None	3,011	615	X			16,015	338
69	15-1133.00	Software Developers, Systems Software	\$68,820	\$101,149	Bachelor's degree	None	None	378	9		X		1,314	127
70	15-1199.01	Software Quality Assurance Engineers and Testers* ²	\$45,130	\$84,573	Bachelor's degree	None	None	489	50			X	27,832	437
71	15-1134.00	Web Developers	\$36,100	\$63,608	Associate's degree	None	-	294	23		X		8,011	277
							Totals	13,187	1,230	8	6	5	250,182	5,952

Construction and Extraction Occupations														
Ref. No.	Ext. SOC	Occupation Title - 12	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
72	47-2021.00	Brickmasons and Blockmasons	\$38,780	\$56,939	High school diploma	Apprenticeship	None	398	39	X			6	2
73	47-2031.00	Carpenters	\$31,690	\$47,533	High school diploma	Apprenticeship	None	2,805	191	X			47	22
74	47-2051.00	Cement Masons and Concrete Finishers	\$31,350	\$47,574	Less than high school	Moderate-term on-the-job training	None	579	52	X			-	-
75	47-2061.00	Construction Laborers	\$27,040	\$41,088	Less than high school	Short-term on-the-job training	None	5,142	392	X			310	46
76	47-2111.00	Electricians	\$31,870	\$53,629	High school diploma	Apprenticeship	None	2,983	198	X			832	138
77	47-1011.00	First-Line Sup/Mgrs of Con. Trades/Extract. Work	\$43,180	\$66,489	High school diploma	None	5 years or more	1,748	152	X			462	121
78	47-2121.00	Glaziers	\$30,360	\$43,904	High school diploma	Apprenticeship	None	183	12			X	-	-
79	47-2073.00	Operating Engineers & Other Con. Equip. Op.	\$38,810	\$54,544	High school diploma	Moderate-term on-the-job training	None	1,780	87	X			97	23
80	47-2141.00	Painters, Construction and Maintenance	\$27,740	\$41,396	Less than high school	Moderate-term on-the-job training	None	848	41	X			49	32
81	47-2152.00	Plumbers, Pipefitters, and Steamfitters	\$34,190	\$56,877	High school diploma	Apprenticeship	None	2,019	238	X			158	23
82	47-2181.00	Roofers	\$27,840	\$39,875	Less than high school	Moderate-term on-the-job training	None	644	60	X			-	-
83	47-2221.00	Structural Iron and Steel Workers	\$44,950	\$62,048	High school diploma	Apprenticeship	None	383	38	X			-	-
							Totals	19,512	1,500	11		1	1,961	407

Education, Training, and Library Occupations														
Ref. No.	Ext. SOC	Occupation Title - 2	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
84	25-2011.00	Preschool Teachers, Except Special Education	\$19,800	\$26,897	Associate's degree	None	None	1,572	228			X	167	12
85	25-3021.00	Self-Enrichment Education Teachers	\$21,960	\$35,647	High school diploma	None	Less than 5 years	1,371	158	X			33	9
							Totals	2,943	386	1		1	200	21

Food Preparation and Serving Related Occupations														
Ref. No.	Ext. SOC	Occupation Title - 3	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
86	35-1011.00	Chefs and Head Cooks	\$23,050	\$41,983	High school diploma	None	5 years or more	601	29	X			140	20
87	35-2012.00	Cooks, Institution and Cafeteria	\$20,350	\$27,398	Less than high school	Short-term on-the-job training	None	2,591	72			X	1,579	49
88	35-1012.00	FL Sup/Mgrs of Food Prep. & Serving Workers	\$22,520	\$31,276	High school diploma	None	Less than 5 years	5,036	51	X			6,915	104
							Totals	8,228	152	2	0	1	8,634	173

Healthcare Practitioners and Technical Occupations															
Ref. No.	Ext. SOC	Occupation Title - 25	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	
89	29-2021.00	Dental Hygienists	\$54,320	\$70,763	Associate's degree	None	None	578	89	X			123	13	
90	29-1021.00	Dentists, General	\$94,910	\$192,811	Doctoral/ Professional degree	None	None	158	48	X			56	6	
91	29-2032.00	Diagnostic Medical Sonographers	\$52,100	\$65,922	Associate's degree	None	None	165	43	X			1,423	56	
92	29-2041.00	Emergency Medical Technicians and Paramedics	\$22,010	\$30,909	Certificate/ Some college	None	None	818	130	X			1,500	44	
93	29-2099.00	Health Technologists and Technicians, All Other ³	\$29,720	\$40,269	Certificate/ Some college	None	None	343	54	X			827	49	
94	29-2061.00	Licensed Practical and Licensed Vocational Nurses	\$34,220	\$44,285	Certificate/ Some college	None	None	3,334	382	X			7,897	87	
95	29-2012.00	Medical and Clinical Laboratory Technicians ⁴	-	\$51,770	Associate's degree	None	None	464	60	X			2,811	79	
96	29-2011.00	Medical and Clinical Laboratory Technologists ⁴	-	\$51,770	Bachelor's degree	None	None	504	66	X			2,637	77	
97	29-2071.00	Medical Records and Health Information Technicians	\$28,530	\$40,754	Certificate/ Some college	None	None	718	127	X			5,718	125	
98	29-1171.00	Nurse Practitioners	\$86,580	\$103,380	Master's degree	None	None	574	201	X			1,324	68	
99	29-1122.00	Occupational Therapists	\$62,350	\$86,299	Master's degree	None	None	367	104	X			2,717	55	
100	29-2057.00	Ophthalmic Medical Technicians	\$27,060	\$37,275	Certificate/ Some college	None	None	156	18			X	56	10	
101	29-2099.05	Ophthalmic Medical Technologists ^{4,3}	\$29,720	\$40,269	Certificate/ Some college	None	None	343	54			X	827	49	
102	29-2081.00	Opticians, Dispensing	\$28,970	\$40,795	High school diploma	Long-term on-the-job training	None	263	37	X			39	11	
103	29-1051.00	Pharmacists	\$82,460	\$124,628	Doctoral/ Professional degree	None	None	628	72	X			6,727	78	
104	29-2052.00	Pharmacy Technicians	\$21,710	\$29,998	High school diploma	Moderate-term on-the-job training	None	1,516	184	X			5,221	98	
105	29-1123.00	Physical Therapists	\$65,800	\$89,011	Doctoral/ Professional degree	None	None	537	175	X			3,627	69	
106	29-1071.00	Physician Assistants	\$78,810	\$108,426	Master's degree	None	None	294	99	X			1,384	71	
107	29-1069.00	Physicians and Surgeons, All Other ⁴	\$91,560	\$206,920	Doctoral/ Professional degree	Internship/residency	None	534	117	X			457	58	
108	29-2099.06	Radiologic Technicians ³	\$29,720	\$40,269	Certificate/ Some college	None	None	343	54			X	827	49	
109	29-2034.00	Radiologic Technologists	\$43,220	\$57,795	Associate's degree	None	None	552	81	X			3,641	67	
110	29-1141.00	Registered Nurses	\$52,780	\$65,707	Bachelor's degree	None	None	8,848	1839	X			38,406	175	
111	29-1126.00	Respiratory Therapists	\$44,680	\$57,754	Associate's degree	None	None	504	164	X			2,593	55	
112	29-1127.00	Speech-Language Pathologists	\$50,080	\$76,136	Master's degree	Internship/residency	None	375	90	X			1,728	46	
113	29-2055.00	Surgical Technologists	\$32,090	\$46,987	Certificate/ Some college	None	None	363	36	X			2,303	58	
								Totals	23,279	4,324	22	0	3	94,869	1,553

Healthcare Support Occupations															
Ref. No.	Ext. SOC	Occupation Title - 8	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	
114	31-9091.00	Dental Assistants	\$27,730	\$38,532	Certificate/ Some college	None	None	1,326	117	X			347	14	
115	31-9099.00	Healthcare Support Workers, All Other ³	\$22,960	\$39,520	High school diploma	None	None	581	50	X			71	15	
116	31-9011.00	Massage Therapists	\$20,730	\$38,230	Certificate/ Some college	None	None	450	85	X			67	11	
117	31-9092.00	Medical Assistants	\$25,160	\$33,028	Certificate/ Some college	None	None	3,146	464	X			13,477	107	
118	31-1014.00	Nursing Assistants	\$22,010	\$28,190	Certificate/ Some college	None	None	8,184	358			X	12,848	76	
119	31-2011.00	Occupational Therapist Assistants	\$47,770	\$61,583	Associate's degree	None	None	576	95	X			1,116	45	
120	31-9097.00	Phlebotomists	\$26,500	\$35,311	Certificate/ Some college	None	None	722	112	X			1,968	47	
121	31-2021.00	Physical Therapist Assistants	\$45,850	\$60,676	Associate's degree	None	None	1,005	171	X			1,407	47	
								Totals	15,990	1,452	7	0	1	31,301	362

Installation, Maintenance, and Repair Occupations															
Ref. No.	Ext. SOC	Occupation Title - 13	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	
122	49-3011.00	Aircraft Mechanics and Service Technicians	\$38,820	\$61,073	Certificate/ Some college	None	None	372	44	X			153	27	
123	49-3021.00	Automotive Body and Related Repairers	\$28,780	\$39,487	High school diploma	Long-term on-the-job training	None	646	26	X			157	16	
124	49-3023.00	Automotive Service Technicians and Mechanics	\$23,620	\$38,515	Certificate/ Some college	Short-term on-the-job training	None	2,655	35	X			1,757	74	
125	49-3031.00	Bus & Truck Mechanics & Diesel Engine Spec.	\$32,200	\$47,430	High school diploma	Long-term on-the-job training	None	1,186	70	X			3,032	123	
126	49-2094.00	Electrical/Electronics Repair, Comm/Indus Equip.	\$39,990	\$59,098	Certificate/ Some college	Long-term on-the-job training	None	200	0			X	298	62	
127	49-1011.00	FL Sup/Mgrs of Mechanics/Installers/Repairers	\$41,110	\$64,666	High school diploma	None	Less than 5 years	1,499	66	X			4,991	446	
128	49-9021.00	Heating, AC, & Refrigeration Mechanics/Installers	\$30,970	\$47,972	Certificate/ Some college	Long-term on-the-job training	None	1,377	177	X			194	61	
129	49-9041.00	Industrial Machinery Mechanics	\$35,520	\$52,865	High school diploma	Long-term on-the-job training	None	1,861	137	X			1,469	257	
130	49-9099.00	Installation, Maintenance, and Repair Workers, All Other ³	\$25,430	\$39,333	High school diploma	Moderate-term on-the-job training	None	592	33	X			2	2	
131	49-9071.00	Maintenance and Repair Workers, General	\$27,040	\$40,767	High school diploma	Moderate-term on-the-job training	None	5,895	320	X			8,047	604	
132	49-9043.00	Maintenance Workers, Machinery	\$30,430	\$46,836	High school diploma	Long-term on-the-job training	None	278	14			X	7	4	
133	49-9044.00	Millwrights	\$42,180	\$60,388	High school diploma	Apprenticeship	None	245	27			X	21	4	
134	49-2022.00	Telecomm. Equip. Install/Repair, ex. Line Install	\$33,680	\$52,394	Certificate/ Some college	Moderate-term on-the-job training	None	856	-62	X			270	36	
								Totals	17,662	887	10	2	1	20,398	1,716

Legal Occupations															
Ref. No.	Ext. SOC	Occupation Title - 2	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	
135	23-1011.00	Lawyers	\$57,470	\$100,842	Doctoral/ Professional degree	None	None	862	22	X			1,697	151	
136	23-2011.00	Paralegals and Legal Assistants	\$31,400	\$46,384	Associate's degree	None	None	872	45	X			489	115	
								Totals	1,734	67	2	0	0	2,186	266

Life, Physical, and Social Science Occupations															
Ref. No.	Ext. SOC	Occupation Title - 4	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	
137	19-2031.00	Chemists	\$46,780	\$69,084	Bachelor's degree	None	None	390	20		X		880	77	
138	19-3031.00	Clinical, Counseling, and School Psychologists	\$45,750	\$74,641	Doctoral/ Professional degree	Internship/residency	None	326	54	X			254	18	
139	19-4091.00	Environ. Science & Protection Tech., inc. Health	\$28,590	\$45,278	Associate's degree	None	None	203	15			X	960	130	
140	19-1042.00	Medical Scientists, Except Epidemiologists	\$49,060	\$69,442	Doctoral/ Professional degree	None	None	426	52	X			3,870	70	
								Totals	1,345	141	2	1	1	5,964	295

Management Occupations															
Ref. No.	Ext. SOC	Occupation Title - 19	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	
141	11-3011.00	Administrative Services Managers	\$58,950	\$87,292	Bachelor's degree	None	Less than 5 years	884	72	X			248	99	
142	11-9041.00	Architectural and Engineering Managers	\$93,980	\$132,125	Bachelor's degree	None	5 years or more	503	40	X			1,341	241	
143	11-3021.00	Computer and Information Systems Managers	\$84,570	\$128,189	Bachelor's degree	None	5 years or more	1,058	62	X			7,432	286	
144	11-9021.00	Construction Managers	\$63,620	\$93,643	Bachelor's degree	Moderate-term on-the-job training	None	1,204	134	X			682	107	
145	11-9031.00	Education Admin., Pre & Child Care Center/Prog.	\$29,950	\$45,151	Bachelor's degree	None	Less than 5 years	258	46	X			16	11	
146	11-9013.00	Farmers, Ranchers, and Other Agricultural Managers	\$51,380	\$74,057	High school diploma	None	5 years or more	5,852	-28	X			24	5	
147	11-3031.00	Financial Managers	\$73,450	\$121,356	Bachelor's degree	None	5 years or more	2,052	362	X			14,142	395	
148	11-9051.00	Food Service Managers	\$32,630	\$52,005	High school diploma	None	Less than 5 years	1,266	36	X			1,169	53	
149	11-1021.00	General and Operations Managers	\$50,180	\$98,760	Bachelor's degree	None	5 years or more	5,791	360	X			9,309	430	
150	11-3051.00	Industrial Production Managers	\$64,770	\$102,510	Bachelor's degree	None	5 years or more	738	-13	X			1,133	239	
151	11-9199.00	Managers, All Other ³	\$63,160	\$100,277	Bachelor's degree	None	Less than 5 years	1,896	169	X			1,621	192	
152	11-2021.00	Marketing Managers	\$76,580	\$125,610	Bachelor's degree	None	5 years or more	532	44	X			14,429	478	
153	11-9111.00	Medical and Health Services Managers	\$65,100	\$93,817	Bachelor's degree	None	Less than 5 years	1,570	253	X			13,146	163	
154	11-9121.00	Natural Sciences Managers	\$81,150	\$124,048	Bachelor's degree	None	5 years or more	113	16			X	1,764	78	
155	11-9141.00	Property, Real Estate & Community Assn Mgrs	\$34,690	\$53,167	High school diploma	None	Less than 5 years	799	94	X			789	79	
156	11-3061.00	Purchasing Managers	\$78,330	\$120,041	Bachelor's degree	None	5 years or more	220	16			X	3,182	283	
157	11-2022.00	Sales Managers	\$74,180	\$124,459	Bachelor's degree	None	Less than 5 years	1,072	52	X			7,183	385	
158	11-9151.00	Social and Community Service Managers	\$47,010	\$69,875	Bachelor's degree	None	Less than 5 years	505	80	X			498	67	
159	11-3071.00	Transportation, Storage, and Distribution Managers	\$60,350	\$91,577	High school diploma	None	5 years or more	460	41	X			1,414	259	
								Totals	26,773	1,836	17	0	2	79,522	3,850

Office and Administrative Support Occupations														
Ref. No.	Ext. SOC	Occupation Title - 20	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
160	43-3011.00	Bill and Account Collectors	\$25,710	\$35,437	High school diploma	Moderate-term on-the-job training	None	1,356	-42	X			2,785	200
161	43-3021.00	Billing and Posting Clerks and Machine Operators	\$28,280	\$37,810	High school diploma	Moderate-term on-the-job training	None	2,475	240	X			1,234	108
162	43-3031.00	Bookkeeping, Accounting, and Auditing Clerks	\$26,750	\$39,687	Certificate/Some college	Moderate-term on-the-job training	None	6,928	-233	X			3,916	454
163	43-4051.00	Customer Service Representatives	\$23,680	\$34,715	High school diploma	Short-term on-the-job training	None	11,757	218	X			23,162	553
164	43-5032.00	Dispatchers, Except Police, Fire, and Ambulance	\$25,410	\$42,297	High school diploma	Moderate-term on-the-job training	None	644	-18	X			420	75
165	43-6011.00	Executive Secretaries and Administrative Assistants	\$39,700	\$57,916	High school diploma	None	Less than 5 years	1,659	-425	X			6,137	457
166	43-1011.00	First-Line Sup/Mgrs of Office & Admin. Support	\$37,200	\$55,636	High school diploma	None	Less than 5 years	4,529	64	X			17,943	576
167	43-4161.00	Human Resources Assis., ex. Payroll & Timekp	\$29,590	\$39,955	Associate's degree	None	None	485	-12			X	1,325	289
168	43-9041.00	Insurance Claims and Policy Processing Clerks	\$28,290	\$39,543	High school diploma	Moderate-term on-the-job training	None	2,304	201	X			439	49
169	43-4111.00	Interviewers, Except Eligibility and Loan	\$25,220	\$32,383	High school diploma	Short-term on-the-job training	None	1,060	16	X			2,248	85
170	43-4131.00	Loan Interviewers and Clerks	\$25,560	\$38,769	High school diploma	Short-term on-the-job training	None	1,257	130	X			947	58
171	43-6013.00	Medical Secretaries	\$25,390	\$34,962	High school diploma	Moderate-term on-the-job training	None	5,278	654	X			9,304	109
172	43-9199.00	Office and Administrative Support Workers, All Other ³	\$25,110	\$40,144	High school diploma	Short-term on-the-job training	None	690	64	X			-	-
173	43-9061.00	Office Clerks, General	\$21,410	\$33,766	High school diploma	Short-term on-the-job training	None	10,498	-287	X			3,697	327
174	43-4151.00	Order Clerks	\$23,450	\$32,208	High school diploma	Short-term on-the-job training	None	1,073	-43	X			342	107
175	43-5061.00	Production, Planning, and Expediting Clerks	\$31,600	\$48,240	High school diploma	Moderate-term on-the-job training	None	1,485	45	X			2,499	354
176	43-4171.00	Receptionists and Information Clerks	\$20,170	\$27,473	High school diploma	Short-term on-the-job training	None	3,394	12			X	2,107	188
177	43-6014.00	Secretaries, Except Legal, Medical, and Executive	\$24,260	\$36,675	High school diploma	Short-term on-the-job training	None	7,758	-729	X			2,054	322
178	43-5071.00	Shipping, Receiving, and Traffic Clerks	\$24,210	\$33,642	High school diploma	Short-term on-the-job training	None	3,323	-35	X			1,864	237
179	43-3071.00	Tellers	\$21,970	\$29,237	High school diploma	Short-term on-the-job training	None	1,939	-186			X	12,074	67
								Totals	69,892	-366	17	3	94,497	4,615

Personal Care & Services Occupations															
Ref. No.	Ext. SOC	Occupation Title - 2	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	
180	39-1021.00	First-Line Sup/Mgrs of Personal Serv. Workers	\$24,590	\$36,708	High school diploma	None	Less than 5 years	911	101	X			160	16	
181	39-9041.00	Residential Advisors	\$21,420	\$28,274	High school diploma	Short-term on-the-job training	None	616	62			X	3	3	
								Totals	1,527	163	1	0	1	163	19

Production Occupations														
Ref. No.	Ext. SOC	Occupation Title - 28	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
182	51-2099.00	Assemblers and Fabricators, All Other ⁴	-	\$30,690	High school diploma	Moderate-term on-the-job training	None	2,726	-504	X			-	-
183	51-3011.00	Bakers	\$20,620	\$26,513	Less than high school	Long-term on-the-job training	None	906	14			X	8	6
184	51-3021.00	Butchers and Meat Cutters	\$24,900	\$36,230	Less than high school	Long-term on-the-job training	None	640	23	X			106	7
185	51-7011.00	Cabinetmakers and Bench Carpenters	\$25,040	\$36,241	High school diploma	Moderate-term on-the-job training	None	511	17			X	6	4
186	51-9011.00	Chemical Equipment Operators/Tenders	\$30,460	\$48,853	High school diploma	Moderate-term on-the-job training	None	554	-28			X	7	5
187	51-8091.00	Chemical Plant and System Operators	\$41,410	\$63,434	High school diploma	Moderate-term on-the-job training	None	224	-23			X	172	39
188	51-9121.00	Coating/Painting/Spraying Machine Setters, O/T	\$26,020	\$36,354	High school diploma	Moderate-term on-the-job training	None	675	-7	X			127	26
189	51-4011.00	Computer-Controlled Machine Tool Oper., M/P	\$30,010	\$41,630	High school diploma	Moderate-term on-the-job training	None	1,325	13	X			819	119
190	51-4031.00	Cutting/Punching/Press Machine S/O/T, M/P	\$24,690	\$34,953	High school diploma	Moderate-term on-the-job training	None	1,773	-128	X			239	54
191	51-2022.00	Electrical and Electronic Equipment Assemblers ⁴	-	\$32,530	High school diploma	Moderate-term on-the-job training	None	847	-191	X			727	80
192	51-9041.00	Extrud/Form/Pressing/Compacting Mach. S/O/T	\$25,640	\$33,582	High school diploma	Moderate-term on-the-job training	None	723	-69	X			17	13
193	51-1011.00	FL Sup/Mgrs of Production/Operating Workers	\$40,100	\$61,517	High school diploma	None	Less than 5 years	2,898	-28	X			13,616	635
194	51-3092.00	Food Batchmakers	\$23,810	\$33,922	High school diploma	Moderate-term on-the-job training	None	868	21	X			42	16
195	51-4033.00	Grind/Lapping/Polish/Buf Mach.Tool S/O/T, M/P	\$23,910	\$34,303	High school diploma	Moderate-term on-the-job training	None	621	-71	X			105	23
196	51-9198.00	Helpers--Production Workers	\$21,760	\$30,882	High school diploma	Short-term on-the-job training	None	2,974	142	X			2,200	291
197	51-9061.00	Inspectors, Testers, Sorters, Samplers, and Weighers	\$26,370	\$39,672	High school diploma	Moderate-term on-the-job training	None	3,014	-421	X			1,775	234
198	51-4041.00	Machinists	\$29,610	\$42,650	High school diploma	Long-term on-the-job training	None	2,854	56	X			1,400	187
199	51-9023.00	Mixing/Blending Machine Setters/Operators/Tenders	\$26,640	\$38,394	High school diploma	Moderate-term on-the-job training	None	791	-38	X			340	43
200	51-4072.00	Molding/Coremaking/Casting Mach. S/O/T, M/P	\$23,730	\$30,759	High school diploma	Moderate-term on-the-job training	None	1,411	-236	X			233	47
201	51-4081.00	Multiple Machine Tool Setters, Operators, and Tenders, Metal	\$25,370	\$35,828	High school diploma	Moderate-term on-the-job training	None	1,427	-38	X			42	20
202	51-4012.00	Numerical Tool and Process Control Programmers	\$36,170	\$50,512	Certificate/ Some college	Moderate-term on-the-job training	None	247	34			X	91	29
203	51-9111.00	Packaging and Filling Machine Operators/Tenders	\$22,760	\$32,016	High school diploma	Moderate-term on-the-job training	None	2,089	29	X			2,260	149
204	51-5112.00	Printing Press Operators and Job Printers	\$24,490	\$36,818	High school diploma	Moderate-term on-the-job training	None	793	-102	X			277	66
205	51-9199.00	Production Workers, All Other ³	\$21,060	\$33,384	High school diploma	Moderate-term on-the-job training	None	2,168	78	X			15	3
206	51-2092.00	Team Assemblers ⁴	-	\$30,060	High school diploma	Moderate-term on-the-job training	None	4,125	-444	X			391	71
207	51-4111.00	Tool and Die Makers	\$36,640	\$51,357	Certificate/ Some college	Long-term on-the-job training	None	653	-55	X			284	62
208	51-4121.00	Welders, Cutters, Solderers, and Brazers	\$29,950	\$40,589	High school diploma	Moderate-term on-the-job training	None	1,972	52	X			457	96
209	51-4122.00	Welding/Soldering/Brazing Machine Setters, O/T	\$28,710	\$39,383	High school diploma	Moderate-term on-the-job training	None	287	-28			X	49	21
							Totals	40,096	-1,932	22	3	3	25,805	2,346

Protective Service														
Ref. No.	Ext. SOC	Occupation Title - 1	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
210	33-9032.00	Security Guards	\$20,060	\$27,314	High school diploma	Short-term on-the-job training	None	4,474	145			X	2,316	104
							Totals	4,474	145	0	0	1	2,316	104

Sales and Related Occupations														
Ref. No.	Ext. SOC	Occupation Title - 10	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
211	41-1012.00	First-Line Sup./Mgrs of Non-Retail Sales Workers	\$41,780	\$71,996	High school diploma	None	Less than 5 years	1,242	47	X			4,638	324
212	41-1011.00	First-Line Superv./Mgrs of Retail Sales Workers	\$24,910	\$39,424	High school diploma	None	Less than 5 years	5,793	135	X			19,810	200
213	41-3021.00	Insurance Sales Agents	\$28,440	\$49,303	High school diploma	Moderate-term on-the-job training	None	2,281	201	X			5,009	102
214	41-2022.00	Parts Salespersons	\$19,650	\$29,100	Less than high school	Moderate-term on-the-job training	None	1,320	19			X	1,200	17
215	41-9022.00	Real Estate Sales Agents	\$23,450	\$36,365	High school diploma	Moderate-term on-the-job training	None	1,581	137	X			164	31
216	41-9031.00	Sales Engineers	\$57,640	\$89,646	Bachelor's degree	Moderate-term on-the-job training	None	377	5			X	1,579	152
217	41-4011.00	Sales Rep., Wholesale & Mfg. Tech./Sci. Prod.	\$41,320	\$77,948	Bachelor's degree	Moderate-term on-the-job training	None	1,999	37	X			4,519	237
218	41-4012.00	Sales Rep., Wholesale/Mfg. ex. Tech./Sci. Prod.	\$34,440	\$59,327	High school diploma	Moderate-term on-the-job training	None	5,121	67	X			9,344	345
219	41-3099.00	Sales Representatives, Services, All Other ³	\$27,850	\$52,437	High school diploma	Moderate-term on-the-job training	None	4,263	181	X			10	5
220	41-3031.00	Securities/Commodities/Fin. Serv. Sales Agents	\$34,530	\$59,554	Bachelor's degree	Moderate-term on-the-job training	None	1,103	77	X			14,651	150
							Totals	25,080	906	8	0	2	60,924	1,563

Transportation and Material Moving Occupations															
Ref. No.	Ext. SOC	Occupation Title - 9	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	
221	53-3022.00	Bus Drivers, School	\$21,440	\$30,689	High school diploma	Short-term on-the-job training	None	1,464	103	X			265	27	
222	53-1031.00	FL Sup/Mgr of Trans/Mat.-Mov. Mach & Veh Op ⁴	-	\$53,810	High school diploma	None	Less than 5 years	777	39	X			6,284	370	
223	53-1021.00	FL Sup/Mgrs of Help/Labor/Mat. Movers, Hand ⁴	-	\$53,810	High school diploma	None	Less than 5 years	782	47	X			199	57	
224	53-7051.00	Industrial Truck and Tractor Operators	\$25,790	\$35,257	Less than high school	Short-term on-the-job training	None	2,532	77	X			1,622	158	
225	53-7062.00	Laborers/Freight/Stock/Material Movers, Hand	\$20,850	\$29,596	Less than high school	Short-term on-the-job training	None	16,347	761	X			7,048	279	
226	53-7063.00	Machine Feeders and Offbearers	\$20,240	\$32,468	Less than high school	Short-term on-the-job training	None	520	-9			X	62	23	
227	53-7081.00	Refuse and Recyclable Material Collectors	\$23,950	\$38,827	Less than high school	Short-term on-the-job training	None	1,009	98	X			32	5	
228	53-3032.00	Truck Drivers, Heavy and Tractor-Trailer	\$31,310	\$44,717	Certificate/ Some college	Short-term on-the-job training	None	8,465	301	X			12,921	177	
229	53-3033.00	Truck Drivers, Light or Delivery Services	\$20,010	\$31,001	High school diploma	Short-term on-the-job training	None	4,232	157	X			6,556	151	
								Totals	36,128	1,574	8	0	1	34,989	1,247

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					
¹ Typical education level needed to enter the occupation, using the US Bureau of Labor Statistics (BLS) education and training classification system					
² Typical on-the-job training needed to attain competency in the occupation (https://www.bls.gov/emp/documentation/education/tech.htm)					
*The openings and growth numbers for this occupation represent an occupational category that includes, but is larger than the specific occupational title listed					
³ Indicates wage was derived from converting hourly wage to annual wage					
⁴ Indicates a wage obtained from US Bureau of Labor Statistics (BLS)					