

**Pittsburgh MSA
Occupational Employment
2012-2022 Long-Term Projections**

SOC Code	Occupational Title	Estimated 2012	Projected 2022	Percent Change	Average Annual Openings		
					Due to Growth ^{1/}	Due to Replace. ^{2/}	Total ^{3/}
00-0000	Total, All Occupations	1,180,120	1,266,620	7.3%	9,580	27,812	37,392
11-0000	Management Occupations	50,220	53,340	6.2%	355	1,010	1,365
11-1000	Top Executives	14,700	15,720	6.9%	102	284	386
11-1011	Chief Executives	2,810	2,880	2.5%	7	60	67
11-1021	General & Operations Managers	11,420	12,360	8.2%	94	214	308
11-1031	Legislators	470	480	2.1%	1	10	11
11-2000	Advertising, Marketing, Promotions, Public Relations & Sales Managers	4,190	4,540	8.4%	35	91	126
11-2011	Advertising & Promotions Managers	150	160	6.7%	0	5	5
11-2021	Marketing Managers	1,150	1,330	15.7%	18	25	43
11-2022	Sales Managers	2,330	2,440	4.7%	11	50	61
11-2031	Public Relations & Fundraising Managers	560	610	8.9%	5	12	17
11-3000	Operations Specialties Managers	11,250	12,120	7.7%	87	207	294
11-3011	Administrative Services Managers	1,590	1,750	10.1%	16	26	42
11-3021	Computer & Information Systems Managers	2,310	2,550	10.4%	24	32	56
11-3031	Financial Managers	3,810	4,010	5.2%	20	71	91
11-3051	Industrial Production Managers	1,410	1,420	0.7%	2	26	28
11-3061	Purchasing Managers	520	560	7.7%	4	11	15
11-3071	Transportation, Storage & Distribution Managers	560	590	5.4%	3	13	16
11-3111	Compensation & Benefits Managers	200	210	5.0%	1	5	6
11-3121	Human Resources Managers	670	830	23.9%	16	18	34
11-3131	Training & Development Managers	190	210	10.5%	2	5	7
11-9000	Other Management Occupations	20,080	20,970	4.4%	131	428	559
11-9021	Construction Managers	1,890	2,070	9.5%	18	30	48
11-9031	Education Admin., Preschool & Childcare Center/Program	410	450	9.8%	4	11	15
11-9032	Education Administrators, Elementary & Secondary School	1,250	1,240	-0.8%	0	33	33
11-9033	Education Administrators, Postsecondary	1,100	1,200	9.1%	10	29	39
11-9039	Education Administrators, Other	170	190	11.8%	2	4	6
11-9041	Architectural & Engineering Managers	1,460	1,620	11.0%	16	36	52
11-9051	Food Service Managers	1,600	1,610	0.6%	1	29	30
11-9061	Funeral Service Managers	140	160	14.3%	2	3	5
11-9081	Lodging Managers	190	190	0.0%	0	6	6
11-9111	Medical & Health Services Managers	3,060	3,500	14.4%	45	74	119
11-9121	Natural Sciences Managers	280	320	14.3%	3	6	9
11-9131	Postmasters & Mail Superintendents	260	200	-23.1%	0	6	6
11-9141	Property, Real Estate & Community Association Managers	660	700	6.1%	4	15	19

**Pittsburgh MSA
Occupational Employment
2012-2022 Long-Term Projections**

SOC Code	Occupational Title	Estimated 2012	Projected 2022	Percent Change	Average Annual Openings		
					Due to Growth ^{1/}	Due to Replace. ^{2/}	Total ^{3/}
11-9151	Social & Community Service Managers	1,170	1,300	11.1%	13	24	37
11-9161	Emergency Management Directors	70	80	14.3%	1	1	2
11-9199	Managers, Other	3,130	3,250	3.8%	12	68	80
13-0000	Business & Financial Operations Occupations	59,170	64,860	9.6%	576	1,251	1,827
13-1000	Business Operations Specialists	33,440	36,910	10.4%	348	601	949
13-1011	Agents & Business Managers of Artists, Performers & Athletes	80	80	0.0%	0	2	2
13-1021	Buyers & Purchasing Agents, Farm Products	30	40	33.3%	0	1	1
13-1022	Wholesale & Retail Buyers	1,150	1,240	7.8%	9	29	38
13-1023	Purchasing Agents	2,880	3,060	6.2%	18	52	70
13-1031	Claims Adjusters, Examiners & Investigators	2,320	2,390	3.0%	7	54	61
13-1032	Insurance Appraisers, Auto Damage	50	50	0.0%	0	1	1
13-1041	Compliance Officers	2,000	2,090	4.5%	10	37	47
13-1051	Cost Estimators	2,010	2,370	17.9%	36	65	101
13-1071	Human Resources Specialists	3,630	3,890	7.2%	26	66	92
13-1075	Labor Relations Specialists	1,520	1,530	0.7%	1	28	29
13-1081	Logisticians	750	920	22.7%	17	9	26
13-1111	Management Analysts	4,120	4,520	9.7%	40	64	104
13-1121	Meeting, Convention & Event Planners	460	590	28.3%	13	6	19
13-1131	Fundraisers	420	440	4.8%	2	8	10
13-1141	Compensation, Benefits & Job Analysis Specialists	1,030	1,090	5.8%	6	19	25
13-1151	Training & Development Specialists	2,420	2,730	12.8%	32	44	76
13-1161	Market Research Analysts & Marketing Specialists	4,330	5,480	26.6%	115	59	174
13-1199	Business Operations Specialists, Other	4,250	4,410	3.8%	16	58	74
13-2000	Financial Specialists	25,730	27,960	8.7%	228	650	878
13-2011	Accountants & Auditors	13,080	14,320	9.5%	124	387	511
13-2021	Appraisers & Assessors of Real Estate	490	500	2.0%	1	4	5
13-2031	Budget Analysts	300	330	10.0%	2	12	14
13-2041	Credit Analysts	500	540	8.0%	4	12	16
13-2051	Financial Analysts	3,190	3,510	10.0%	31	78	109
13-2052	Personal Financial Advisors	1,990	2,410	21.1%	42	32	74
13-2053	Insurance Underwriters	460	410	-10.9%	0	12	12
13-2061	Financial Examiners	370	420	13.5%	4	9	13
13-2071	Credit Counselors	290	330	13.8%	4	5	9
13-2072	Loan Officers	2,430	2,480	2.1%	5	44	49
13-2081	Tax Examiners, Collectors & Revenue Agents	720	710	-1.4%	0	25	25

**Pittsburgh MSA
Occupational Employment
2012-2022 Long-Term Projections**

SOC Code	Occupational Title	Estimated 2012	Projected 2022	Percent Change	Average Annual Openings		
					Due to Growth ^{1/}	Due to Replace. ^{2/}	Total ^{3/}
13-2082	Tax Preparers	790	820	3.8%	3	16	19
13-2099	Financial Specialists, Other	1,120	1,200	7.1%	7	12	19
15-0000	Computer & Mathematical Occupations	31,260	35,370	13.1%	411	511	922
15-1100	Computer Occupations	30,050	33,970	13.0%	391	479	870
15-1121	Computer Systems Analysts	5,550	6,720	21.1%	117	87	204
15-1131	Computer Programmers	2,440	2,510	2.9%	7	64	71
15-1132	Software Developers, Applications	4,920	5,570	13.2%	65	63	128
15-1133	Software Developers, Systems Software	2,930	3,340	14.0%	41	38	79
15-1134	Web Developers	700	790	12.9%	9	11	20
15-1141	Database Administrators	1,180	1,320	11.9%	14	22	36
15-1142	Network & Computer Systems Administrators	3,940	4,270	8.4%	33	62	95
15-1143	Computer Network Architects	680	710	4.4%	4	11	15
15-1151	Computer User Support Specialists	4,760	5,460	14.7%	70	75	145
15-1152	Computer Network Support Specialists	1,020	1,060	3.9%	4	16	20
15-1199	Computer Occupations, Other	1,110	1,160	4.5%	5	17	22
15-2000	Mathematical Scientists	1,210	1,400	15.7%	20	32	52
15-2011	Actuaries	280	330	17.9%	6	8	14
15-2031	Operations Research Analysts	550	650	18.2%	10	12	22
15-2041	Statisticians	370	410	10.8%	4	12	16
17-0000	Architecture & Engineering Occupations	22,870	25,260	10.5%	244	533	777
17-1000	Architects, Surveyors & Cartographers	1,050	1,160	10.5%	11	24	35
17-1011	Architects	540	610	13.0%	6	13	19
17-1012	Landscape Architects	110	130	18.2%	2	3	5
17-1021	Cartographers & Photogrammetrists	50	60	20.0%	1	1	2
17-1022	Surveyors	350	370	5.7%	2	8	10
17-2000	Engineers	15,540	17,640	13.5%	211	400	611
17-2041	Chemical Engineers	470	500	6.4%	3	11	14
17-2051	Civil Engineers	3,550	4,290	20.8%	74	86	160
17-2071	Electrical Engineers	1,690	1,840	8.9%	15	37	52
17-2072	Electronics Engineers	1,370	1,470	7.3%	10	30	40
17-2081	Environmental Engineers	700	770	10.0%	7	17	24
17-2111	Health & Safety Engineers	250	280	12.0%	4	7	11
17-2112	Industrial Engineers	2,450	2,810	14.7%	36	72	108
17-2121	Marine Engineers & Naval Architects	10	10	0.0%	0	0	0
17-2131	Materials Engineers	340	370	8.8%	3	11	14

**Pittsburgh MSA
Occupational Employment
2012-2022 Long-Term Projections**

SOC Code	Occupational Title	Estimated 2012	Projected 2022	Percent Change	Average Annual Openings		
					Due to Growth ^{1/}	Due to Replace. ^{2/}	Total ^{3/}
17-2141	Mechanical Engineers	2,000	2,190	9.5%	19	68	87
17-2171	Petroleum Engineers	220	270	22.7%	5	6	11
17-2199	Engineers, Other	420	460	9.5%	3	8	11
17-3000	Drafters, Engineering & Mapping Technicians	6,270	6,450	2.9%	23	109	132
17-3011	Architectural & Civil Drafters	1,130	1,080	-4.4%	0	15	15
17-3012	Electrical & Electronics Drafters	490	510	4.1%	2	6	8
17-3013	Mechanical Drafters	1,100	1,130	2.7%	3	15	18
17-3022	Civil Engineering Technicians	600	620	3.3%	2	12	14
17-3023	Electrical & Electronic Engineering Technicians	1,210	1,210	0.0%	0	25	25
17-3024	Electro-Mechanical Technicians	160	170	6.2%	0	3	3
17-3025	Environmental Engineering Technicians	310	370	19.4%	5	6	11
17-3026	Industrial Engineering Technicians	400	440	10.0%	3	8	11
17-3027	Mechanical Engineering Technicians	330	360	9.1%	3	7	10
17-3029	Engineering Technicians, Other	280	290	3.6%	1	6	7
17-3031	Surveying & Mapping Technicians	230	250	8.7%	2	4	6
19-0000	Life, Physical & Social Science Occupations	9,210	10,060	9.2%	86	262	348
19-1000	Life Scientists	1,220	1,340	9.8%	12	30	42
19-1012	Food Scientists & Technologists	40	40	0.0%	0	1	1
19-1021	Biochemists & Biophysicists	140	180	28.6%	4	4	8
19-1022	Microbiologists	70	80	14.3%	0	2	2
19-1023	Zoologists & Wildlife Biologists	50	60	20.0%	0	2	2
19-1029	Biological Scientists, Other	90	100	11.1%	0	3	3
19-1031	Conservation Scientists	90	90	0.0%	0	2	2
19-1041	Epidemiologists	20	30	50.0%	0	0	0
19-1042	Medical Scientists	580	650	12.1%	7	12	19
19-2000	Physical Scientists	2,140	2,360	10.3%	22	58	80
19-2012	Physicists	50	50	0.0%	0	1	1
19-2031	Chemists	750	820	9.3%	7	19	26
19-2041	Environmental Scientists & Specialists	600	660	10.0%	6	18	24
19-2042	Geoscientists	370	420	13.5%	5	11	16
19-2043	Hydrologists	30	30	0.0%	0	1	1
19-2099	Physical Scientists, Other	210	240	14.3%	3	4	7
19-3000	Social Scientists & Related Workers	2,280	2,470	8.3%	18	58	76
19-3011	Economists	90	100	11.1%	1	3	4
19-3022	Survey Researchers	490	530	8.2%	4	7	11

**Pittsburgh MSA
Occupational Employment
2012-2022 Long-Term Projections**

SOC Code	Occupational Title	Estimated 2012	Projected 2022	Percent Change	Average Annual Openings		
					Due to Growth ^{1/}	Due to Replace. ^{2/}	Total ^{3/}
19-3031	Clinical, Counseling & School Psychologists	1,180	1,270	7.6%	9	32	41
19-3039	Psychologists, Other	70	80	14.3%	1	2	3
19-3041	Sociologists	40	60	50.0%	1	1	2
19-3051	Urban & Regional Planners	240	250	4.2%	1	11	12
19-3093	Historians	20	20	0.0%	0	0	0
19-3099	Social Scientists & Related Workers, Other	130	140	7.7%	0	2	2
19-4000	Life, Physical & Social Science Technicians	3,570	3,900	9.2%	33	116	149
19-4011	Agricultural & Food Science Technicians	80	80	0.0%	0	3	3
19-4021	Biological Technicians	930	1,020	9.7%	9	28	37
19-4031	Chemical Technicians	980	1,090	11.2%	11	24	35
19-4041	Geological & Petroleum Technicians	70	70	0.0%	1	2	3
19-4061	Social Science Research Assistants	90	100	11.1%	1	4	5
19-4091	Environmental Science & Protection Technicians	240	260	8.3%	2	9	11
19-4093	Forest & Conservation Technicians	40	40	0.0%	0	2	2
19-4099	Life, Physical & Social Science Technicians, Other	860	910	5.8%	4	34	38
21-0000	Community & Social Services Occupations	27,100	30,430	12.3%	334	627	961
21-1000	Counselors, Social Workers & Other Community & Social Service Specialists	21,970	25,220	14.8%	326	499	825
21-1011	Substance Abuse & Behavioral Disorder Counselors	1,920	2,340	21.9%	41	41	82
21-1012	Educational, Guidance, School & Vocational Counselors	1,960	2,060	5.1%	10	42	52
21-1013	Marriage & Family Therapists	170	190	11.8%	3	4	7
21-1014	Mental Health Counselors	2,720	3,290	21.0%	57	58	115
21-1015	Rehabilitation Counselors	1,350	1,640	21.5%	28	29	57
21-1019	Counselors, Other	120	130	8.3%	1	2	3
21-1021	Child, Family & School Social Workers	2,730	3,010	10.3%	28	58	86
21-1022	Healthcare Social Workers	1,910	2,410	26.2%	49	40	89
21-1023	Mental Health & Substance Abuse Social Workers	2,350	2,700	14.9%	35	50	85
21-1029	Social Workers, Other	180	180	0.0%	0	4	4
21-1091	Health Educators	370	430	16.2%	6	10	16
21-1092	Probation Officers & Correctional Treatment Specialists	520	500	-3.8%	0	14	14
21-1093	Social & Human Service Assistants	5,030	5,680	12.9%	65	132	197
21-1094	Community Health Workers	120	140	16.7%	2	3	5
21-1099	Community & Social Service Specialists, Other	520	540	3.8%	2	14	16
21-2000	Religious Workers	5,130	5,210	1.6%	8	128	136
21-2011	Clergy	2,810	2,870	2.1%	6	57	63
23-0000	Legal Occupations	9,980	11,320	13.4%	135	160	295

**Pittsburgh MSA
Occupational Employment
2012-2022 Long-Term Projections**

SOC Code	Occupational Title	Estimated 2012	Projected 2022	Percent Change	Average Annual Openings		
					Due to Growth ^{1/}	Due to Replace. ^{2/}	Total ^{3/}
23-1000	Lawyers, Judges & Related Workers	7,030	7,930	12.8%	89	113	202
23-1011	Lawyers	6,610	7,500	13.5%	89	106	195
23-1012	Judicial Law Clerks	280	280	0.0%	0	4	4
23-1021	Administrative Law Judges, Adjudicators & Hearing Officers	130	130	0.0%	0	2	2
23-2000	Legal Support Workers	2,940	3,390	15.3%	46	48	94
23-2011	Paralegals & Legal Assistants	1,540	1,880	22.1%	34	25	59
23-2091	Court Reporters	290	330	13.8%	3	5	8
23-2093	Title Examiners, Abstractors & Searchers	990	1,080	9.1%	9	16	25
23-2099	Legal Support Workers, Other	110	110	0.0%	0	2	2
25-0000	Education, Training & Library Occupations	63,410	65,560	3.4%	258	1,328	1,586
25-1000	Postsecondary Teachers	15,040	16,370	8.8%	133	226	359
25-1011	Business Teachers, Postsecondary	700	760	8.6%	7	10	17
25-1021	Computer Science Teachers, Postsecondary	330	360	9.1%	3	5	8
25-1022	Mathematical Science Teachers, Postsecondary	540	580	7.4%	4	8	12
25-1032	Engineering Teachers, Postsecondary	340	360	5.9%	2	5	7
25-1042	Biological Science Teachers, Postsecondary	640	730	14.1%	9	10	19
25-1051	Atmospheric, Earth, Marine & Space Sciences Teachers, Postsecondary	140	150	7.1%	1	2	3
25-1052	Chemistry Teachers, Postsecondary	270	290	7.4%	3	4	7
25-1054	Physics Teachers, Postsecondary	190	200	5.3%	2	3	5
25-1062	Area, Ethnic & Cultural Studies Teachers, Postsecondary	170	180	5.9%	2	2	4
25-1063	Economics Teachers, Postsecondary	190	210	10.5%	2	3	5
25-1065	Political Science Teachers, Postsecondary	230	260	13.0%	2	4	6
25-1066	Psychology Teachers, Postsecondary	460	500	8.7%	4	7	11
25-1067	Sociology Teachers, Postsecondary	280	310	10.7%	2	4	6
25-1069	Social Sciences Teachers, Postsecondary, Other	90	100	11.1%	1	1	2
25-1071	Health Specialties Teachers, Postsecondary	2,940	3,190	8.5%	26	44	70
25-1072	Nursing Instructors & Teachers, Postsecondary	720	750	4.2%	4	11	15
25-1081	Education Teachers, Postsecondary	690	760	10.1%	6	10	16
25-1082	Library Science Teachers, Postsecondary	40	50	25.0%	0	1	1
25-1111	Criminal Justice & Law Enforcement Teachers, Postsecondary	90	100	11.1%	1	1	2
25-1113	Social Work Teachers, Postsecondary	140	160	14.3%	1	2	3
25-1121	Art, Drama & Music Teachers, Postsecondary	560	620	10.7%	6	8	14
25-1122	Communications Teachers, Postsecondary	180	190	5.6%	2	3	5
25-1123	English Language & Literature Teachers, Postsecondary	930	1,000	7.5%	7	14	21
25-1124	Foreign Language & Literature Teachers, Postsecondary	240	270	12.5%	2	4	6

**Pittsburgh MSA
Occupational Employment
2012-2022 Long-Term Projections**

SOC Code	Occupational Title	Estimated 2012	Projected 2022	Percent Change	Average Annual Openings		
					Due to Growth ^{1/}	Due to Replace. ^{2/}	Total ^{3/}
25-1125	History Teachers, Postsecondary	280	310	10.7%	3	4	7
25-1126	Philosophy & Religion Teachers, Postsecondary	310	360	16.1%	5	5	10
25-1193	Recreation & Fitness Studies Teachers, Postsecondary	220	240	9.1%	2	3	5
25-1194	Vocational Education Teachers, Postsecondary	1,140	1,200	5.3%	6	17	23
25-2000	Primary, Secondary & Special Education School Teachers	30,970	31,530	1.8%	88	740	828
25-2011	Preschool Teachers	3,030	3,360	10.9%	32	85	117
25-2012	Kindergarten Teachers	1,120	1,160	3.6%	4	31	35
25-2021	Elementary School Teachers	9,160	9,510	3.8%	35	202	237
25-2022	Middle School Teachers	3,990	4,150	4.0%	16	88	104
25-2023	Career/Technical Education Teachers, Middle School	50	50	0.0%	0	1	1
25-2031	Secondary School Teachers	9,200	8,980	-2.4%	0	250	250
25-2051	Special Education Teachers, Preschool	30	30	0.0%	0	0	0
25-2052	Special Education Teachers, Kindergarten & Elementary School	2,070	2,020	-2.4%	0	35	35
25-2053	Special Education Teachers, Middle School	560	550	-1.8%	0	10	10
25-2054	Special Education Teachers, Secondary School	1,040	1,020	-1.9%	0	18	18
25-3000	Other Teachers & Instructors	7,950	8,020	0.9%	18	136	154
25-3011	Adult Basic & Secondary Education & Literacy Teachers	310	340	9.7%	3	5	8
25-3021	Self-Enrichment Education Teachers	2,290	2,420	5.7%	13	39	52
25-3098	Substitute Teachers	4,270	4,170	-2.3%	0	73	73
25-3099	Teachers & Instructors, Other	1,080	1,100	1.9%	2	18	20
25-4000	Librarians, Curators & Archivists	2,440	2,550	4.5%	11	80	91
25-4011	Archivists	40	40	0.0%	1	1	2
25-4012	Curators	100	110	10.0%	1	2	3
25-4013	Museum Technicians & Conservators	110	120	9.1%	1	2	3
25-4021	Librarians	1,390	1,420	2.2%	2	31	33
25-4031	Library Technicians	810	860	6.2%	6	44	50
25-9000	Other Education, Training & Library Occupations	7,000	7,080	1.1%	9	146	155
25-9011	Audio-Visual & Multimedia Collections Specialists	40	40	0.0%	0	0	0
25-9031	Instructional Coordinators	770	830	7.8%	6	7	13
25-9041	Teacher Assistants	6,120	6,150	0.5%	3	139	142
25-9099	Education, Training & Library Workers, Other	70	70	0.0%	0	1	1
27-0000	Arts, Design, Entertainment, Sports & Media Occupations	16,150	16,920	4.8%	95	371	466
27-1000	Art & Design Workers	3,910	4,030	3.1%	21	102	123
27-1011	Art Directors	320	320	0.0%	0	8	8
27-1012	Craft Artists	30	30	0.0%	0	1	1

**Pittsburgh MSA
Occupational Employment
2012-2022 Long-Term Projections**

SOC Code	Occupational Title	Estimated 2012	Projected 2022	Percent Change	Average Annual Openings		
					Due to Growth ^{1/}	Due to Replace. ^{2/}	Total ^{3/}
27-1013	Fine Artists	90	90	0.0%	0	2	2
27-1014	Multimedia Artists & Animators	230	240	4.3%	1	6	7
27-1019	Artists & Related Workers, Other	30	30	0.0%	0	1	1
27-1021	Commercial & Industrial Designers	420	440	4.8%	2	11	13
27-1023	Floral Designers	520	440	-15.4%	0	14	14
27-1024	Graphic Designers	1,690	1,810	7.1%	12	45	57
27-1025	Interior Designers	240	270	12.5%	3	6	9
27-1026	Merchandise Displayers & Window Trimmers	300	310	3.3%	1	8	9
27-2000	Entertainers & Performers, Sports & Related Workers	4,810	5,030	4.6%	24	141	165
27-2012	Producers & Directors	360	380	5.6%	1	12	13
27-2021	Athletes & Sports Competitors	250	270	8.0%	2	7	9
27-2022	Coaches & Scouts	1,750	1,830	4.6%	9	52	61
27-2031	Dancers	90	90	0.0%	0	2	2
27-2041	Music Directors & Composers	620	600	-3.2%	0	17	17
27-2042	Musicians & Singers	1,020	1,030	1.0%	1	27	28
27-3000	Media & Communication Workers	5,020	5,320	6.0%	37	97	134
27-3011	Radio & Television Announcers	310	300	-3.2%	0	6	6
27-3022	Reporters & Correspondents	360	310	-13.9%	0	12	12
27-3031	Public Relations Specialists	2,270	2,440	7.5%	17	31	48
27-3041	Editors	570	580	1.8%	1	14	15
27-3042	Technical Writers	390	450	15.4%	5	12	17
27-3043	Writers & Authors	680	670	-1.5%	0	15	15
27-3091	Interpreters & Translators	370	510	37.8%	14	5	19
27-3099	Media & Communication Workers, Other	50	60	20.0%	1	1	2
27-4000	Media & Communication Equipment Workers	2,410	2,540	5.4%	13	32	45
27-4011	Audio & Video Equipment Technicians	660	760	15.2%	10	12	22
27-4012	Broadcast Technicians	150	150	0.0%	0	3	3
27-4014	Sound Engineering Technicians	100	90	-10.0%	0	2	2
27-4021	Photographers	1,170	1,200	2.6%	3	12	15
27-4031	Camera Operators: TV, Video & Motion Picture	150	150	0.0%	0	1	1
27-4032	Film & Video Editors	100	100	0.0%	0	1	1
29-0000	Healthcare Practitioners & Technical Occupations	73,530	85,240	15.9%	1,171	1,505	2,676
29-1000	Health Diagnosing & Treating Practitioners	46,940	54,230	15.5%	729	954	1,683
29-1011	Chiropractors	490	590	20.4%	9	10	19
29-1021	Dentists, General	820	860	4.9%	3	20	23

**Pittsburgh MSA
Occupational Employment
2012-2022 Long-Term Projections**

SOC Code	Occupational Title	Estimated 2012	Projected 2022	Percent Change	Average Annual Openings		
					Due to Growth ^{1/}	Due to Replace. ^{2/}	Total ^{3/}
29-1023	Orthodontists	20	20	0.0%	0	0	0
29-1029	Dentists, Other Specialists	30	30	0.0%	0	1	1
29-1031	Dietitians & Nutritionists	790	880	11.4%	10	9	19
29-1041	Optometrists	470	570	21.3%	10	14	24
29-1051	Pharmacists	2,350	2,610	11.1%	26	56	82
29-1062	Family & General Practitioners	930	970	4.3%	4	23	27
29-1064	Obstetricians & Gynecologists	40	40	0.0%	0	1	1
29-1066	Psychiatrists	250	280	12.0%	3	6	9
29-1067	Surgeons	310	340	9.7%	4	8	12
29-1069	Physicians & Surgeons, Other	3,960	4,430	11.9%	46	99	145
29-1071	Physician Assistants	1,030	1,170	13.6%	14	19	33
29-1081	Podiatrists	140	180	28.6%	4	3	7
29-1122	Occupational Therapists	1,420	1,750	23.2%	33	19	52
29-1123	Physical Therapists	2,120	2,560	20.8%	43	52	95
29-1124	Radiation Therapists	80	90	12.5%	1	2	3
29-1125	Recreational Therapists	170	180	5.9%	1	3	4
29-1126	Respiratory Therapists	1,230	1,420	15.4%	19	18	37
29-1127	Speech-Language Pathologists	860	1,090	26.7%	23	13	36
29-1128	Exercise Physiologists	20	20	0.0%	0	0	0
29-1129	Therapists, Other	70	90	28.6%	2	1	3
29-1131	Veterinarians	430	470	9.3%	4	14	18
29-1141	Registered Nurses	27,310	31,790	16.4%	449	529	978
29-1151	Nurse Anesthetists	380	420	10.5%	5	7	12
29-1171	Nurse Practitioners	520	630	21.2%	11	10	21
29-1199	Health Diagnosing & Treating Practitioners, Other	190	200	5.3%	0	4	4
29-2000	Health Technologists & Technicians	25,580	29,930	17.0%	435	523	958
29-2011	Medical & Clinical Laboratory Technologists	1,830	1,950	6.6%	11	48	59
29-2012	Medical & Clinical Laboratory Technicians	1,730	1,840	6.4%	11	45	56
29-2021	Dental Hygienists	1,640	1,910	16.5%	26	42	68
29-2031	Cardiovascular Technologists & Technicians	530	660	24.5%	13	7	20
29-2032	Diagnostic Medical Sonographers	460	620	34.8%	16	6	22
29-2033	Nuclear Medicine Technologists	240	270	12.5%	3	3	6
29-2034	Radiologic Technologists	2,220	2,550	14.9%	33	31	64
29-2035	Magnetic Resonance Imaging Technologists	180	200	11.1%	2	2	4
29-2041	Emergency Medical Technicians & Paramedics	3,180	3,850	21.1%	67	87	154

**Pittsburgh MSA
Occupational Employment
2012-2022 Long-Term Projections**

SOC Code	Occupational Title	Estimated 2012	Projected 2022	Percent Change	Average Annual Openings		
					Due to Growth ^{1/}	Due to Replace. ^{2/}	Total ^{3/}
29-2051	Dietetic Technicians	190	210	10.5%	3	2	5
29-2052	Pharmacy Technicians	2,890	3,250	12.5%	37	28	65
29-2053	Psychiatric Technicians	420	440	4.8%	2	4	6
29-2054	Respiratory Therapy Technicians	100	110	10.0%	1	1	2
29-2055	Surgical Technologists	770	960	24.7%	19	8	27
29-2056	Veterinary Technologists & Technicians	620	710	14.5%	9	6	15
29-2061	Licensed Practical & Licensed Vocational Nurses	5,390	6,640	23.2%	125	132	257
29-2071	Medical Records & Health Information Technicians	1,380	1,600	15.9%	22	36	58
29-2081	Opticians, Dispensing	760	930	22.4%	17	22	39
29-2091	Orthotists & Prosthetists	130	170	30.8%	3	1	4
29-2099	Health Technologists & Technicians, Other	680	790	16.2%	11	7	18
29-9000	Other Healthcare Practitioners & Technical Occupations	1,020	1,090	6.9%	7	28	35
29-9011	Occupational Health & Safety Specialists	470	500	6.4%	2	13	15
29-9091	Athletic Trainers	150	170	13.3%	2	4	6
29-9099	Healthcare Practitioners & Technical Workers, Other	290	320	10.3%	3	8	11
31-0000	Healthcare Support Occupations	39,880	47,400	18.9%	753	770	1,523
31-1000	Nursing, Psychiatric & Home Health Aides	25,790	30,870	19.7%	508	490	998
31-1011	Home Health Aides	11,810	15,740	33.3%	393	225	618
31-1013	Psychiatric Aides	500	510	2.0%	0	10	10
31-1014	Nursing Assistants	12,600	13,680	8.6%	108	240	348
31-1015	Orderlies	870	940	8.0%	6	17	23
31-2000	Occupational & Physical Therapist Assistants & Aides	2,180	2,980	36.7%	80	50	130
31-2011	Occupational Therapy Assistants	700	930	32.9%	23	18	41
31-2012	Occupational Therapy Aides	60	90	50.0%	3	2	5
31-2021	Physical Therapist Assistants	920	1,230	33.7%	31	20	51
31-2022	Physical Therapist Aides	500	730	46.0%	24	11	35
31-9000	Other Healthcare Support Occupations	11,920	13,550	13.7%	165	229	394
31-9011	Massage Therapists	350	410	17.1%	7	4	11
31-9091	Dental Assistants	2,530	2,760	9.1%	23	52	75
31-9092	Medical Assistants	4,770	5,730	20.1%	96	91	187
31-9093	Medical Equipment Preparers	450	510	13.3%	5	9	14
31-9094	Medical Transcriptionists	1,150	1,130	-1.7%	0	22	22
31-9095	Pharmacy Aides	700	750	7.1%	5	13	18
31-9096	Veterinary Assistants & Laboratory Animal Caretakers	350	360	2.9%	1	7	8
31-9097	Phlebotomists	1,230	1,470	19.5%	24	24	48

**Pittsburgh MSA
Occupational Employment
2012-2022 Long-Term Projections**

SOC Code	Occupational Title	Estimated 2012	Projected 2022	Percent Change	Average Annual Openings		
					Due to Growth ^{1/}	Due to Replace. ^{2/}	Total ^{3/}
31-9099	Healthcare Support Workers, Other	390	430	10.3%	4	8	12
33-0000	Protective Service Occupations	23,440	24,680	5.3%	132	567	699
33-1000	Supervisors - Protective Service Workers	960	990	3.1%	3	29	32
33-1011	Supervisors - Correctional Officers	40	40	0.0%	0	2	2
33-1012	Supervisors - Police & Detectives	420	420	0.0%	0	12	12
33-1021	Supervisors - Fire Fighting & Prevention	190	200	5.3%	0	8	8
33-1099	Supervisors - Protective Service Workers, Other	310	330	6.5%	2	7	9
33-2000	Fire Fighting & Prevention Workers	800	810	1.2%	1	22	23
33-3000	Law Enforcement Workers	7,640	7,780	1.8%	15	226	241
33-3012	Correctional Officers & Jailers	1,760	1,780	1.1%	3	47	50
33-3021	Detectives & Criminal Investigators	490	500	2.0%	2	11	13
33-3041	Parking Enforcement Workers	40	40	0.0%	0	1	1
33-3051	Police & Sheriff's Patrol Officers	5,200	5,300	1.9%	10	163	173
33-3052	Transit & Railroad Police	90	90	0.0%	0	2	2
33-9000	Other Protective Service Workers	14,040	15,100	7.5%	113	290	403
33-9021	Private Detectives & Investigators	460	500	8.7%	3	13	16
33-9032	Security Guards	10,510	11,490	9.3%	97	161	258
33-9091	Crossing Guards	1,040	960	-7.7%	0	16	16
33-9092	Lifeguards, Ski Patrol & Other Recreational Protective Service	880	930	5.7%	5	60	65
33-9093	Transportation Security Screeners	240	280	16.7%	3	6	9
33-9099	Protective Service Workers, Other	380	390	2.6%	1	26	27
35-0000	Food Preparation & Serving Related Occupations	101,030	108,330	7.2%	740	3,839	4,579
35-1000	Supervisors, Food Preparation & Serving Workers	7,610	8,310	9.2%	70	199	269
35-1011	Chefs & Head Cooks	1,340	1,360	1.5%	2	22	24
35-1012	Supervisors - Food Preparation & Serving Workers	6,270	6,950	10.8%	68	177	245
35-2000	Cooks & Food Preparation Workers	22,530	23,810	5.7%	133	510	643
35-2011	Cooks, Fast Food	2,820	2,760	-2.1%	0	56	56
35-2012	Cooks, Institution & Cafeteria	3,760	4,110	9.3%	34	74	108
35-2014	Cooks, Restaurant	7,300	8,160	11.8%	86	144	230
35-2015	Cooks, Short Order	1,200	1,250	4.2%	4	24	28
35-2021	Food Preparation Workers	7,360	7,440	1.1%	8	211	219
35-3000	Food & Beverage Serving Workers	57,980	62,720	8.2%	480	2,430	2,910
35-3011	Bartenders	6,830	7,370	7.9%	54	252	306
35-3021	Combined Food Preparation & Serving Workers	26,850	29,980	11.7%	313	1,025	1,338
35-3022	Counter Attendants, Cafeteria, Food Concession & Coffee Shop	2,080	2,030	-2.4%	0	126	126

**Pittsburgh MSA
Occupational Employment
2012-2022 Long-Term Projections**

SOC Code	Occupational Title	Estimated 2012	Projected 2022	Percent Change	Average Annual Openings		
					Due to Growth ^{1/}	Due to Replace. ^{2/}	Total ^{3/}
35-3031	Waiters & Waitresses	19,940	20,540	3.0%	60	959	1,019
35-3041	Food Servers, Nonrestaurant	2,280	2,810	23.2%	53	67	120
35-9000	Other Food Preparation & Serving Related Workers	12,920	13,490	4.4%	58	700	758
35-9011	Dining Room & Cafeteria Attendants & Bartender Helpers	3,200	3,430	7.2%	23	140	163
35-9021	Dishwashers	5,440	5,620	3.3%	18	239	257
35-9031	Hosts & Hostesses: Restaurant, Lounge & Coffee Shop	4,210	4,380	4.0%	16	317	333
35-9099	Food Preparation & Serving Related Workers, Other	60	70	16.7%	0	3	3
37-0000	Building & Grounds Cleaning & Maintenance Occupations	37,560	40,020	6.5%	246	769	1,015
37-1000	Supervisors of Building & Grounds Cleaning & Maintenance Workers	2,130	2,290	7.5%	16	39	55
37-1011	Supervisors - Housekeeping & Janitorial Workers	1,200	1,300	8.3%	10	29	39
37-1012	Supervisors - Landscaping & Groundskeeping Workers	930	990	6.5%	6	10	16
37-2000	Building Cleaning & Pest Control Workers	27,420	29,170	6.4%	175	528	703
37-2011	Janitors & Cleaners	17,110	17,940	4.9%	83	322	405
37-2012	Maids & Housekeeping Cleaners	9,980	10,880	9.0%	90	198	288
37-3000	Grounds Maintenance Workers	8,010	8,560	6.9%	55	202	257
37-3011	Landscaping & Groundskeeping Workers	7,550	8,060	6.8%	51	190	241
37-3013	Tree Trimmers & Pruners	230	260	13.0%	3	6	9
39-0000	Personal Care & Service Occupations	46,390	53,580	15.5%	720	1,021	1,741
39-1000	Supervisors, Personal Care & Service Workers	1,700	1,840	8.2%	14	32	46
39-1021	Supervisors - Personal Service Workers	1,530	1,670	9.2%	14	28	42
39-2000	Animal Care & Service Workers	1,710	1,930	12.9%	22	27	49
39-2011	Animal Trainers	210	220	4.8%	1	9	10
39-2021	Nonfarm Animal Caretakers	1,500	1,710	14.0%	21	18	39
39-3000	Entertainment Attendants & Related Workers	5,280	5,730	8.5%	46	239	285
39-3021	Motion Picture Projectionists	50	40	-20.0%	0	2	2
39-3031	Ushers, Lobby Attendants & Ticket Takers	1,060	1,140	7.5%	8	56	64
39-3091	Amusement & Recreation Attendants	2,850	3,090	8.4%	24	143	167
39-3092	Costume Attendants	20	20	0.0%	0	1	1
39-3093	Locker Room, Coatroom & Dressing Room Attendants	420	460	9.5%	4	21	25
39-4000	Funeral Service Workers	850	920	8.2%	8	18	26
39-4021	Funeral Attendants	600	640	6.7%	4	13	17
39-5000	Personal Appearance Workers	10,050	11,260	12.0%	122	218	340
39-5012	Hairdressers, Hairstylists & Cosmetologists	8,270	9,140	10.5%	88	194	282
39-5091	Makeup Artists, Theatrical & Performance	20	20	0.0%	0	0	0
39-5092	Manicurists & Pedicurists	560	640	14.3%	8	5	13

**Pittsburgh MSA
Occupational Employment
2012-2022 Long-Term Projections**

SOC Code	Occupational Title	Estimated 2012	Projected 2022	Percent Change	Average Annual Openings		
					Due to Growth ^{1/}	Due to Replace. ^{2/}	Total ^{3/}
39-5093	Shampooers	80	80	0.0%	0	1	1
39-6000	Transportation, Tourism & Lodging Attendants	180	200	11.1%	2	4	6
39-6011	Baggage Porters & Bellhops	120	130	8.3%	0	3	3
39-6012	Concierges	60	70	16.7%	1	1	2
39-7000	Tour & Travel Guides	430	470	9.3%	4	21	25
39-9000	Other Personal Care & Service Workers	26,200	31,240	19.2%	504	462	966
39-9011	Childcare Workers	9,140	9,800	7.2%	66	269	335
39-9021	Personal Care Aides	11,670	15,470	32.6%	380	84	464
39-9031	Fitness Trainers & Aerobics Instructors	2,020	2,200	8.9%	18	24	42
39-9032	Recreation Workers	1,840	2,070	12.5%	23	22	45
39-9041	Residential Advisors	1,410	1,580	12.1%	17	61	78
39-9099	Personal Care & Service Workers, Other	120	120	0.0%	0	3	3
41-0000	Sales & Related Occupations	124,750	127,050	1.8%	332	3,824	4,156
41-1000	Supervisors - Sales Workers	13,130	13,030	-0.8%	0	260	260
41-1011	Supervisors - Retail Sales Workers	10,310	10,310	0.0%	0	224	224
41-1012	Supervisors - Non-Retail Sales Workers	2,820	2,720	-3.5%	0	36	36
41-2000	Retail Sales Workers	74,980	76,140	1.5%	180	2,796	2,976
41-2011	Cashiers	30,460	29,820	-2.1%	0	1,317	1,317
41-2021	Counter & Rental Clerks	3,590	3,910	8.9%	32	92	124
41-2031	Retail Salespersons	39,050	40,410	3.5%	135	1,336	1,471
41-3000	Sales Representatives, Services	13,740	14,220	3.5%	56	348	404
41-3011	Advertising Sales Agents	990	1,000	1.0%	1	30	31
41-3021	Insurance Sales Agents	3,840	4,050	5.5%	22	90	112
41-3031	Securities, Commodities & Financial Services Sales Agents	2,810	2,920	3.9%	11	66	77
41-3041	Travel Agents	440	370	-15.9%	0	7	7
41-3099	Sales Representatives, Other Services	5,660	5,880	3.9%	22	154	176
41-4000	Sales Representatives, Wholesale & Manufacturing	15,250	15,950	4.6%	70	297	367
41-4011	Sales Representatives, Technical & Scientific Products	2,450	2,610	6.5%	16	48	64
41-4012	Sales Representatives	12,800	13,340	4.2%	54	250	304
41-9000	Other Sales & Related Workers	7,650	7,710	0.8%	26	123	149
41-9011	Demonstrators & Product Promoters	470	520	10.6%	5	13	18
41-9022	Real Estate Sales Agents	2,600	2,730	5.0%	12	24	36
41-9031	Sales Engineers	790	790	0.0%	0	14	14
41-9041	Telemarketers	2,680	2,500	-6.7%	0	56	56
41-9099	Sales & Related Workers, Other	540	600	11.1%	6	11	17

**Pittsburgh MSA
Occupational Employment
2012-2022 Long-Term Projections**

SOC Code	Occupational Title	Estimated 2012	Projected 2022	Percent Change	Average Annual Openings		
					Due to Growth ^{1/}	Due to Replace. ^{2/}	Total ^{3/}
43-0000	Office & Administrative Support Occupations	193,900	198,860	2.6%	987	4,164	5,151
43-1000	Supervisors - Office & Administrative Support Workers	11,380	12,140	6.7%	75	270	345
43-1011	Supervisors - Office & Administrative Support Workers	11,380	12,140	6.7%	75	270	345
43-2000	Communications Equipment Operators	1,420	1,170	-17.6%	0	26	26
43-2011	Switchboard Operators	1,400	1,150	-17.9%	0	26	26
43-3000	Financial Clerks	31,050	32,900	6.0%	227	607	834
43-3011	Bill & Account Collectors	2,900	3,120	7.6%	22	82	104
43-3021	Billing & Posting Clerks	5,390	6,030	11.9%	64	99	163
43-3031	Bookkeeping, Accounting & Auditing Clerks	15,250	16,420	7.7%	117	140	257
43-3051	Payroll & Timekeeping Clerks	1,880	2,030	8.0%	16	41	57
43-3061	Procurement Clerks	550	580	5.5%	3	20	23
43-3071	Tellers	4,470	4,060	-9.2%	0	208	208
43-4000	Information & Record Clerks	48,790	50,820	4.2%	264	1,275	1,539
43-4011	Brokerage Clerks	660	490	-25.8%	0	17	17
43-4021	Correspondence Clerks	130	130	0.0%	0	3	3
43-4031	Court, Municipal & License Clerks	350	380	8.6%	2	5	7
43-4041	Credit Authorizers, Checkers & Clerks	430	400	-7.0%	0	5	5
43-4051	Customer Service Representatives	23,830	25,600	7.4%	178	648	826
43-4061	Eligibility Interviewers, Government Programs	1,550	1,620	4.5%	7	31	38
43-4071	File Clerks	1,580	1,470	-7.0%	0	36	36
43-4081	Hotel, Motel & Resort Desk Clerks	1,440	1,530	6.2%	9	68	77
43-4111	Interviewers	1,780	1,780	0.0%	0	34	34
43-4121	Library Assistants, Clerical	980	990	1.0%	1	43	44
43-4131	Loan Interviewers & Clerks	1,660	1,780	7.2%	12	11	23
43-4141	New Accounts Clerks	410	350	-14.6%	0	11	11
43-4151	Order Clerks	2,380	2,300	-3.4%	0	63	63
43-4161	Human Resources Assistants	1,590	1,550	-2.5%	0	40	40
43-4171	Receptionists & Information Clerks	8,730	9,270	6.2%	54	235	289
43-4181	Reservation & Transportation Ticket Agents & Travel Clerks	410	380	-7.3%	0	6	6
43-4199	Information & Record Clerks, Other	880	800	-9.1%	0	19	19
43-5000	Material Recording, Scheduling, Dispatching & Distributing Workers	30,320	28,550	-5.8%	41	826	867
43-5011	Cargo & Freight Agents	900	1,020	13.3%	11	24	35
43-5021	Couriers & Messengers	530	490	-7.5%	0	7	7
43-5031	Police, Fire & Ambulance Dispatchers	490	500	2.0%	2	14	16
43-5032	Dispatchers	1,310	1,440	9.9%	13	38	51

**Pittsburgh MSA
Occupational Employment
2012-2022 Long-Term Projections**

SOC Code	Occupational Title	Estimated 2012	Projected 2022	Percent Change	Average Annual Openings		
					Due to Growth ^{1/}	Due to Replace. ^{2/}	Total ^{3/}
43-5041	Meter Readers, Utilities	320	260	-18.8%	0	8	8
43-5051	Postal Service Clerks	670	460	-31.3%	0	10	10
43-5052	Postal Service Mail Carriers	2,590	1,920	-25.9%	0	90	90
43-5053	Postal Service Mail Sorters, Processors & Processing Machine Operators	1,830	1,300	-29.0%	0	13	13
43-5061	Production, Planning & Expediting Clerks	2,370	2,480	4.6%	10	59	69
43-5071	Shipping, Receiving & Traffic Clerks	4,500	4,480	-0.4%	0	118	118
43-5081	Stock Clerks & Order Fillers	14,400	13,740	-4.6%	0	435	435
43-5111	Weighers, Measurers, Checkers & Samplers, Recordkeeping	420	470	11.9%	5	9	14
43-6000	Secretaries & Administrative Assistants	34,090	37,160	9.0%	322	410	732
43-6011	Executive Secretaries & Executive Administrative Assistants	5,850	5,700	-2.6%	0	70	70
43-6012	Legal Secretaries	2,030	2,040	0.5%	1	24	25
43-6013	Medical Secretaries	4,430	5,680	28.2%	125	53	178
43-6014	Secretaries	21,780	23,740	9.0%	196	262	458
43-9000	Other Office & Administrative Support Workers	36,850	36,120	-2.0%	58	750	808
43-9011	Computer Operators	620	510	-17.7%	0	6	6
43-9021	Data Entry Keyers	1,990	1,440	-27.6%	0	24	24
43-9022	Word Processors & Typists	1,290	950	-26.4%	0	5	5
43-9031	Desktop Publishers	130	130	0.0%	0	2	2
43-9041	Insurance Claims & Policy Processing Clerks	2,210	2,320	5.0%	12	58	70
43-9051	Mail Clerks & Mail Machine Operators	1,600	1,430	-10.6%	0	37	37
43-9061	Office Clerks, General	27,160	27,570	1.5%	41	571	612
43-9071	Office Machine Operators	730	600	-17.8%	0	17	17
43-9081	Proofreaders & Copy Markers	150	160	6.7%	1	3	4
43-9111	Statistical Assistants	140	160	14.3%	1	4	5
43-9199	Office & Administrative Support Workers, Other	840	870	3.6%	3	23	26
45-0000	Farming, Fishing & Forestry Occupations	6,150	6,010	-2.3%	4	180	184
45-1000	Supervisors - Farming, Fishing & Forestry Workers	310	310	0.0%	0	6	6
45-1011	Farm & Forestry Worker Supervisors	310	310	0.0%	0	6	6
45-2000	Agricultural Workers	5,710	5,590	-2.1%	4	171	175
45-2011	Agricultural Inspectors	60	60	0.0%	0	2	2
45-2091	Agricultural Equipment Operators	370	390	5.4%	2	11	13
45-2092	Farmworkers & Laborers, Crop, Nursery & Greenhouse	4,460	4,310	-3.4%	0	135	135
45-2093	Farmworkers, Farm, Ranch & Aquacultural Animals	590	610	3.4%	1	18	19
45-2099	Agricultural Workers, Other	70	80	14.3%	0	2	2
45-3011	Fishers & Related Fishing Workers	10	10	0.0%	0	0	0

**Pittsburgh MSA
Occupational Employment
2012-2022 Long-Term Projections**

SOC Code	Occupational Title	Estimated 2012	Projected 2022	Percent Change	Average Annual Openings		
					Due to Growth ^{1/}	Due to Replace. ^{2/}	Total ^{3/}
45-4023	Log Graders & Scalers	10	10	0.0%	0	0	0
47-0000	Construction & Extraction Occupations	58,970	66,740	13.2%	780	1,014	1,794
47-1000	Supervisors - Construction & Extraction Workers	4,540	5,200	14.5%	65	49	114
47-1011	Supervisors - Construction Trades & Extraction Workers	4,540	5,200	14.5%	65	49	114
47-2000	Construction Trades Workers	45,950	52,320	13.9%	637	780	1,417
47-2011	Boilermakers	110	140	27.3%	3	5	8
47-2021	Brickmasons & Blockmasons	900	1,130	25.6%	22	10	32
47-2031	Carpenters	10,670	12,200	14.3%	152	132	284
47-2041	Carpet Installers	640	660	3.1%	2	12	14
47-2042	Floor Layers	190	210	10.5%	2	3	5
47-2044	Tile & Marble Setters	110	120	9.1%	1	2	3
47-2051	Cement Masons & Concrete Finishers	1,310	1,510	15.3%	20	15	35
47-2061	Construction Laborers	10,170	11,940	17.4%	176	218	394
47-2071	Paving, Surfacing & Tamping Equipment Operators	810	960	18.5%	15	12	27
47-2072	Pile-Driver Operators	30	40	33.3%	1	0	1
47-2073	Operating Engineers & Other Construction Equipment Operators	4,850	5,400	11.3%	54	108	162
47-2082	Tapers	140	160	14.3%	1	1	2
47-2111	Electricians	4,720	5,300	12.3%	58	89	147
47-2121	Glaziers	400	420	5.0%	3	9	12
47-2132	Insulation Workers, Mechanical	30	30	0.0%	1	0	1
47-2141	Painters, Construction & Maintenance	2,240	2,530	12.9%	30	34	64
47-2142	Paperhangers	30	30	0.0%	0	0	0
47-2151	Pipelayers	310	360	16.1%	6	4	10
47-2152	Plumbers, Pipefitters & Steamfitters	5,020	5,700	13.5%	68	62	130
47-2171	Reinforcing Iron & Rebar Workers	90	100	11.1%	1	2	3
47-2181	Roofers	1,150	1,160	0.9%	1	24	25
47-2211	Sheet Metal Workers	840	940	11.9%	10	16	26
47-2221	Structural Iron & Steel Workers	480	520	8.3%	4	16	20
47-3000	Helpers, Construction Trades	1,100	1,310	19.1%	21	17	38
47-3011	Helpers--Brick, Block, Stonemasons, Tile & Marble Setters	300	380	26.7%	8	5	13
47-3012	Helpers--Carpenters	220	240	9.1%	3	3	6
47-3013	Helpers--Electricians	120	160	33.3%	3	2	5
47-3015	Helpers--Pipelayers, Plumbers, Pipefitters & Steamfitters	350	420	20.0%	6	6	12
47-3019	Helpers, Construction Trades, Other	30	30	0.0%	0	0	0
47-4000	Other Construction & Related Workers	4,980	5,350	7.4%	37	94	131

**Pittsburgh MSA
Occupational Employment
2012-2022 Long-Term Projections**

SOC Code	Occupational Title	Estimated 2012	Projected 2022	Percent Change	Average Annual Openings		
					Due to Growth ^{1/}	Due to Replace. ^{2/}	Total ^{3/}
47-4011	Construction & Building Inspectors	1,460	1,630	11.6%	17	34	51
47-4021	Elevator Installers & Repairers	130	150	15.4%	2	2	4
47-4041	Hazardous Materials Removal Workers	500	540	8.0%	4	11	15
47-4051	Highway Maintenance Workers	2,220	2,260	1.8%	5	33	38
47-4071	Septic Tank Servicers & Sewer Pipe Cleaners	120	140	16.7%	2	2	4
47-5000	Extraction Workers	2,390	2,560	7.1%	20	74	94
47-5012	Rotary Drill Operators, Oil & Gas	160	180	12.5%	2	6	8
47-5013	Service Unit Operators, Oil, Gas & Mining	310	340	9.7%	3	13	16
47-5031	Explosives Workers, Ordnance Handling Experts & Blasters	20	20	0.0%	0	1	1
47-5042	Mine Cutting & Channeling Machine Operators	160	160	0.0%	0	3	3
47-5071	Roustabouts, Oil & Gas	440	480	9.1%	4	12	16
49-0000	Installation, Maintenance & Repair Occupations	46,890	50,130	6.9%	339	1,092	1,431
49-1000	Supervisors - Installation, Maintenance & Repair Workers	2,900	3,030	4.5%	14	78	92
49-1011	Supervisors - Mechanics, Installers & Repairers	2,900	3,030	4.5%	14	78	92
49-2000	Electrical & Electronic Equipment Mechanics, Installers & Repairers	3,840	3,840	0.0%	9	74	83
49-2011	Computer, Automated Teller & Office Machine Repairers	910	890	-2.2%	0	19	19
49-2022	Telecommunications Equipment Installers & Repairers	830	810	-2.4%	0	11	11
49-2091	Avionics Technicians	60	60	0.0%	0	1	1
49-2092	Electric Motor, Power Tool & Related Repairers	190	180	-5.3%	0	3	3
49-2094	Electrical & Electronics Repairers, Commercial & Industrial Equipment	560	540	-3.6%	0	11	11
49-2095	Electrical & Electronics Repairers, Powerhouse, Substation & Relay	230	240	4.3%	1	5	6
49-2096	Electronic Equipment Installers & Repairers, Motor Vehicles	40	30	-25.0%	0	0	0
49-2098	Security & Fire Alarm Systems Installers	720	790	9.7%	7	15	22
49-3000	Vehicle & Mobile Equipment Mechanics, Installers	15,040	15,940	6.0%	91	376	467
49-3021	Automotive Body & Related Repairers	1,400	1,490	6.4%	10	27	37
49-3022	Automotive Glass Installers & Repairers	480	520	8.3%	4	12	16
49-3023	Automotive Service Technicians & Mechanics	7,810	8,230	5.4%	42	198	240
49-3031	Bus & Truck Mechanics & Diesel Engine Specialists	1,860	2,030	9.1%	16	40	56
49-3041	Farm Equipment Mechanics & Service Technicians	140	140	0.0%	0	4	4
49-3042	Mobile Heavy Equipment Mechanics	1,080	1,180	9.3%	10	31	41
49-3051	Motorboat Mechanics & Service Technicians	10	10	0.0%	0	0	0
49-3052	Motorcycle Mechanics	130	130	0.0%	0	3	3
49-3093	Tire Repairers & Changers	590	620	5.1%	3	20	23
49-9000	Other Installation, Maintenance & Repair Occupations	25,110	27,310	8.8%	225	563	788
49-9012	Control & Valve Installers & Repairers	170	170	0.0%	0	6	6

**Pittsburgh MSA
Occupational Employment
2012-2022 Long-Term Projections**

SOC Code	Occupational Title	Estimated 2012	Projected 2022	Percent Change	Average Annual Openings		
					Due to Growth ^{1/}	Due to Replace. ^{2/}	Total ^{3/}
49-9021	Heating, A/C & Refrigeration Mechanics & Installers	2,200	2,510	14.1%	31	56	87
49-9031	Home Appliance Repairers	300	290	-3.3%	0	9	9
49-9041	Industrial Machinery Mechanics	2,810	3,530	25.6%	72	81	153
49-9043	Maintenance Workers, Machinery	500	560	12.0%	6	6	12
49-9044	Millwrights	200	230	15.0%	3	3	6
49-9051	Electrical Power-Line Installers & Repairers	680	770	13.2%	9	24	33
49-9052	Telecommunications Line Installers & Repairers	1,160	1,160	0.0%	0	28	28
49-9062	Medical Equipment Repairers	650	770	18.5%	12	18	30
49-9063	Musical Instrument Repairers & Tuners	280	270	-3.6%	0	8	8
49-9069	Precision Instrument & Equipment Repairers, Other	100	100	0.0%	0	3	3
49-9071	Maintenance & Repair Workers, General	13,470	14,250	5.8%	77	259	336
49-9091	Coin, Vending & Amusement Machine Servicers & Repairers	450	440	-2.2%	0	4	4
49-9094	Locksmiths & Safe Repairers	70	70	0.0%	0	2	2
49-9096	Riggers	100	140	40.0%	3	2	5
49-9097	Signal & Track Switch Repairers	60	50	-16.7%	0	1	1
49-9098	Helpers--Installation, Maintenance & Repair Workers	930	1,000	7.5%	8	28	36
49-9099	Installation, Maintenance & Repair Workers, Other	490	520	6.1%	3	8	11
51-0000	Production Occupations	67,890	69,090	1.8%	274	1,407	1,681
51-1000	Supervisors - Production Workers	4,770	4,830	1.3%	5	67	72
51-1011	Supervisors - Production & Operating Workers	4,770	4,830	1.3%	5	67	72
51-2000	Assemblers & Fabricators	11,720	12,030	2.6%	44	196	240
51-2021	Coil Winders, Tapers & Finishers	160	180	12.5%	1	2	3
51-2022	Electrical & Electronic Equipment Assemblers	2,170	2,050	-5.5%	0	26	26
51-2023	Electromechanical Equipment Assemblers	1,080	1,130	4.6%	4	13	17
51-2031	Engine & Other Machine Assemblers	110	120	9.1%	1	2	3
51-2041	Structural Metal Fabricators & Fitters	970	1,050	8.2%	7	39	46
51-2092	Team Assemblers	6,520	6,760	3.7%	24	103	127
51-2099	Assemblers & Fabricators, Other	650	700	7.7%	6	10	16
51-3000	Food Processing Workers	4,220	4,280	1.4%	10	108	118
51-3011	Bakers	1,700	1,740	2.4%	4	41	45
51-3021	Butchers & Meat Cutters	1,190	1,240	4.2%	4	29	33
51-3022	Meat, Poultry & Fish Cutters & Trimmers	290	290	0.0%	0	7	7
51-3023	Slaughterers & Meat Packers	210	200	-4.8%	0	5	5
51-3092	Food Batchmakers	490	480	-2.0%	0	16	16
51-3093	Food Cooking Machine Operators	180	180	0.0%	0	5	5

**Pittsburgh MSA
Occupational Employment
2012-2022 Long-Term Projections**

SOC Code	Occupational Title	Estimated 2012	Projected 2022	Percent Change	Average Annual Openings		
					Due to Growth ^{1/}	Due to Replace. ^{2/}	Total ^{3/}
51-4000	Metal Workers & Plastic Workers	20,420	20,670	1.2%	94	398	492
51-4011	Computer-Controlled Machine Tool Operators	1,220	1,410	15.6%	20	34	54
51-4012	Computer Numerically Controlled Machine Tool Programmers	240	310	29.2%	8	7	15
51-4021	Extruding & Drawing Machine Operators	760	710	-6.6%	0	15	15
51-4022	Forging Machine Operators	310	280	-9.7%	0	6	6
51-4023	Rolling Machine Operators	1,240	1,190	-4.0%	0	24	24
51-4031	Cutting, Punching & Press Machine Operators	1,650	1,570	-4.8%	0	14	14
51-4032	Drilling & Boring Machine Tool Operators	470	380	-19.1%	0	9	9
51-4033	Grinding, Lapping, Polishing & Buffing Machine Tool Operators	1,290	1,210	-6.2%	0	29	29
51-4034	Lathe & Turning Machine Tool Operators	390	340	-12.8%	0	7	7
51-4035	Milling & Planing Machine Operators	310	300	-3.2%	0	6	6
51-4041	Machinists	4,000	4,420	10.5%	42	92	134
51-4051	Metal-Refining Furnace Operators	830	810	-2.4%	0	11	11
51-4052	Pourers & Casters, Metal	350	320	-8.6%	0	4	4
51-4071	Foundry Mold & Coremakers	190	180	-5.3%	0	2	2
51-4072	Molding, Coremaking & Casting Machine Operators	1,070	990	-7.5%	0	13	13
51-4081	Multiple Machine Tool Operators	970	890	-8.2%	0	19	19
51-4111	Tool & Die Makers	650	650	0.0%	0	4	4
51-4121	Welders, Cutters, Solderers & Brazers	3,020	3,190	5.6%	17	74	91
51-4122	Welding, Soldering & Brazing Machine Operators	240	290	20.8%	5	6	11
51-4191	Heat Treating Equipment Operators	400	410	2.5%	1	8	9
51-4192	Layout Workers	30	30	0.0%	0	0	0
51-4193	Plating & Coating Machine Operators	260	260	0.0%	0	5	5
51-4194	Tool Grinders, Filers & Sharpeners	340	320	-5.9%	0	7	7
51-4199	Metal Workers & Plastic Workers, Other	70	70	0.0%	0	1	1
51-5100	Printing Workers	1,940	1,750	-9.8%	0	37	37
51-5111	Prepress Technician & Workers	410	330	-19.5%	0	10	10
51-5112	Printing Press Operators	1,240	1,150	-7.3%	0	22	22
51-5113	Print Binding & Finishing Workers	280	260	-7.1%	0	5	5
51-6000	Textile, Apparel & Furnishings Workers	2,750	2,610	-5.1%	5	56	61
51-6011	Laundry & Dry-Cleaning Workers	1,380	1,430	3.6%	5	41	46
51-6021	Pressers: Textile, Garment & Related Materials	260	250	-3.8%	0	3	3
51-6031	Sewing Machine Operators	410	330	-19.5%	0	2	2
51-6041	Shoe & Leather Workers & Repairers	10	10	0.0%	0	0	0
51-6061	Textile Bleaching & Dyeing Machine Operators	10	10	0.0%	0	0	0

**Pittsburgh MSA
Occupational Employment
2012-2022 Long-Term Projections**

SOC Code	Occupational Title	Estimated 2012	Projected 2022	Percent Change	Average Annual Openings		
					Due to Growth ^{1/}	Due to Replace. ^{2/}	Total ^{3/}
51-6062	Textile Cutting Machine Operators	80	60	-25.0%	0	1	1
51-6091	Extruding & Forming Machine Operators, Synthetic & Glass Fibers	90	70	-22.2%	0	2	2
51-7000	Woodworkers	730	830	13.7%	9	8	17
51-7011	Cabinetmakers & Bench Carpenters	360	400	11.1%	4	3	7
51-7021	Furniture Finishers	110	120	9.1%	1	2	3
51-7041	Sawing Machine Operators, Wood	90	100	11.1%	1	2	3
51-7042	Woodworking Machine Operators	150	180	20.0%	3	1	4
51-8000	Plant & System Operators	4,250	4,300	1.2%	12	143	155
51-8012	Power Distributors & Dispatchers	90	90	0.0%	0	3	3
51-8013	Power Plant Operators	400	350	-12.5%	0	12	12
51-8021	Stationary Engineers & Boiler Operators	1,240	1,220	-1.6%	0	38	38
51-8031	Water & Wastewater Treatment Plant & System Operators	1,420	1,460	2.8%	4	50	54
51-8091	Chemical Plant & System Operators	500	500	0.0%	0	19	19
51-8092	Gas Plant Operators	310	370	19.4%	6	11	17
51-8093	Petroleum Pump System Operators, Refinery Operators & Gaugers	190	210	10.5%	2	7	9
51-9000	Other Production Occupations	17,090	17,800	4.2%	95	392	487
51-9011	Chemical Equipment Operators	1,000	950	-5.0%	0	35	35
51-9012	Separating, Filtering, Clarifying, Precipitating & Still Machine Operators	190	190	0.0%	0	6	6
51-9021	Crushing, Grinding & Polishing Machine Operators	180	190	5.6%	0	5	5
51-9022	Grinding & Polishing Workers, Hand	120	120	0.0%	1	3	4
51-9023	Mixing & Blending Machine Operators	710	690	-2.8%	0	20	20
51-9032	Cutting & Slicing Machine Operators	210	200	-4.8%	0	4	4
51-9041	Extruding, Forming, Pressing & Compacting Machine Operators	650	680	4.6%	3	18	21
51-9051	Furnace, Kiln, Oven, Drier & Kettle Operators	320	280	-12.5%	0	8	8
51-9061	Inspectors, Testers, Sorters, Samplers & Weighers	3,440	3,670	6.7%	23	76	99
51-9071	Jewelers & Precious Stone & Metal Workers	270	250	-7.4%	0	6	6
51-9081	Dental Laboratory Technicians	130	130	0.0%	0	4	4
51-9082	Medical Appliance Technicians	450	470	4.4%	2	15	17
51-9083	Ophthalmic Laboratory Technicians	290	310	6.9%	2	10	12
51-9111	Packaging & Filling Machine Operators	1,650	1,720	4.2%	6	39	45
51-9121	Coating, Painting & Spraying Machine Operators	520	570	9.6%	5	9	14
51-9122	Painters, Transportation Equipment	290	310	6.9%	2	5	7
51-9123	Painting, Coating & Decorating Workers	200	210	5.0%	0	4	4
51-9151	Photographic Process Workers & Processing Machine Operators	350	320	-8.6%	0	10	10
51-9191	Adhesive Bonding Machine Operators	40	40	0.0%	0	1	1

**Pittsburgh MSA
Occupational Employment
2012-2022 Long-Term Projections**

SOC Code	Occupational Title	Estimated 2012	Projected 2022	Percent Change	Average Annual Openings		
					Due to Growth ^{1/}	Due to Replace. ^{2/}	Total ^{3/}
51-9192	Cleaning, Washing & Metal Pickling Equipment Operators	80	80	0.0%	0	2	2
51-9193	Cooling & Freezing Equipment Operators	90	90	0.0%	0	2	2
51-9194	Etchers & Engravers	40	40	0.0%	0	1	1
51-9195	Molders, Shapers & Casters, Except Metal & Plastic	370	380	2.7%	1	12	13
51-9196	Paper Goods Machine Operators	640	580	-9.4%	0	6	6
51-9198	Helpers--Production Workers	3,940	4,200	6.6%	25	68	93
51-9199	Production Workers, Other	840	1,070	27.4%	24	22	46
53-0000	Transportation & Material Moving Occupations	70,400	76,360	8.5%	608	1,608	2,216
53-1000	Supervisors - Transportation & Material Moving Workers	2,560	2,760	7.8%	20	70	90
53-1011	Aircraft Cargo Handling Supervisors	10	10	0.0%	0	0	0
53-1021	Supervisors - Helpers, Laborers & Material Movers	1,080	1,160	7.4%	8	30	38
53-1031	Supervisors - Transportation & Vehicle Operators	1,470	1,590	8.2%	12	40	52
53-2000	Air Transportation Workers	890	960	7.9%	6	28	34
53-2011	Airline Pilots, Copilots & Flight Engineers	200	210	5.0%	2	6	8
53-2012	Commercial Pilots	270	290	7.4%	2	8	10
53-2021	Air Traffic Controllers	90	100	11.1%	1	4	5
53-2022	Airfield Operations Specialists	170	180	5.9%	1	7	8
53-2031	Flight Attendants	160	180	12.5%	2	3	5
53-3000	Motor Vehicle Operators	35,160	38,390	9.2%	323	572	895
53-3011	Ambulance Drivers & Attendants	250	310	24.0%	6	4	10
53-3021	Bus Drivers, Transit & Intercity	2,010	2,120	5.5%	11	37	48
53-3022	Bus Drivers, School or Special Client	5,830	6,340	8.7%	51	107	158
53-3031	Driver/Sales Workers	4,240	4,420	4.2%	18	68	86
53-3032	Heavy & Tractor-Trailer Truck Drivers	12,610	14,580	15.6%	196	202	398
53-3033	Light Truck or Delivery Services Drivers	7,850	7,980	1.7%	13	126	139
53-3041	Taxi Drivers & Chauffeurs	2,290	2,560	11.8%	28	27	55
53-3099	Motor Vehicle Operators, Other	80	80	0.0%	0	2	2
53-4000	Rail Transportation Workers	1,370	1,330	-2.9%	1	41	42
53-4013	Rail Yard Engineers, Dinkey Operators & Hostlers	90	90	0.0%	1	3	4
53-4021	Railroad Brake, Signal & Switch Operators	270	260	-3.7%	0	8	8
53-5000	Water Transportation Workers	550	630	14.5%	7	25	32
53-5011	Sailors & Marine Oilers	310	360	16.1%	6	14	20
53-5021	Captains, Mates & Pilots of Water Vessels	240	250	4.2%	2	11	13
53-6000	Other Transportation Workers	1,620	1,740	7.4%	12	60	72
53-6011	Bridge & Lock Tenders	20	20	0.0%	0	1	1

**Pittsburgh MSA
Occupational Employment
2012-2022 Long-Term Projections**

SOC Code	Occupational Title	Estimated 2012	Projected 2022	Percent Change	Average Annual Openings		
					Due to Growth ^{1/}	Due to Replace. ^{2/}	Total ^{3/}
53-6021	Parking Lot Attendants	740	790	6.8%	5	35	40
53-6031	Automotive & Watercraft Service Attendants	600	660	10.0%	6	17	23
53-7000	Material Moving Workers	28,260	30,560	8.1%	237	811	1,048
53-7011	Conveyor Operators	150	150	0.0%	0	4	4
53-7021	Crane & Tower Operators	450	520	15.6%	6	16	22
53-7032	Excavating & Loading Machine & Dragline Operators	300	290	-3.3%	0	2	2
53-7041	Hoist & Winch Operators	70	80	14.3%	0	2	2
53-7051	Industrial Truck & Tractor Operators	2,590	2,570	-0.8%	0	60	60
53-7061	Cleaners of Vehicles & Equipment	1,610	1,710	6.2%	10	45	55
53-7062	Laborers & Freight, Stock & Material Movers	16,520	18,040	9.2%	152	512	664
53-7063	Machine Feeders & Offbearers	400	380	-5.0%	0	8	8
53-7064	Packers & Packagers, Hand	3,920	4,360	11.2%	44	103	147
53-7071	Gas Compressor & Gas Pumping Station Operators	330	370	12.1%	4	12	16
53-7072	Pump Operators	270	290	7.4%	2	9	11
53-7073	Wellhead Pumpers	260	290	11.5%	3	9	12
53-7081	Refuse & Recyclable Material Collectors	1,090	1,240	13.8%	14	23	37
53-7121	Tank Car, Truck & Ship Loaders	170	160	-5.9%	0	5	5

FOOTNOTES:

Data may not add to totals due to rounding. Confidential data and occupations with employment less than 10 are not shown but are included in all sub-total and total employment values.

1/ Labor force growth openings, except for cases of negative growth where growth openings are expressed as zero.

2/ Labor force net replacements due to death, retirement, disability, or withdrawal for personal reasons.

3/ Total openings equal replacements plus annual growth.