

In-Demand Occupations Report - 9/01/2016

Occupations with State Annual Earnings ≥ \$12.98 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 (as of

Ref #	Ext. SOC	Occupation Title - 7	Projections - Less than high school						Methodology				OMJ		Forecast	
			Starting Wage	Median Wage	On-the-Job Training ²	Relevant Work Experience	Total Annual Openings	Growth	Base	JobsOhio	2nd Tier	Review Comm	Jobs	Employers	Jobs	Employers
1	47-2061.00	Construction Laborers	\$24,380	\$36,520	Short-term on-the-job training	-	1,205	557	x	-	-	-	256	48	975	4
2	51-9198.00	Helpers--Production Workers	\$19,290	\$25,060	Short-term on-the-job training	-	511	125	-	-	x	-	1,452	257	436	10
3	53-7051.00	Industrial Truck and Tractor Operators	\$23,300	\$31,120	Short-term on-the-job training	Less than 1 year	556	0	x	-	-	-	602	112	43	2
4	47-2141.00	Painters, Construction and Maintenance	\$25,160	\$36,010	Moderate-term on-the-job training	-	287	154	x	-	-	-	54	20	0	0
5	41-2022.00	Parts Salespersons	\$19,170	\$26,610	Moderate-term on-the-job training	-	303	50	x	-	-	-	444	13	0	0
6	47-5013.00	Service Unit Operators, Oil, Gas, and Mining	\$24,640	\$42,530	Moderate-term on-the-job training	-	19	6	-	-	-	x	33	11	1307	1
7	53-7073.00	Wellhead Pumpers	\$24,510	\$31,150	Moderate-term on-the-job training	Less than 1 year	-	-	-	x	-	-	0	0	10	1

Ref #	Ext. SOC	Occupation Title - 84	Projections - High school diploma or equivalent						Methodology				OMJ		Forecast	
			Starting Wage	Median Wage	On-the-Job Training ²	Relevant Work Experience	Total Annual Openings	Growth	Base	JobsOhio	2nd Tier	Review Comm	Jobs	Employers	Jobs	Employers
8	11-3011.00	Administrative Services Managers	\$52,500	\$74,060	-	1 to 5 years	245	90	x	-	-	-	429	114	0	0
9	51-2099.00	Assemblers and Fabricators, All Other	\$19,790	\$24,180	Moderate-term on-the-job training	-	524	183	-	-	x	-	202	59	185	5
10	49-3023.00	Automotive Service Technicians and Mechanics	\$21,600	\$33,730	Long-term on-the-job training	-	805	158	x	-	-	-	2,773	93	3	1
11	43-3011.00	Bill and Account Collectors	\$22,850	\$29,860	Moderate-term on-the-job training	-	735	262	x	-	-	-	5,569	204	186	3
12	43-3021.00	Billing and Posting Clerks	\$25,550	\$32,890	Short-term on-the-job training	-	809	357	x	-	-	-	1,072	105	0	0
13	43-3031.00	Bookkeeping, Accounting, and Auditing Clerks	\$24,090	\$35,130	Moderate-term on-the-job training	-	1,100	500	x	-	-	-	4,590	408	16	1
14	47-2021.00	Brickmasons and Blockmasons	\$32,750	\$49,680	Apprenticeship	-	115	76	x	-	-	-	3	2	0	0
15	49-3031.00	Bus and Truck Mechanics and Diesel Engine Specialists	\$30,070	\$43,440	Long-term on-the-job training	-	284	58	x	-	-	-	1,266	97	113	3
16	53-3022.00	Bus Drivers, School or Special Client	\$18,500	\$26,950	Moderate-term on-the-job training	-	329	102	x	-	-	-	195	13	0	0
17	13-1199.00	Business Operations Specialists, All Other	\$38,860	\$60,990	Long-term on-the-job training	Less than 1 year	390	66	-	-	x	-	5,080	304	75	1
18	47-2031.00	Carpenters	\$28,760	\$42,420	Apprenticeship	-	869	527	x	-	-	-	139	34	30	1
19	51-9011.00	Chemical Equipment Operators and Tenders	\$36,380	\$50,080	Moderate-term on-the-job training	-	86	0	-	x	-	-	1	1	25	2
20	51-8091.00	Chemical Plant and System Operators	\$31,180	\$43,050	Long-term on-the-job training	-	78	2	-	x	-	-	134	25	17	1
21	13-1031.00	Claims Adjusters, Examiners, and Investigators	\$38,570	\$58,270	Long-term on-the-job training	-	306	40	-	-	x	-	2,339	89	190	4
22	27-2022.00	Coaches and Scouts	\$17,940	\$26,000	Long-term on-the-job training	-	429	138	x	-	-	-	67	7	0	0
23	51-4012.00	Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic	\$32,860	\$43,030	Moderate-term on-the-job training	-	79	35	-	x	-	-	139	43	58	6
24	51-4011.00	Computer-Controlled Machine Tool Operators, Metal and Plastic	\$25,760	\$36,140	Moderate-term on-the-job training	-	511	179	x	-	-	-	912	127	373	8
25	49-9012.00	Control and Valve Installers and Repairers, Except Mechanical Door	\$34,280	\$54,910	Moderate-term on-the-job training	-	47	0	-	x	-	-	10	4	7	2
26	43-4051.00	Customer Service Representatives	\$22,170	\$31,170	Short-term on-the-job training	-	2,824	644	x	-	-	-	27,204	530	7,172	22
27	49-9051.00	Electrical Power-Line Installers and Repairers	\$37,220	\$62,840	Long-term on-the-job training	-	172	34	-	-	x	-	36	11	230	2
28	47-2111.00	Electricians	\$33,470	\$49,660	Apprenticeship	-	746	343	x	-	-	-	857	154	342	16
29	51-2031.00	Engine and Other Machine Assemblers	\$32,300	\$49,690	Short-term on-the-job training	-	52	9	-	x	-	-	10	4	46	2
30	43-6011.00	Executive Secretaries and Executive Administrative Assistants	\$33,810	\$44,830	-	1 to 5 years	367	0	x	-	-	-	7,164	451	92	2
31	11-9013.00	Farmers, Ranchers, and Other Agricultural Managers	\$43,460	\$57,850	-	More than 5 years	1,219	0	x	-	-	-	66	12	0	0
32	47-1011.00	First-Line Supervisors of Construction Trades and Extraction Workers	\$41,620	\$58,750	-	More than 5 years	353	217	x	-	-	-	494	122	95	4
33	35-1012.00	First-Line Supervisors of Food Preparation and Serving Workers	\$20,090	\$27,630	-	1 to 5 years	1,341	397	x	-	-	-	3,769	96	600	2
34	53-1021.00	First-Line Supervisors of Helpers, Laborers, and Material Movers, Hand	\$30,240	\$43,590	-	1 to 5 years	251	55	x	-	-	-	108	46	166	3
35	49-1011.00	First-Line Supervisors of Mechanics, Installers, and Repairers	\$39,030	\$57,750	-	1 to 5 years	527	101	x	-	-	-	3,670	406	10	3
36	41-1012.00	First-Line Supervisors of Non-Retail Sales Workers	\$39,540	\$66,310	-	More than 5 years	170	0	-	x	-	-	4951	301	6	1
37	43-1011.00	First-Line Supervisors of Office and Administrative Support Workers	\$32,390	\$47,040	-	1 to 5 years	1,413	384	x	-	-	-	23,739	533	0	0
38	33-1099.00	First-Line Supervisors of Protective Service Workers, All Other	\$25,710	\$39,580	-	1 to 5 years	53	10	-	-	x	-	1,060	72	9	1
39	41-1011.00	First-Line Supervisors of Retail Sales Workers	\$23,690	\$34,220	-	1 to 5 years	1,242	0	x	-	-	-	21,558	211	87	1
40	53-1031.00	First-Line Supervisors of Transportation and Material-Moving Machine and Vehicle Operator	\$33,630	\$50,940	-	-	293	50	-	-	x	-	2,737	310	5	1
41	37-1011.00	FL Sup/Mgrs of Housekeeping & Janitorial Workers	\$23,130	\$33,480	-	1 to 5 years	274	85	x	-	-	-	268	36	0	0
42	11-9051.00	Food Service Managers	\$29,600	\$44,130	-	1 to 5 years	263	0	x	-	-	-	602	48	90	1
43	53-3032.00	Heavy and Tractor-Trailer Truck Drivers	\$27,490	\$37,720	Short-term on-the-job training	1 to 5 years	1,684	564	x	-	-	-	7,658	143	861	8

44	49-9041.00	Industrial Machinery Mechanics	\$33,130	\$45,580	Long-term on-the-job training	-	701	257	x	-	-	-	1,042	247	71	5
45	51-9061.00	Inspectors, Testers, Sorters, Samplers, and Weighers	\$24,060	\$34,580	Moderate-term on-the-job training	-	610	92	x	-	-	-	1,393	208	159	4
46	43-9041.00	Insurance Claims and Policy Processing Clerks	\$26,430	\$35,040	Moderate-term on-the-job training	-	579	150	x	-	-	-	354	47	25	1
47	41-3021.00	Insurance Sales Agents	\$27,880	\$48,660	Moderate-term on-the-job training	-	620	188	x	-	-	-	5,542	91	1,434	2
48	43-4111.00	Interviewers, Except Eligibility and Loan	\$22,620	\$29,140	Short-term on-the-job training	-	261	80	x	-	-	-	1,222	50	0	0
49	53-3033.00	Light Truck or Delivery Services Drivers	\$19,300	\$28,390	Short-term on-the-job training	-	591	101	x	-	-	-	3,460	122	158	3
50	13-2072.00	Loan Officers	\$32,700	\$55,830	Moderate-term on-the-job training	-	271	65	x	-	-	-	26,596	63	498	9
51	11-9199.08	Loss Prevention Managers*	\$51,490	\$88,090	-	1 to 5 years	689	139	-	-	x	-	7,650	412	30	1
52	51-4041.00	Machinists	\$27,300	\$37,900	Long-term on-the-job training	-	937	261	x	-	-	-	1,720	227	333	18
53	49-9071.00	Maintenance and Repair Workers, General	\$23,670	\$35,800	Moderate-term on-the-job training	-	1,371	334	x	-	-	-	7,161	622	539	32
54	49-9043.00	Maintenance Workers, Machinery	\$31,770	\$42,690	Moderate-term on-the-job training	-	74	24	-	x	-	-	12	6	193	26
55	11-9199.00	Managers, All Other	\$51,490	\$88,090	-	1 to 5 years	689	139	-	-	x	-	7,650	412	264	8
56	31-9092.00	Medical Assistants	\$22,890	\$27,980	Moderate-term on-the-job training	-	892	463	x	-	-	-	7,197	72	845	3
57	43-6013.00	Medical Secretaries	\$22,840	\$29,730	Moderate-term on-the-job training	-	1,515	1,047	x	-	-	-	6,576	83	0	0
58	49-9044.00	Millwrights	\$34,400	\$54,350	Long-term on-the-job training	-	78	38	-	x	-	-	18	11	57	3
59	49-3042.00	Mobile Heavy Equipment Mechanics, Except Engines	\$32,180	\$43,760	Long-term on-the-job training	-	124	31	-	x	-	-	151	25	114	2
60	51-4072.00	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	\$20,920	\$27,450	Moderate-term on-the-job training	-	133	0	-	-	x	-	277	68	110	7
61	43-9061.00	Office Clerks, General	\$19,590	\$27,780	Short-term on-the-job training	-	2,578	424	x	-	-	-	3,007	285	30	1
62	13-1199.06	Online Merchants*	\$38,860	\$60,990	Long-term on-the-job training	Less than 1 year	390	66	-	-	x	-	5,080	304	31	2
63	47-2073.00	Operating Engineers and Other Construction Equipment Operators	\$32,560	\$44,510	Moderate-term on-the-job training	-	456	174	x	-	-	-	66	26	255	4
64	51-9111.00	Packaging and Filling Machine Operators and Tenders	\$20,370	\$28,480	Moderate-term on-the-job training	-	397	0	x	-	-	-	882	92	65	1
65	51-8093.00	Petroleum Pump System Operators, Refinery Operators, and Gaugers	\$44,350	\$55,990	Long-term on-the-job training	-	56	0	-	x	-	-	20	8	35	1
66	29-2052.00	Pharmacy Technicians	\$20,790	\$27,170	Moderate-term on-the-job training	-	383	240	x	-	-	-	2,789	79	444	4
67	31-9097.00	Phlebotomists (Healthcare Support Workers, All Other)	\$24,000	\$28,770	Short-term on-the-job training	-	189	99	-	-	x	-	1,293	41	350	1
68	47-2152.00	Plumbers, Pipefitters, and Steamfitters	\$31,900	\$48,990	Apprenticeship	-	409	248	x	-	-	-	189	33	58	2
69	51-8013.00	Power Plant Operators	\$49,850	\$64,850	Long-term on-the-job training	-	56	0	-	x	-	-	36	14	10	1
70	51-9199.00	Production Workers, All Other	\$21,250	\$30,450	Moderate-term on-the-job training	-	258	20	-	-	x	-	246	82	1,075	17
71	43-5061.00	Production, Planning, and Expediting Clerks	\$28,850	\$40,390	Moderate-term on-the-job training	-	442	93	x	-	-	-	2,087	365	8	3
72	11-9141.00	Property, Real Estate & Community Assn Mgrs	\$27,210	\$45,730	-	1 to 5 years	323	93	x	-	-	-	846	88	0	0
73	13-1023.00	Purchasing Agents, Except Wholesale, Retail, and Farm Products	\$39,960	\$57,640	Long-term on-the-job training	-	225	0	-	x	-	-	4,239	439	47	5
74	49-3043.00	Rail Car Repairers	\$39,060	\$53,910	Long-term on-the-job training	-	25	0	-	x	-	-	119	3	27	1
75	43-4171.00	Receptionists and Information Clerks	\$19,050	\$24,050	Short-term on-the-job training	-	883	171	-	-	x	-	697	104	9	1
76	41-3099.00	Sales Representatives, Services, All Other	\$28,700	\$46,770	Short-term on-the-job training	-	1,104	374	-	-	x	-	7,047	222	127	4
77	41-4012.00	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	\$31,080	\$51,140	Moderate-term on-the-job training	-	1,386	405	x	-	-	-	11,402	387	31	2
78	51-7041.00	Sawing Mach. Setters/Operators/Tenders, Wood	\$19,980	\$26,280	Short-term on-the-job training	-	60	26	-	-	x	-	6	4	3	1
79	43-6014.00	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	\$22,630	\$31,660	Short-term on-the-job training	-	1,588	750	x	-	-	-	1,804	278	280	1
80	25-3021.00	Self-Enrichment Education Teachers	\$22,290	\$39,550	-	1 to 5 years	340	148	x	-	-	-	21	8	0	0
81	43-5071.00	Shipping, Receiving, and Traffic Clerks	\$20,900	\$28,360	Short-term on-the-job training	-	960	64	x	-	-	-	904	164	13	3
82	21-1093.00	Social and Human Service Assistants	\$20,290	\$28,620	Short-term on-the-job training	-	472	172	x	-	-	-	1,958	107	0	0
83	51-8021.00	Stationary Engineers and Boiler Operators	\$41,200	\$51,460	Long-term on-the-job training	-	41	3	-	x	-	-	180	45	25	3
84	11-9199.04	Supply Chain Managers*	\$51,490	\$88,090	-	1 to 5 years	689	139	-	-	x	-	7,650	412	85	2
85	51-2092.00	Team Assemblers	\$21,440	\$30,400	Moderate-term on-the-job training	-	1,435	410	x	-	-	-	355	64	75	1
86	43-3071.00	Tellers	\$20,030	\$23,400	Short-term on-the-job training	-	1,031	0	-	-	x	-	34,660	61	141	5
87	51-4111.00	Tool and Die Makers	\$36,040	\$45,760	Long-term on-the-job training	-	87	25	-	x	-	-	270	74	163	14
88	11-3071.00	Transportation, Storage, and Distribution Managers	\$55,810	\$80,640	-	More than 5 years	154	33	-	x	-	-	1,440	250	19	5
89	51-4121.00	Welders, Cutters, Solderers, and Brazers	\$26,850	\$35,330	Moderate-term on-the-job training	Less than 1 year	399	61	x	-	-	-	579	107	781	17
90	51-4122.00	Welding/Soldering/Brazing Machine Setters, O/T	\$24,100	\$32,520	Moderate-term on-the-job training	-	249	121	x	-	-	-	29	15	0	0
91	13-1022.00	Wholesale and Retail Buyers, Except Farm Products	\$36,690	\$52,120	Long-term on-the-job training	-	157	39	-	x	-	-	446	42	83	3

Ref #	Ext. SOC	Occupation Title - 17	Projections - Certificate/Some College					Methodology				OMJ		Forecast		
			Starting Wage	Median Wage	On-the-Job Training ²	Relevant Work Experience	Total Annual Openings	Growth	Base	JobsOhio	2nd Tier	Review Comm	Jobs	Employers	Jobs	Employers
92	49-3011.00	Aircraft Mechanics and Service Technicians	\$38,600	\$59,510	-	-	82	17	-	x	-	-	145	30	182	3
93	49-2091.00	Avionics Technicians	\$39,560	\$55,600	-	-	8	0	-	-	x	-	45	15	47	2
94	15-1151.00	Computer User Support Specialists	\$30,090	\$43,650	Moderate-term on-the-job training	-	629	334	x	-	-	-	16,389	562	264	6
95	31-9091.00	Dental Assistants	\$26,210	\$34,510	-	-	323	122	x	-	-	-	243	19	6	1
96	49-2094.00	Electrical and Electronics Repairers, Commercial and Industrial Equipment	\$37,070	\$54,710	Long-term on-the-job training	-	42	0	-	x	-	-	197	55	33	4

97	49-2095.00	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	\$52,600	\$64,690	Long-term on-the-job training	-	21	0	-	x	-	-	0	0	4	1
98	29-2041.00	Emergency Medical Technicians and Paramedics	\$21,240	\$27,700	-	-	450	188	x	-	-	-	1,168	50	6,650	1
99	51-1011.00	First-Line Supervisors of Production and Operating Workers	\$36,640	\$52,940	-	1 to 5 years	416	0	x	-	-	-	12,792	719	470	33
100	29-2099.00	Health Technologists and Technicians, All Other	\$28,800	\$38,880	Short-term on-the-job training	-	152	100	x	-	-	-	1,363	50	0	0
101	49-9021.00	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	\$30,450	\$42,250	Long-term on-the-job training	-	412	182	x	-	-	-	462	58	65	2
102	29-2061.00	Licensed Practical and Licensed Vocational Nurses	\$33,350	\$40,120	-	-	1,886	886	x	-	-	-	2,982	64	99	1
103	29-2071.00	Medical Records and Health Information Technicians	\$25,740	\$34,550	-	-	336	129	-	-	x	-	5,107	113	65	2
104	31-1014.00	Nursing Aides, Orderlies, and Attendants (STNA)	\$20,250	\$23,740	-	-	2,373	1,019	-	-	x	-	4,878	65	3,150	3
105	51-5111.00	Prepress Technicians and Workers	\$26,450	\$36,790	-	-	-	-	-	-	x	-	4	4	9	1
106	29-2099.07	Surgical Assistants*	\$28,800	\$38,880	Short-term on-the-job training	-	152	100	-	-	x	-	1,363	50	18	2
107	29-2055.00	Surgical Technologists	\$33,090	\$41,590	-	-	127	90	-	-	x	-	2,429	52	177	2
108	49-2022.00	Telecommunications Equipment Installers and Repairers, Except Line Installers	\$31,790	\$51,350	Moderate-term on-the-job training	-	154	49	-	-	x	-	1,271	27	975	3

Projections - Associate's degree														Methodology				OMJ		Forecast	
Ref . #	Ext. SOC	Occupation Title - 21	Starting Wage	Median Wage	On-the-Job Training ²	Relevant Work Experience	Total Annual Openings	Growth	Base	JobsOhio	2nd Tier	Review Comm	Jobs	Employers	Jobs	Employers					
109	17-3021.00	Aerospace Engineering and Operations Technicians	\$46,050	\$60,950	-	-	5	0	-	x	-	-	11	4	13	1					
110	17-3011.01	Architectural and Civil Drafters*	\$33,470	\$46,380	-	-	39	0	-	x	-	-	176	35	4	1					
111	17-3022.00	Civil Engineering Technicians	\$34,590	\$50,620	-	-	42	0	-	x	-	-	128	37	13	1					
112	29-2021.00	Dental Hygienists	\$52,580	\$65,550	-	-	368	161	x	-	-	-	26	8	0	0					
113	29-2032.00	Diagnostic Medical Sonographers	\$50,260	\$60,070	-	-	127	93	x	-	-	-	1,526	52	0	0					
114	17-3023.00	Electrical and Electronic Engineering Technicians	\$36,970	\$56,260	-	-	92	5	-	x	-	-	1,311	203	214	9					
115	17-3024.00	Electro-Mechanical Technicians	\$37,410	\$54,810	-	-	12	0	-	x	-	-	108	37	134	4					
116	11-1021.00	General and Operations Managers	\$49,790	\$89,740	-	1 to 5 years	1,526	461	x	-	-	-	14,497	445	367	9					
117	17-3026.00	Industrial Engineering Technicians	\$35,500	\$46,910	-	-	63	0	-	x	-	-	1,521	283	47	3					
118	19-4099.01	Life, Physical, and Social Science Technicians, All Other*	\$30,700	\$46,960	Moderate-term on-the-job training	-	55	9	-	x	-	-	205	65	87	10					
119	17-3029.09	Manufacturing Production Technicians*	\$38,810	\$57,150	-	-	66	0	-	-	-	x	250	65	127	5					
120	17-3013.00	Mechanical Drafters	\$35,070	\$45,900	-	-	41	0	-	x	-	-	258	77	13	2					
121	17-3027.00	Mechanical Engineering Technicians	\$35,190	\$48,020	-	-	69	9	-	x	-	-	176	54	178	3					
122	29-2012.00	Medical and Clinical Laboratory Technicians	\$30,660	\$41,230	-	-	316	149	-	-	x	-	2,187	99	470	4					
123	31-2011.00	Occupational Therapy Assistants	\$42,680	\$55,230	-	-	145	85	-	-	x	-	1,439	45	10	1					
124	23-2011.00	Paralegals and Legal Assistants	\$28,710	\$41,570	-	-	244	126	x	-	-	-	641	116	0	0					
125	31-2021.00	Physical Therapist Assistants	\$43,240	\$55,030	-	-	270	156	x	-	-	-	1,581	50	0	0					
126	29-2034.00	Radiologic Technologists and Technicians	\$41,020	\$52,320	-	-	264	140	x	-	-	-	2,334	63	8	1					
127	29-1141.00	Registered Nurses	\$49,980	\$60,530	-	-	4,271	1,891	x	-	-	-	51,844	152	32,650	23					
128	29-1126.00	Respiratory Therapists	\$43,330	\$52,870	-	-	172	89	x	-	-	-	1,996	54	0	0					
129	29-2056.00	Veterinary Technologists and Technicians	\$23,020	\$29,240	-	-	120	90	x	-	-	-	129	9	0	0					

Projections - Bachelor's degree														Methodology				OMJ		Forecast	
Ref . #	Ext. SOC	Occupation Title - 64	Starting Wage	Median Wage	On-the-Job Training ²	Relevant Work Experience	Total Annual Openings	Growth	Base	JobsOhio	2nd Tier	Review Comm	Jobs	Employers	Jobs	Employers					
130	13-2011.00	Accountants and Auditors	\$42,860	\$60,420	-	-	1,546	354	x	-	-	-	25,787	641	187	20					
131	15-2011.00	Actuaries	\$59,320	\$86,630	Long-term on-the-job training	-	55	26	-	x	-	-	249	21	57	3					
132	17-2011.00	Aerospace Engineers	\$72,370	\$98,740	-	-	93	0	-	x	-	-	2,087	80	76	4					
133	11-9041.00	Architectural and Engineering Managers	\$80,540	\$112,470	-	More than 5 years	220	40	-	-	x	-	2,700	306	153	2					
134	17-2031.00	Biomedical Engineers	\$51,190	\$82,580	-	-	20	6	-	x	-	-	276	29	20	2					
135	17-2041.00	Chemical Engineers	\$57,580	\$83,430	-	-	39	5	-	x	-	-	706	103	112	14					
136	19-2031.00	Chemists	\$41,580	\$64,150	-	-	93	7	-	x	-	-	977	87	61	6					
137	21-1021.00	Child, Family, and School Social Workers	\$30,320	\$39,640	-	-	308	123	x	-	-	-	287	27	0	0					
138	17-2051.00	Civil Engineers	\$51,090	\$72,920	-	-	291	117	-	-	x	-	946	125	34	1					
139	27-1021.00	Commercial and Industrial Designers	\$43,050	\$63,640	-	-	65	7	-	x	-	-	513	48	15	1					
140	13-1041.00	Compliance Officers	\$39,660	\$57,670	Moderate-term on-the-job training	-	157	30	-	x	-	-	1,028	153	49	2					
141	11-3021.00	Computer and Information Systems Managers	\$75,830	\$111,630	-	More than 5 years	319	161	x	-	-	-	11,607	314	101	8					
142	15-1143.00	Computer Network Architects*	\$69,200	\$95,640	-	-	117	49	-	-	x	-	1,563	162	9	1					
143	15-1152.00	Computer Network Support Specialists	\$34,780	\$48,740	-	-	132	22	-	x	-	-	193	53	127	3					
144	15-1199.00	Computer Occupations, All Other	\$52,100	\$80,020	-	-	135	7	-	-	x	-	36,033	471	765	21					
145	15-1131.00	Computer Programmers	\$45,330	\$66,020	-	-	252	9	x	-	-	-	7,084	347	333	8					

146	15-1121.00	Computer Systems Analysts	\$54,310	\$77,560	-	-	1,018	591	x	-	-	-	41,674	512	358	13
147	11-9021.00	Construction Managers	\$49,680	\$78,480	Moderate-term on-the-job training	More than 5 years	523	232	x	-	-	-	967	122	57	2
148	13-1051.00	Cost Estimators	\$33,380	\$55,140	-	-	515	207	x	-	-	-	282	68	5	3
149	13-2041.00	Credit Analysts	\$39,800	\$59,100	-	-	96	18	-	x	-	-	3,096	95	877	3
150	15-1141.00	Database Administrators	\$48,210	\$74,740	-	1 to 5 years	143	58	-	x	-	-	5608	240	39	3
151	17-2071.00	Electrical Engineers	\$55,030	\$76,390	-	-	147	24	-	x	-	-	4,363	270	296	25
152	17-2072.00	Electronics Engineers, Except Computer	\$60,960	\$86,760	-	-	90	6	-	-	x	-	1,570	164	199	4
153	17-2199.00	Engineers, All Other	\$52,770	\$84,060	-	-	120	0	-	-	x	-	1,156	217	17	4
154	19-2041.00	Environmental Scientists and Specialists, Including Health	\$42,330	\$69,300	-	-	100	24	-	x	-	-	641	81	29	3
155	13-2051.00	Financial Analysts	\$49,800	\$71,380	-	-	286	82	x	-	-	-	6,724	310	623	11
156	11-3031.00	Financial Managers	\$59,470	\$97,970	-	More than 5 years	476	108	x	-	-	-	32,140	410	383	9
157	19-1012.00	Food Scientists and Technologists	\$42,710	\$62,790	-	-	23	2	-	x	-	-	603	48	19	2
158	27-1024.00	Graphic Designers	\$28,850	\$42,920	-	-	356	92	x	-	-	-	1,715	167	0	0
159	17-2111.00	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	\$55,240	\$77,210	-	-	32	10	-	-	x	-	1,766	240	8	4
160	11-3121.00	Human Resources Managers	\$64,240	\$93,920	-	1 to 5 years	143	46	-	x	-	-	6,975	530	12	6
161	13-1071.00	Human Resources Specialists	\$36,240	\$53,770	-	-	383	98	-	-	x	-	3,151	276	6	3
162	17-2112.00	Industrial Engineers	\$52,760	\$73,300	-	-	361	40	x	-	-	-	22,078	685	177	14
163	11-3051.00	Industrial Production Managers	\$56,920	\$83,720	-	1 to 5 years	228	0	x	-	-	-	1,700	310	48	13
164	15-1122.00	Information Security Analysts*	\$56,640	\$83,120	-	1 to 5 years	81	53	-	x	-	-	4,949	187	3	1
165	15-1199.09	Information Technology Project Managers*	\$52,100	\$80,020	-	-	135	7	-	-	-	x	36,033	471	467	17
166	13-2053.00	Insurance Underwriters	\$43,220	\$60,570	Moderate-term on-the-job training	-	140	0	-	-	x	-	762	46	109	5
167	27-3091.00	Interpreters and Translators	\$28,130	\$43,990	Long-term on-the-job training	-	138	107	x	-	-	-	305	40	1	1
168	13-1081.00	Logisticians	\$47,750	\$68,980	-	1 to 5 years	179	110	x	-	-	-	2,234	220	26	2
169	13-1111.00	Management Analysts	\$46,390	\$73,710	-	1 to 5 years	693	336	x	-	-	-	45,181	362	2	1
170	17-2199.04	Manufacturing Engineers*	\$52,770	\$84,060	-	-	120	0	-	-	-	x	1,156	217	279	20
171	13-1161.00	Market Research Analysts and Marketing Specialists	\$36,240	\$55,840	-	-	810	552	x	-	-	-	9,530	387	59	7
172	11-2021.00	Marketing Managers	\$72,080	\$111,320	-	1 to 5 years	171	55	-	x	-	-	22,626	512	58	9
173	17-2131.00	Materials Engineers	\$59,410	\$88,270	-	-	43	0	-	x	-	-	1,064	114	120	5
174	17-2141.00	Mechanical Engineers	\$49,900	\$70,940	-	-	428	26	x	-	-	-	7,270	395	522	38
175	29-2011.00	Medical and Clinical Laboratory Technologists	\$47,980	\$56,250	-	-	222	63	-	-	x	-	3,268	70	215	4
176	11-9111.00	Medical and Health Services Managers	\$61,200	\$85,590	-	-	644	276	x	-	-	-	14,118	150	265	3
177	21-1023.00	Mental Health and Substance Abuse Social Workers	\$27,380	\$36,060	-	-	259	127	x	-	-	-	1,970	62	67	2
178	11-9121.00	Natural Sciences Managers	\$61,740	\$102,680	-	-	26	4	-	-	x	-	1,487	89	250	1
179	15-1142.00	Network and Computer Systems Administrators	\$47,710	\$66,430	-	-	377	146	x	-	-	-	13,707	463	260	9
180	29-9011.00	Occupational Health and Safety Specialists	\$49,240	\$69,870	Moderate-term on-the-job training	-	78	10	-	x	-	-	387	95	9	3
181	15-2031.00	Operations Research Analysts	\$46,710	\$70,070	-	-	130	66	-	x	-	-	5,258	293	8	1
182	13-2052.00	Personal Financial Advisors**	\$37,570	\$64,840	-	-	286	82	x	-	-	-	3,728	59	81	2
183	27-3031.00	Public Relations Specialists	\$30,380	\$46,370	Moderate-term on-the-job training	-	186	83	x	-	-	-	2,900	292	1	1
184	11-3061.00	Purchasing Managers	\$65,370	\$96,580	-	More than 5 years	60	0	-	x	-	-	5,157	320	170	3
185	41-9031.00	Sales Engineers	\$58,030	\$85,820	Moderate-term on-the-job training	-	78	27	-	x	-	-	2,909	182	90	1
186	11-2022.00	Sales Managers	\$62,630	\$102,910	-	1 to 5 years	405	95	x	-	-	-	7,863	431	102	13
187	41-4011.00	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	\$40,420	\$67,220	Moderate-term on-the-job training	-	695	244	x	-	-	-	8,759	250	105	9
188	41-3031.00	Securities, Commodities, and Financial Services Sales Agents	\$29,000	\$51,490	Moderate-term on-the-job training	-	378	70	x	-	-	-	36,157	154	272	3
189	15-1132.00	Software Developers, Applications	\$54,100	\$80,810	-	-	790	472	x	-	-	-	16,375	362	1,643	18
190	15-1133.00	Software Developers, Systems Software	\$61,240	\$84,720	-	-	123	51	-	x	-	-	2206	149	202	6
191	27-3042.00	Technical Writers	\$39,580	\$57,700	Short-term on-the-job training	1 to 5 years	48	12	-	x	-	-	817	131	0	0
192	13-1151.00	Training and Development Specialists	\$36,890	\$56,050	-	-	238	94	x	-	-	-	4,607	322	10	1
193	15-1134.00	Web Developers*	\$34,070	\$58,140	-	-	147	81	-	-	x	-	12,283	316	391	12

Ref . #	Ext. SOC	Occupation Title - 10	Projections - Master's degree				Methodology				OMJ		Forecast			
			Starting Wage	Median Wage	On-the-Job Training ²	Relevant Work Experience	Total Annual Openings	Growth	Base	JobsOhio	2nd Tier	Review Comm	Jobs	Employers	Jobs	Employers
194	21-1012.00	Educational, Vocational, and School Counselors	\$35,780	\$54,940	-	-	279	101	x	-	-	-	312	43	0	0
195	21-1022.00	Healthcare Social Workers	\$37,790	\$49,020	-	-	295	154	x	-	-	-	1,617	66	0	0
196	21-1014.00	Mental Health Counselors	\$32,300	\$42,010	Internship/residency	-	187	100	x	-	-	-	216	29	30	1
197	29-1171.00	Nurse Practitioners	\$76,500	\$88,780	-	-	180	103	-	-	-	x	2,306	58	642	6
198	25-1072.00	Nursing Instructors and Teachers, Postsecondary	\$41,890	\$63,750	-	-	179	127	x	-	-	-	396	30	0	0

199	29-1122.00	Occupational Therapists	\$59,540	\$79,280	-	-	177	110	-	-	x	-	2,903	59	262	4
200	29-1071.00	Physician Assistants	\$78,590	\$92,170	-	-	105	67	-	-	x	-	4,536	63	947	4
201	21-1015.00	Rehabilitation Counselors	\$23,820	\$36,260	-	-	202	72	x	-	-	-	108	20	0	0
202	29-1127.00	Speech-Language Pathologists	\$49,980	\$69,580	-	-	176	92	x	-	-	-	1,690	50	0	0
203	15-2041.00	Statisticians	\$48,330	\$72,100	-	-	53	26	-	x	-	-	464	56	3	1

Ref . #	Ext. SOC	Occupation Title - 7	Projections - Doctoral or professional degree					Methodology				OMJ		Forecast		
			Starting Wage	Median Wage	On-the-Job Training ²	Relevant Work Experience	Total Annual Openings	Growth	Base	JobsOhio	2nd Tier	Review Comm	Jobs	Employers	Jobs	Employers
204	25-1121.00	Art, Drama, and Music Teachers, Postsecondary	\$30,090	\$59,230	-	-	158	84	x	-	-	-	39	1	0	0
205	29-1062.00	Family and General Practitioners	\$103,840	\$158,580	Internship/residency	-	158	42	-	-	x	-	2,271	55	35	1
206	23-1011.00	Lawyers	\$54,850	\$94,380	-	-	571	232	x	-	-	-	2,018	154	4	1
207	19-1042.00	Medical Scientists, Except Epidemiologists	\$39,220	\$57,730	-	-	68	23	-	-	x	-	3,022	112	15	3
208	29-1051.00	Pharmacists	\$87,440	\$116,260	-	-	420	142	x	-	-	-	3,970	82	479	5
209	29-1123.00	Physical Therapists	\$61,820	\$80,390	-	-	376	189	x	-	-	-	7,727	67	1,867	8
210	29-1069.00	Physicians and Surgeons, All Other	\$63,000	#	Internship/residency	-	603	220	-	-	x	-	4,207	53	2,670	5

Methodology Total		107	54	44	5	208		178
In-Demand Occupations Total		210	210	210	210	210		210
Percent		50.95%	25.71%	20.95%	2.38%	99.05%		84.76%

Occupations with Annual Earnings ≥ \$12.98 per hour, Job Growth Count ≥ the Area Average (70 jobs), And/Or Total Annual Openings ≥ the Area Average (250 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 (http://www.bls.gov/emp/ep_definitions_edtrain.pdf)
*The openings and growth numbers for this occupation represent an occupational category that includes, but is larger than the specific occupational title listed
indicates a wage greater than \$90.00 per hour or \$187,200 per year
** Indicates that 2022 Occupational Data was suppressed, shown data represents 2020 LMI projections.