

**Pittsburgh MSA
Occupational Employment
2020-2030 Long-Term Projections**

SOC Code	Occupational Title	Educ. Level	Employment Outlook			Annual Demand			
			Estimated 2020	Projected 2030	Percent Change	Due to Growth ^{1/}	Due to Exits ^{2/}	Due to Transfers ^{3/}	Total Demand ^{4/}
00-0000	Total, All Occupations	N/A	1,105,600	1,182,940	7.0%	7,735	49,120	74,238	131,093
11-0000	Management Occupations	N/A	55,080	60,690	10.2%	562	1,332	3,185	5,079
11-1000	Top Executives	N/A	18,780	20,050	6.8%	127	402	1,158	1,687
11-1011	Chief Executives	BD+	1,920	1,820	-5.2%	-10	51	75	116
11-1021	General & Operations Managers	BD+	16,510	17,850	8.1%	134	343	1,065	1,542
11-1031	Legislators	BD+	360	380	5.6%	2	8	18	28
11-2000	Advertising, Marketing, Promotions, Public Relations & Sales Managers	N/A	4,060	4,480	10.3%	42	88	268	398
11-2011	Advertising & Promotions Managers	BD+	100	120	20.0%	2	2	8	12
11-2021	Marketing Managers	BD+	1,700	1,900	11.8%	21	36	113	170
11-2022	Sales Managers	BD+	1,800	1,960	8.9%	15	38	118	171
11-2030	Public Relations & Fundraising Managers	BD+	460	510	10.9%	5	12	28	45
11-3000	Operations Specialties Managers	N/A	12,810	14,520	13.3%	172	278	723	1,173
11-3010	Administrative Services & Facilities Managers	BD+	1,500	1,620	8.0%	12	44	78	134
11-3021	Computer & Information Systems Managers	BD+	3,560	4,010	12.6%	45	62	215	322
11-3031	Financial Managers	BD+	3,910	4,710	20.5%	81	88	216	385
11-3051	Industrial Production Managers	BD+	1,190	1,250	5.0%	6	24	58	88
11-3061	Purchasing Managers	BD+	450	490	8.9%	4	10	25	39
11-3071	Transportation, Storage & Distribution Managers	WK EXP	830	910	9.6%	8	17	48	73
11-3111	Compensation & Benefits Managers	BD+	140	140	0.0%	1	3	7	11
11-3121	Human Resources Managers	BD+	1,050	1,170	11.4%	12	26	62	100
11-3131	Training & Development Managers	BD+	190	220	15.8%	3	4	14	21
11-9000	Other Management Occupations	N/A	19,430	21,640	11.4%	221	564	1,036	1,821
11-9013	Farmers, Ranchers & Other Agricultural Managers	WK EXP	1,350	1,350	0.0%	0	83	47	130
11-9021	Construction Managers	BD+	2,040	2,290	12.3%	25	45	110	180
11-9031	Education Admin., Preschool & Childcare Center/Program	BD+	450	500	11.1%	4	12	22	38
11-9032	Education Administrators, Elementary & Secondary School	MD+	1,290	1,330	3.1%	4	32	61	97
11-9033	Education Administrators, Postsecondary	MD+	820	830	1.2%	1	20	38	59
11-9039	Education Administrators, Other	BD+	220	250	13.6%	3	6	11	20
11-9041	Architectural & Engineering Managers	BD+	1,660	1,690	1.8%	3	30	85	118
11-9051	Food Service Managers	WK EXP	1,300	1,510	16.2%	21	43	112	176
11-9081	Lodging Managers	WK EXP	140	160	14.3%	2	6	10	18
11-9111	Medical & Health Services Managers	BD+	3,880	5,050	30.2%	117	112	227	456
11-9121	Natural Sciences Managers	BD+	740	780	5.4%	4	15	37	56
11-9131	Postmasters & Mail Superintendents	WK EXP	140	130	-7.1%	-1	3	6	8
11-9141	Property, Real Estate & Community Association Managers	WK EXP	1,060	1,120	5.7%	6	41	41	88

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11-9151	Social & Community Service Managers	BD+	1,610	1,750	8.7%	14	50	90	154
11-9171	Funeral Home Managers	AD+	220	220	0.0%	0	5	11	16
11-9198	Misc. Personal Svc, Entertainment & Other Managers	BD+	2,480	2,630	6.0%	15	59	125	199
13-0000	Business & Financial Operations Occupations	N/A	61,210	65,810	7.5%	459	1,693	3,736	5,888
13-1000	Business Operations Specialists	N/A	38,480	41,560	8.0%	308	1,090	2,419	3,817
13-1020	Buyers & Purchasing Agents	BD+	2,970	2,880	-3.0%	-9	99	187	277
13-1031	Claims Adjusters, Examiners & Investigators	LT OJT	2,280	2,140	-6.1%	-14	52	115	153
13-1041	Compliance Officers	BD+	2,160	2,270	5.1%	11	54	118	183
13-1051	Cost Estimators	BD+	1,620	1,620	0.0%	1	46	98	145
13-1071	Human Resources Specialists	BD	4,700	5,110	8.7%	41	133	326	500
13-1075	Labor Relations Specialists	BD+	970	910	-6.2%	-6	26	63	83
13-1081	Logisticians	BD	1,170	1,520	29.9%	36	28	87	151
13-1111	Management Analysts	BD+	6,790	7,560	11.3%	77	231	413	721
13-1121	Meeting, Convention & Event Planners	BD	760	870	14.5%	10	24	60	94
13-1131	Fundraisers	BD	930	980	5.4%	5	30	61	96
13-1141	Compensation, Benefits & Job Analysis Specialists	BD+	1,000	1,100	10.0%	10	31	61	102
13-1151	Training & Development Specialists	BD+	1,660	1,810	9.0%	15	52	106	173
13-1161	Market Research Analysts & Marketing Specialists	BD	4,820	5,840	21.2%	102	126	390	618
13-1198	Project Mgmt & Other Business Oprs Specialists	BD	6,630	6,900	4.1%	27	157	332	516
13-2000	Financial Specialists	N/A	22,740	24,250	6.6%	151	604	1,317	2,072
13-2011	Accountants & Auditors	BD	10,220	11,020	7.8%	79	296	629	1,004
13-2020	Property Appraisers & Assessors	BD+	340	370	8.8%	3	14	13	30
13-2031	Budget Analysts	BD	270	280	3.7%	1	7	14	22
13-2041	Credit Analysts	BD	710	700	-1.4%	-1	12	47	58
13-2052	Personal Financial Advisors	BD+	2,100	2,200	4.8%	11	49	106	166
13-2053	Insurance Underwriters	BD+	470	440	-6.4%	-2	9	24	31
13-2061	Financial Examiners	BD+	690	890	29.0%	20	21	36	77
13-2071	Credit Counselors	BD+	260	270	3.8%	1	6	14	21
13-2072	Loan Officers	BD+	3,040	3,150	3.6%	10	66	168	244
13-2081	Tax Examiners, Collectors & Revenue Agents	BD+	540	540	0.0%	0	21	24	45
13-2082	Tax Preparers	MT OJT	780	800	2.6%	3	43	44	90
13-2098	Financial, Investment & Risk Specialists, All Other	BD	3,330	3,600	8.1%	27	61	198	286
15-0000	Computer & Mathematical Occupations	N/A	35,840	40,500	13.0%	466	792	1,882	3,140
15-1200	Computer Occupations	N/A	34,080	38,250	12.2%	418	751	1,791	2,960
15-1211	Computer Systems Analysts	BD	5,090	5,410	6.3%	31	102	258	391

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15-1212	Information Security Analysts	BD+	710	940	32.4%	23	13	46	82
15-1221	Computer & Information Research Scientists	MD	210	240	14.3%	4	4	11	19
15-1231	Computer Network Support Specialists	AD	1,750	1,950	11.4%	20	35	98	153
15-1232	Computer User Support Specialists	PS	4,410	4,870	10.4%	46	87	246	379
15-1241	Computer Network Architects	BD+	1,250	1,360	8.8%	12	18	59	89
15-1244	Network & Computer Systems Administrators	BD	2,200	2,300	4.5%	10	38	106	154
15-1245	Database Administrators & Architects	BD	1,320	1,420	7.6%	10	32	67	109
15-1251	Computer Programmers	BD	1,700	1,540	-9.4%	-16	32	74	90
15-1256	Software Developers & QA Analysts	BD	10,080	12,340	22.4%	227	260	550	1,037
15-1257	Web & Digital Interface Designers	BD	1,150	1,290	12.2%	14	28	60	102
15-1299	Computer Occupations, All Other	BD	4,220	4,590	8.8%	38	102	216	356
15-2000	Mathematical Scientists	N/A	1,770	2,250	27.1%	48	41	91	180
15-2011	Actuaries	BD+	200	240	20.0%	4	4	9	17
15-2031	Operations Research Analysts	BD	920	1,180	28.3%	26	23	46	95
15-2041	Statisticians	MD	450	600	33.3%	15	11	26	52
17-0000	Architecture & Engineering Occupations	N/A	23,350	24,210	3.7%	86	566	1,158	1,810
17-1000	Architects, Surveyors & Cartographers	N/A	1,630	1,610	-1.2%	-2	48	73	119
17-1011	Architects	BD+	950	960	1.1%	0	26	41	67
17-1022	Surveyors	BD+	570	550	-3.5%	-2	19	28	45
17-2000	Engineers	N/A	15,370	16,310	6.1%	94	325	682	1,101
17-2031	Biomedical Engineers	BD	120	120	0.0%	0	3	5	8
17-2041	Chemical Engineers	BD	220	250	13.6%	3	5	9	17
17-2051	Civil Engineers	BD	3,180	3,380	6.3%	20	65	163	248
17-2061	Computer Hardware Engineers	BD	470	470	0.0%	0	9	22	31
17-2071	Electrical Engineers	BD	1,850	2,000	8.1%	15	46	77	138
17-2072	Electronics Engineers	BD	800	850	6.2%	5	20	33	58
17-2081	Environmental Engineers	BD	740	740	0.0%	0	17	36	53
17-2111	Health & Safety Engineers	BD	210	220	4.8%	1	5	8	14
17-2112	Industrial Engineers	BD	2,030	2,270	11.8%	24	47	86	157
17-2121	Marine Engineers & Naval Architects	BD	10	10	0.0%	0	0	0	0
17-2131	Materials Engineers	BD	230	260	13.0%	3	5	10	18
17-2141	Mechanical Engineers	BD	3,590	3,830	6.7%	24	64	153	241
17-2151	Mining & Geological Engineers	BD	50	50	0.0%	0	1	2	3
17-2171	Petroleum Engineers	BD	320	340	6.2%	2	6	15	23
17-2199	Engineers, Other	BD	1,060	1,080	1.9%	2	23	44	69

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17-3000	Drafters, Engineering & Mapping Technicians	N/A	6,350	6,290	-0.9%	-6	193	403	590
17-3011	Architectural & Civil Drafters	AD	1,060	1,010	-4.7%	-5	32	66	93
17-3012	Electrical & Electronics Drafters	AD	260	280	7.7%	1	8	17	26
17-3013	Mechanical Drafters	AD	690	650	-5.8%	-4	21	43	60
17-3022	Civil Engineering Technicians	AD	630	600	-4.8%	-2	18	38	54
17-3023	Electrical & Electronic Engineering Technicians	AD	1,190	1,190	0.0%	0	36	73	109
17-3024	Electro-Mechanical Technicians	AD	190	200	5.3%	0	6	12	18
17-3026	Industrial Engineering Technicians	AD	300	310	3.3%	1	9	19	29
17-3027	Mechanical Engineering Technicians	AD	400	410	2.5%	1	12	25	38
17-3031	Surveying & Mapping Technicians	MT OJT	400	400	0.0%	0	14	34	48
17-3098	Calibration & Engineering Techs, All Other	AD	1,000	1,020	2.0%	2	30	62	94
19-0000	Life, Physical & Social Science Occupations	N/A	10,800	11,280	4.4%	48	237	823	1,108
19-1000	Life Scientists	N/A	1,950	2,160	10.8%	20	31	130	181
19-1012	Food Scientists & Technologists	BD	40	50	25.0%	0	1	4	5
19-1013	Soil & Plant Scientists	BD	30	40	33.3%	0	1	3	4
19-1021	Biochemists & Biophysicists	DOCT	80	90	12.5%	0	1	6	7
19-1022	Microbiologists	BD	60	60	0.0%	0	1	4	5
19-1023	Zoologists & Wildlife Biologists	BD	40	40	0.0%	0	1	3	4
19-1029	Biological Scientists, Other	BD	220	220	0.0%	0	4	16	20
19-1031	Conservation Scientists	BD	130	130	0.0%	0	3	9	12
19-1032	Foresters	BD	30	40	33.3%	0	1	2	3
19-1041	Epidemiologists	MD	20	20	0.0%	0	0	1	1
19-1042	Medical Scientists	DOCT	1,160	1,350	16.4%	18	17	72	107
19-2000	Physical Scientists	N/A	1,550	1,600	3.2%	5	25	114	144
19-2012	Physicists	DOCT	150	160	6.7%	1	3	8	12
19-2021	Atmospheric & Space Scientists	BD	60	60	0.0%	0	1	4	5
19-2031	Chemists	BD	510	520	2.0%	1	8	38	47
19-2041	Environmental Scientists & Specialists	BD	380	380	0.0%	0	6	30	36
19-2042	Geoscientists	BD	250	270	8.0%	2	4	21	27
19-2099	Physical Scientists, Other	BD	80	80	0.0%	0	1	5	6
19-3000	Social Scientists & Related Workers	N/A	1,470	1,480	0.7%	2	34	75	111
19-3011	Economists	MD	60	60	0.0%	0	1	3	4
19-3022	Survey Researchers	MD	60	60	0.0%	0	1	4	5
19-3031	Clinical, Counseling & School Psychologists	DOCT	530	540	1.9%	0	14	21	35
19-3039	Psychologists, Other	MD+	220	220	0.0%	0	6	8	14

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19-3051	Urban & Regional Planners	MD	280	290	3.6%	1	4	19	24
19-3093	Historians	MD	30	30	0.0%	0	1	2	3
19-3099	Social Scientists & Related Workers, Other	BD	170	170	0.0%	0	4	11	15
19-4000	Life, Physical & Social Science Technicians	N/A	4,650	4,780	2.8%	14	114	452	580
19-4010	Agricultural & Food Science Technicians	AD+	100	110	10.0%	0	2	11	13
19-4021	Biological Technicians	BD	1,680	1,730	3.0%	4	40	171	215
19-4031	Chemical Technicians	AD+	730	750	2.7%	2	13	67	82
19-4042	Environmental Science & Protection Technicians	AD	290	300	3.4%	1	8	27	36
19-4045	Geological & Hydrologic Technicians	AD+	210	210	0.0%	0	6	20	26
19-4061	Social Science Research Assistants	BD	400	420	5.0%	2	11	38	51
19-4092	Forensic Science Technicians	BD+	30	40	33.3%	1	1	3	5
19-4099	Life, Physical & Social Science Technicians, Other	AD	860	920	7.0%	6	24	84	114
19-5000	Occupational Health & Safety Specialists & Technicians	N/A	1,190	1,260	5.9%	6	33	52	91
19-5011	Occupational Health & Safety Specialists	BD	1,040	1,090	4.8%	5	29	46	80
19-5012	Occupational Health & Safety Technicians	MT OJT	150	160	6.7%	1	4	7	12
21-0000	Community & Social Services Occupations	N/A	23,500	25,590	8.9%	210	820	1,568	2,598
21-1000	Counselors, Social Workers & Community Service Specialists	N/A	19,820	21,860	10.3%	204	660	1,329	2,193
21-1012	Educational, Guidance, School & Vocational Counselors	MD	1,550	1,630	5.2%	8	52	94	154
21-1013	Marriage & Family Therapists	MD+	330	360	9.1%	3	11	20	34
21-1015	Rehabilitation Counselors	MD	1,230	1,310	6.5%	8	41	75	124
21-1018	Substance Abuse, Behavioral Disorder, & Mental Health Counselors	BD	3,990	4,660	16.8%	66	141	256	463
21-1021	Child, Family & School Social Workers	BD	3,510	3,830	9.1%	32	103	232	367
21-1022	Healthcare Social Workers	MD+	1,990	2,150	8.0%	17	58	131	206
21-1023	Mental Health & Substance Abuse Social Workers	MD+	1,860	2,030	9.1%	17	54	123	194
21-1029	Social Workers, Other	BD	290	300	3.4%	1	8	19	28
21-1091	Health Educators	BD	500	550	10.0%	5	18	36	59
21-1092	Probation Officers & Correctional Treatment Specialists	BD	610	640	4.9%	3	14	38	55
21-1093	Social & Human Service Assistants	ST OJT	3,010	3,360	11.6%	34	127	240	401
21-1094	Community Health Workers	ST OJT	400	470	17.5%	6	15	30	51
21-2000	Religious Workers	N/A	3,680	3,740	1.6%	5	160	239	404
21-2011	Clergy	BD+	1,990	2,020	1.5%	3	82	116	201
23-0000	Legal Occupations	N/A	10,160	11,010	8.4%	85	289	404	778
23-1000	Lawyers, Judges & Related Workers	N/A	6,700	7,320	9.3%	63	154	176	393
23-1011	Lawyers	DOCT	6,330	6,940	9.6%	61	144	163	368
23-1012	Judicial Law Clerks	DOCT	220	230	4.5%	1	7	8	16

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23-1021	Administrative Law Judges, Adjudicators & Hearing Officers	DOCT	120	120	0.0%	0	3	3	6
23-1022	Arbitrators, Mediators & Conciliators	BD+	30	30	0.0%	0	1	1	2
23-2000	Legal Support Workers	N/A	3,460	3,690	6.6%	22	135	229	386
23-2011	Paralegals & Legal Assistants	AD	2,010	2,270	12.9%	26	83	145	254
23-2093	Title Examiners, Abstractors & Searchers	MT OJT	1,200	1,170	-2.5%	-3	43	70	110
23-2099	Legal Support Workers, Other	AD	250	240	-4.0%	0	9	14	23
25-0000	Education, Training & Library Occupations	N/A	57,980	61,480	6.0%	350	2,360	2,693	5,403
25-1000	Postsecondary Teachers	N/A	13,810	14,900	7.9%	109	642	671	1,422
25-1011	Business Teachers, Postsecondary	DOCT	670	680	1.5%	1	30	32	63
25-1021	Computer Science Teachers, Postsecondary	DOCT	480	490	2.1%	1	22	23	46
25-1022	Mathematical Science Teachers, Postsecondary	DOCT	320	320	0.0%	0	14	15	29
25-1041	Agricultural Sciences Teachers, Postsecondary	DOCT	10	10	0.0%	0	0	0	0
25-1042	Biological Science Teachers, Postsecondary	DOCT	380	400	5.3%	2	18	18	38
25-1051	Atmospheric, Earth, Marine & Space Sciences Teachers, Postsecondary	DOCT	80	80	0.0%	0	4	4	8
25-1052	Chemistry Teachers, Postsecondary	DOCT	250	260	4.0%	0	11	12	23
25-1054	Physics Teachers, Postsecondary	DOCT	120	120	0.0%	0	6	6	12
25-1061	Anthropology & Archeology Teachers, Postsecondary	DOCT	40	40	0.0%	0	2	2	4
25-1062	Area, Ethnic & Cultural Studies Teachers, Postsecondary	DOCT	50	50	0.0%	0	2	2	4
25-1063	Economics Teachers, Postsecondary	DOCT	120	120	0.0%	0	5	6	11
25-1066	Psychology Teachers, Postsecondary	DOCT	280	290	3.6%	1	13	13	27
25-1067	Sociology Teachers, Postsecondary	DOCT	70	70	0.0%	0	3	3	6
25-1069	Social Sciences Teachers, Postsecondary, Other	DOCT	60	60	0.0%	0	3	3	6
25-1071	Health Specialties Teachers, Postsecondary	DOCT	4,710	5,520	17.2%	81	229	239	549
25-1072	Nursing Instructors & Teachers, Postsecondary	DOCT	490	560	14.3%	7	23	24	54
25-1081	Education Teachers, Postsecondary	DOCT	480	490	2.1%	1	22	23	46
25-1082	Library Science Teachers, Postsecondary	DOCT	30	30	0.0%	0	1	1	2
25-1111	Criminal Justice & Law Enforcement Teachers, Postsecondary	DOCT	130	130	0.0%	1	6	6	13
25-1121	Art, Drama & Music Teachers, Postsecondary	MD	570	600	5.3%	3	26	27	56
25-1122	Communications Teachers, Postsecondary	DOCT	150	150	0.0%	0	7	7	14
25-1123	English Language & Literature Teachers, Postsecondary	DOCT	610	620	1.6%	1	27	29	57
25-1124	Foreign Language & Literature Teachers, Postsecondary	DOCT	210	210	0.0%	0	10	10	20
25-1125	History Teachers, Postsecondary	DOCT	190	200	5.3%	0	9	9	18
25-1126	Philosophy & Religion Teachers, Postsecondary	DOCT	140	150	7.1%	1	6	7	14
25-1193	Recreation & Fitness Studies Teachers, Postsecondary	DOCT	110	110	0.0%	0	5	5	10
25-1194	Vocational Education Teachers, Postsecondary	BD+	530	540	1.9%	1	24	25	50

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25-2000	Primary, Secondary & Special Education School Teachers	N/A	29,880	31,160	4.3%	128	948	1,291	2,367
25-2011	Preschool Teachers	AD	2,800	3,210	14.6%	41	123	175	339
25-2012	Kindergarten Teachers	BD	540	550	1.9%	2	22	32	56
25-2021	Elementary School Teachers	BD	9,660	9,960	3.1%	30	301	393	724
25-2022	Middle School Teachers	BD	6,610	6,820	3.2%	21	206	269	496
25-2031	Secondary School Teachers	BD	6,830	7,070	3.5%	23	184	282	489
25-2032	Career/Technical Education Teachers, Secondary School	BD+	460	480	4.3%	1	12	19	32
25-2051	Special Education Teachers, Preschool	BD	120	130	8.3%	1	4	5	10
25-2052	Special Education Teachers, Kindergarten & Elementary School	BD	910	940	3.3%	3	30	37	70
25-2058	Special Education Teachers, Secondary School	BD	1,080	1,110	2.8%	3	36	44	83
25-2059	Special Education Teachers, Other	BD	60	60	0.0%	1	2	2	5
25-3000	Other Teachers & Instructors	N/A	4,730	5,420	14.6%	69	303	272	644
25-3011	Adult Basic & Secondary Education & Literacy Teachers	BD	110	100	-9.1%	-1	6	6	11
25-3021	Self-Enrichment Education Teachers	WK EXP	2,210	2,610	18.1%	40	144	129	313
25-3031	Substitute Teachers, Short-Term	BD	1,320	1,410	6.8%	10	82	73	165
25-3097	Teachers & Instructors, Other	BD	1,090	1,290	18.3%	20	71	64	155
25-4000	Librarians, Curators & Archivists	N/A	1,840	1,930	4.9%	8	108	96	212
25-4011	Archivists	MD	50	50	0.0%	0	2	3	5
25-4022	Librarians & Media Collections Specialists	MD	1,090	1,160	6.4%	7	56	49	112
25-4031	Library Technicians	PS	450	450	0.0%	0	37	28	65
25-9000	Other Education, Training & Library Occupations	N/A	7,710	8,070	4.7%	36	359	365	760
25-9031	Instructional Coordinators	MD+	900	960	6.7%	6	46	41	93
25-9044	Teaching Assistants, Postsecondary	BD	60	60	0.0%	0	3	3	6
25-9045	Teaching Assistants, Non-Postsecondary	PS	6,310	6,610	4.8%	29	289	302	620
25-9099	Education, Training & Library Workers, Other	BD	440	440	0.0%	1	22	19	42
27-0000	Arts, Design, Entertainment, Sports & Media Occupations	N/A	14,870	16,630	11.8%	176	595	986	1,757
27-1000	Art & Design Workers	N/A	5,170	5,560	7.5%	39	190	308	537
27-1011	Art Directors	BD+	620	710	14.5%	9	32	35	76
27-1014	Multimedia Artists & Animators	BD	420	500	19.0%	8	22	24	54
27-1019	Artists & Related Workers, Other	LT OJT	70	70	0.0%	1	3	4	8
27-1021	Commercial & Industrial Designers	BD	110	130	18.2%	1	4	7	12
27-1024	Graphic Designers	BD	1,590	1,700	6.9%	10	50	98	158
27-1025	Interior Designers	BD	420	410	-2.4%	0	13	25	38
27-1026	Merchandise Displayers & Window Trimmers	ST OJT	1,280	1,330	3.9%	6	40	78	124
27-1027	Set & Exhibit Designers	BD	100	110	10.0%	1	3	6	10

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27-1029	Designers, Other	BD	60	60	0.0%	0	2	3	5
27-2000	Entertainers & Performers, Sports & Related Workers	N/A	4,030	4,730	17.4%	70	222	296	588
27-2011	Actors	PS+	540	600	11.1%	6	24	38	68
27-2012	Producers & Directors	BD+	530	610	15.1%	8	12	36	56
27-2021	Athletes & Sports Competitors	LT OJT	270	380	40.7%	11	18	26	55
27-2022	Coaches & Scouts	BD	1,030	1,310	27.2%	28	66	94	188
27-2023	Umpires, Referees & Other Sports Officials	MT OJT	50	60	20.0%	1	3	4	8
27-2041	Music Directors & Composers	BD+	410	440	7.3%	3	25	24	52
27-2042	Musicians & Singers	LT OJT	1,070	1,160	8.4%	9	66	62	137
27-2090	Entertainers, Performers, Sports & Related Workers	ST OJT	80	110	37.5%	3	4	5	12
27-3000	Media & Communication Workers	N/A	3,920	4,230	7.9%	30	126	254	410
27-3011	Radio & Television Announcers	BD	110	120	9.1%	0	4	6	10
27-3023	News Analysts, Reporters & Journalists	BD	250	250	0.0%	0	8	19	27
27-3031	Public Relations Specialists	BD	1,530	1,680	9.8%	15	40	105	160
27-3041	Editors	BD+	480	490	2.1%	1	16	31	48
27-3042	Technical Writers	BD+	430	470	9.3%	4	12	28	44
27-3043	Writers & Authors	BD+	760	820	7.9%	6	32	44	82
27-3091	Interpreters & Translators	BD	200	250	25.0%	5	9	12	26
27-3092	Court Reporters & Simultaneous Captioners	PS	120	120	0.0%	0	4	7	11
27-3099	Media & Communication Workers, Other	ST OJT	30	30	0.0%	0	1	2	3
27-4000	Media & Communication Equipment Workers	N/A	1,750	2,110	20.6%	36	57	127	220
27-4012	Broadcast Technicians	AD	140	150	7.1%	1	4	10	15
27-4014	Sound Engineering Technicians	PS	50	60	20.0%	0	1	4	5
27-4021	Photographers	MT OJT	580	660	13.8%	8	21	35	64
27-4031	Camera Operators: TV, Video & Motion Picture	BD	120	140	16.7%	2	4	8	14
27-4032	Film & Video Editors	BD	170	220	29.4%	5	6	12	23
29-0000	Healthcare Practitioners & Technical Occupations	N/A	87,430	93,320	6.7%	589	2,268	2,684	5,541
29-1000	Health Diagnosing & Treating Practitioners	N/A	59,330	63,640	7.3%	431	1,468	1,464	3,363
29-1011	Chiropractors	DOCT	600	600	0.0%	0	9	5	14
29-1021	Dentists, General	DOCT	760	780	2.6%	2	14	6	22
29-1031	Dietitians & Nutritionists	BD+	860	950	10.5%	9	29	31	69
29-1041	Optometrists	DOCT	390	400	2.6%	0	7	5	12
29-1051	Pharmacists	DOCT	3,130	3,050	-2.6%	-8	57	59	108
29-1071	Physician Assistants	MD	1,570	2,020	28.7%	45	28	71	144
29-1081	Podiatrists	DOCT	110	100	-9.1%	-1	3	4	6

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29-1122	Occupational Therapists	MD	1,610	1,810	12.4%	20	37	56	113
29-1123	Physical Therapists	DOCT	2,820	3,240	14.9%	41	60	63	164
29-1124	Radiation Therapists	AD	140	150	7.1%	1	3	4	8
29-1125	Recreational Therapists	BD	120	120	0.0%	0	4	5	9
29-1126	Respiratory Therapists	AD	1,380	1,600	15.9%	22	32	38	92
29-1127	Speech-Language Pathologists	MD+	1,260	1,550	23.0%	29	33	50	112
29-1141	Registered Nurses	BD	33,150	34,780	4.9%	163	906	854	1,923
29-1151	Nurse Anesthetists	MD	210	230	9.5%	2	4	7	13
29-1161	Nurse Midwives	MD	50	60	20.0%	0	1	2	3
29-1171	Nurse Practitioners	MD	1,410	2,190	55.3%	78	38	56	172
29-1181	Audiologists	DOCT	110	120	9.1%	0	2	2	4
29-1215	Family Medicine Physicians	DOCT	670	700	4.5%	4	11	8	23
29-1216	General Internal Medicine Physicians	DOCT	160	150	-6.2%	-1	2	2	3
29-1223	Psychiatrists	DOCT	150	170	13.3%	2	3	2	7
29-1228	Physicians & Ophthalmologists, All Other	DOCT	5,370	5,420	0.9%	4	87	61	152
29-1292	Dental Hygienists	AD	1,490	1,550	4.0%	6	54	38	98
29-1298	Acupuncturists & Other Healthcare Practitioners	MD	290	300	3.4%	1	13	5	19
29-2000	Health Technologists & Technicians	N/A	27,440	28,960	5.5%	152	781	1,189	2,122
29-2010	Clinical Laboratory Technologists & Technicians	BD	3,590	3,740	4.2%	16	94	136	246
29-2031	Cardiovascular Technologists & Technicians	AD	1,070	1,140	6.5%	7	30	48	85
29-2032	Diagnostic Medical Sonographers	AD	640	720	12.5%	8	18	29	55
29-2033	Nuclear Medicine Technologists	AD	220	230	4.5%	1	6	10	17
29-2034	Radiologic Technologists	AD	2,210	2,270	2.7%	5	61	96	162
29-2035	Magnetic Resonance Imaging Technologists	AD+	400	390	-2.5%	0	11	17	28
29-2040	Emergency Medical Technicians & Paramedics	PS	3,090	3,190	3.2%	10	58	145	213
29-2051	Dietetic Technicians	AD	150	180	20.0%	4	4	7	15
29-2052	Pharmacy Technicians	MT OJT	4,020	4,150	3.2%	12	112	176	300
29-2053	Psychiatric Technicians	PS+	600	610	1.7%	1	16	26	43
29-2055	Surgical Technologists	PS	1,010	1,040	3.0%	3	28	44	75
29-2056	Veterinary Technologists & Technicians	AD	1,200	1,340	11.7%	14	35	55	104
29-2061	Licensed Practical & Licensed Vocational Nurses	PS	5,620	6,100	8.5%	48	198	245	491
29-2081	Opticians, Dispensing	LT OJT	480	460	-4.2%	-2	19	16	33
29-2091	Orthotists & Prosthetists	MD+	130	150	15.4%	2	4	6	12
29-2098	Medical Dosimetrists, Records Specialists & Other Techs	PS	2,580	2,780	7.8%	20	73	115	208
29-9000	Other Healthcare Practitioners & Technical Occupations	N/A	670	720	7.5%	6	19	30	55

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29-9091	Athletic Trainers	BD	350	390	11.4%	4	10	16	30
29-9092	Genetic Counselors	MD	30	40	33.3%	0	1	2	3
29-9098	Health Info Techs, Surgical Asst's & Other HC Workers	PS	290	300	3.4%	1	8	12	21
31-0000	Healthcare Support Occupations	N/A	62,650	72,110	15.1%	946	4,042	4,078	9,066
31-1100	Nursing, Psychiatric, & Home Health Aides	N/A	48,840	56,410	15.5%	758	3,369	2,980	7,107
31-1120	Home Health & Personal Care Aides	ST OJT	33,690	40,450	20.1%	677	2,373	2,099	5,149
31-1131	Nursing Assistants	PS	13,980	14,800	5.9%	82	922	815	1,819
31-1132	Orderlies	ST OJT	690	700	1.4%	0	44	39	83
31-1133	Psychiatric Aides	ST OJT	480	460	-4.2%	-1	30	27	56
31-2000	Occupational & Physical Therapist Assistants & Aides	N/A	1,980	2,440	23.2%	46	99	165	310
31-2011	Occupational Therapy Assistants	AD	490	610	24.5%	13	27	40	80
31-2012	Occupational Therapy Aides	ST OJT	60	60	0.0%	1	3	4	8
31-2021	Physical Therapist Assistants	AD	960	1,230	28.1%	27	47	83	157
31-2022	Physical Therapist Aides	ST OJT	470	530	12.8%	6	21	38	65
31-9000	Other Healthcare Support Occupations	N/A	11,830	13,260	12.1%	143	574	932	1,649
31-9011	Massage Therapists	PS	780	1,010	29.5%	23	52	47	122
31-9091	Dental Assistants	PS	1,810	1,880	3.9%	7	84	130	221
31-9092	Medical Assistants	PS	5,290	6,160	16.4%	87	235	428	750
31-9093	Medical Equipment Preparers	MT OJT	570	580	1.8%	1	32	38	71
31-9095	Pharmacy Aides	ST OJT	360	350	-2.8%	-2	18	27	43
31-9096	Veterinary Assistants & Laboratory Animal Caretakers	ST OJT	570	630	10.5%	6	29	66	101
31-9097	Phlebotomists	PS	1,160	1,270	9.5%	10	52	88	150
33-0000	Protective Service Occupations	N/A	22,590	23,960	6.1%	137	1,245	1,521	2,903
33-1000	Supervisors - Protective Service Workers	N/A	1,510	1,590	5.3%	7	45	75	127
33-1011	Supervisors - Correctional Officers	WK EXP	70	70	0.0%	0	2	3	5
33-1012	Supervisors - Police & Detectives	WK EXP	680	710	4.4%	3	15	28	46
33-1021	Supervisors - Fire Fighting & Prevention	PS+	150	150	0.0%	1	4	6	11
33-1090	Supervisors - Protective Service Workers	WK EXP	620	660	6.5%	4	24	37	65
33-2000	Fire Fighting & Prevention Workers	N/A	870	920	5.7%	5	21	46	72
33-3000	Law Enforcement Workers	N/A	7,520	7,700	2.4%	18	209	388	615
33-3011	Bailiffs	MT OJT	20	20	0.0%	0	1	1	2
33-3012	Correctional Officers & Jailers	MT OJT	1,290	1,220	-5.4%	-7	47	68	108
33-3021	Detectives & Criminal Investigators	WK EXP	650	660	1.5%	1	17	30	48
33-3041	Parking Enforcement Workers	ST OJT	110	70	-36.4%	-4	5	4	5
33-3051	Police & Sheriff's Patrol Officers	MT OJT	5,410	5,680	5.0%	28	139	282	449

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33-9000	Other Protective Service Workers	N/A	12,690	13,760	8.4%	107	970	1,013	2,090
33-9031	Gaming Surveillance Officers & Gaming Investigators	WK EXP	60	80	33.3%	2	4	5	11
33-9032	Security Guards	ST OJT	8,320	8,790	5.6%	47	453	663	1,163
33-9091	Crossing Guards	ST OJT	1,580	1,700	7.6%	12	239	85	336
33-9092	Lifeguards, Ski Patrol & Other Recreational Protective Service	ST OJT	1,040	1,350	29.8%	32	164	133	329
33-9093	Transportation Security Screeners	ST OJT	370	370	0.0%	0	13	18	31
33-9098	School Bus Monitors & Other Protective Svc Workers	ST OJT	510	550	7.8%	4	73	59	136
35-0000	Food Preparation & Serving Related Occupations	N/A	82,730	101,800	23.1%	1,907	7,130	9,469	18,506
35-1000	Supervisors, Food Preparation & Serving Workers	N/A	7,570	9,340	23.4%	177	367	859	1,403
35-1011	Chefs & Head Cooks	WK EXP	590	760	28.8%	17	20	66	103
35-1012	Supervisors - Food Preparation & Serving Workers	WK EXP	6,980	8,580	22.9%	160	347	793	1,300
35-2000	Cooks & Food Preparation Workers	N/A	16,650	21,830	31.1%	518	1,184	1,663	3,365
35-2011	Cooks, Fast Food	ST OJT	1,520	1,490	-2.0%	-4	88	129	213
35-2012	Cooks, Institution & Cafeteria	ST OJT	3,140	3,310	5.4%	17	190	276	483
35-2014	Cooks, Restaurant	MT OJT	8,870	13,620	53.6%	475	662	962	2,099
35-2021	Food Preparation Workers	ST OJT	2,500	2,730	9.2%	23	205	240	468
35-3000	Food & Beverage Serving Workers	N/A	50,270	60,310	20.0%	1,004	4,690	6,051	11,745
35-3011	Bartenders	ST OJT	4,220	5,730	35.8%	151	225	602	978
35-3023	Fast Food & Counter Workers	ST OJT	29,430	34,690	17.9%	526	3,108	3,389	7,023
35-3031	Waiters & Waitresses	ST OJT	13,820	16,850	21.9%	302	1,126	1,831	3,259
35-3041	Food Servers, Nonrestaurant	ST OJT	2,800	3,050	8.9%	25	231	228	484
35-9000	Other Food Preparation & Serving Related Workers	N/A	8,240	10,330	25.4%	209	888	896	1,993
35-9011	Dining Room & Cafeteria Attendants & Bartender Helpers	ST OJT	1,500	1,970	31.3%	48	150	150	348
35-9021	Dishwashers	ST OJT	3,230	3,930	21.7%	70	270	300	640
35-9031	Hosts & Hostesses: Restaurant, Lounge & Coffee Shop	ST OJT	3,490	4,400	26.1%	91	467	444	1,002
35-9099	Food Preparation & Serving Related Workers, Other	ST OJT	30	30	0.0%	0	2	2	4
37-0000	Building & Grounds Cleaning & Maintenance Occupations	N/A	31,340	33,230	6.0%	189	1,856	2,334	4,379
37-1000	Supervisors of Building & Grounds Cleaning & Maintenance Workers	N/A	2,430	2,510	3.3%	8	91	174	273
37-1011	Supervisors - Housekeeping & Janitorial Workers	WK EXP	1,200	1,240	3.3%	4	52	84	140
37-1012	Supervisors - Landscaping & Groundskeeping Workers	WK EXP	1,230	1,270	3.3%	4	39	90	133
37-2000	Building Cleaning & Pest Control Workers	N/A	22,650	24,000	6.0%	134	1,486	1,603	3,223
37-2011	Janitors & Cleaners	ST OJT	15,280	15,910	4.1%	63	973	1,093	2,129
37-2012	Maids & Housekeeping Cleaners	ST OJT	7,070	7,770	9.9%	69	504	477	1,050
37-3000	Grounds Maintenance Workers	N/A	6,260	6,730	7.5%	46	279	557	882
37-3011	Landscaping & Groundskeeping Workers	ST OJT	6,050	6,500	7.4%	45	270	538	853

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39-0000	Personal Care & Service Occupations	N/A	32,310	39,280	21.6%	697	2,170	2,662	5,529
39-1000	Supervisors, Personal Care & Service Workers	N/A	2,440	2,880	18.0%	44	97	184	325
39-2000	Animal Care & Service Workers	N/A	2,110	2,670	26.5%	56	152	197	405
39-3000	Entertainment Attendants & Related Workers	N/A	3,020	4,590	52.0%	158	373	405	936
39-3031	Ushers, Lobby Attendants & Ticket Takers	ST OJT	680	1,100	61.8%	42	113	91	246
39-3091	Amusement & Recreation Attendants	ST OJT	1,680	2,560	52.4%	89	207	237	533
39-3092	Costume Attendants	ST OJT	30	40	33.3%	1	4	4	9
39-3093	Locker Room, Coatroom & Dressing Room Attendants	ST OJT	150	190	26.7%	4	17	19	40
39-4000	Funeral Service Workers	N/A	1,350	1,380	2.2%	2	74	100	176
39-4021	Funeral Attendants	ST OJT	990	1,010	2.0%	2	56	75	133
39-4031	Morticians, Undertakers & Funeral Directors	AD+	360	370	2.8%	1	17	25	43
39-5000	Personal Appearance Workers	N/A	10,250	12,770	24.6%	252	594	637	1,483
39-5012	Hairdressers, Hairstylists & Cosmetologists	PS	8,370	10,330	23.4%	196	495	519	1,210
39-5092	Manicurists & Pedicurists	PS	450	610	35.6%	16	27	28	71
39-5093	Shampooers	ST OJT	270	350	29.6%	9	16	16	41
39-5094	Skincare Specialists	PS	350	480	37.1%	13	21	22	56
39-6000	Transportation, Tourism & Lodging Attendants	N/A	380	440	15.8%	6	21	32	59
39-6011	Baggage Porters & Bellhops	ST OJT	240	280	16.7%	4	14	20	38
39-6012	Concierges	MT OJT	140	160	14.3%	2	8	12	22
39-7000	Tour & Travel Guides	N/A	380	420	10.5%	4	26	38	68
39-7010	Tour & Travel Guides	MT OJT	380	420	10.5%	4	26	38	68
39-9000	Other Personal Care & Service Workers	N/A	12,370	14,120	14.1%	175	834	1,069	2,078
39-9011	Childcare Workers	ST OJT	7,060	7,600	7.6%	54	494	512	1,060
39-9031	Fitness Trainers & Aerobics Instructors	ST OJT	2,220	3,000	35.1%	78	153	248	479
39-9032	Recreation Workers	ST OJT	2,310	2,710	17.3%	40	147	238	425
39-9041	Residential Advisors	ST OJT	720	740	2.8%	2	37	65	104
39-9098	Crematory Oprs & Other Personal Service Workers	ST OJT	60	70	16.7%	1	4	5	10
41-0000	Sales & Related Occupations	N/A	100,450	100,650	0.2%	20	5,211	7,934	13,165
41-1000	Supervisors - Sales Workers	N/A	13,700	13,290	-3.0%	-41	457	904	1,320
41-1011	Supervisors - Retail Sales Workers	WK EXP	10,570	10,250	-3.0%	-33	368	721	1,056
41-1012	Supervisors - Non-Retail Sales Workers	WK EXP	3,130	3,040	-2.9%	-8	89	183	264
41-2000	Retail Sales Workers	N/A	55,490	54,940	-1.0%	-56	3,758	4,843	8,545
41-2011	Cashiers	ST OJT	25,100	24,150	-3.8%	-95	2,095	2,358	4,358
41-2021	Counter & Rental Clerks	ST OJT	2,210	2,330	5.4%	12	102	156	270
41-2031	Retail Salespersons	ST OJT	26,210	26,360	0.6%	15	1,470	2,171	3,656

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SOC Code	Occupational Title	Educ. Level	Employment Outlook			Annual Demand			
			Estimated 2020	Projected 2030	Percent Change	Due to Growth ^{1/}	Due to Exits ^{2/}	Due to Transfers ^{3/}	Total Demand ^{4/}
41-3000	Sales Representatives, Services	N/A	13,660	14,540	6.4%	88	386	1,029	1,503
41-3011	Advertising Sales Agents	MT OJT	710	710	0.0%	0	22	66	88
41-3021	Insurance Sales Agents	MT OJT	3,910	4,010	2.6%	10	132	222	364
41-3031	Securities, Commodities & Financial Services Sales Agents	BD+	3,190	3,450	8.2%	25	73	209	307
41-3041	Travel Agents	MT OJT	230	240	4.3%	1	12	16	29
41-3091	Sales Representatives - Services	MT OJT	5,610	6,130	9.3%	52	148	516	716
41-4000	Sales Representatives, Wholesale & Manufacturing	N/A	11,490	11,760	2.3%	27	344	786	1,157
41-4011	Sales Representatives, Technical & Scientific Products	BD+	1,320	1,340	1.5%	2	39	90	131
41-4012	Sales Representatives	MT OJT	10,170	10,420	2.5%	25	304	696	1,025
41-9000	Other Sales & Related Workers	N/A	6,110	6,130	0.3%	1	266	372	639
41-9011	Demonstrators & Product Promoters	ST OJT	220	230	4.5%	1	25	15	41
41-9022	Real Estate Sales Agents	MT OJT	3,590	3,740	4.2%	15	152	161	328
41-9031	Sales Engineers	BD+	540	550	1.9%	1	11	45	57
41-9041	Telemarketers	ST OJT	1,030	860	-16.5%	-17	44	96	123
41-9091	Door-to-Door Sales Workers, News & Street Vendors & Related Workers	ST OJT	40	30	-25.0%	-1	2	2	3
43-0000	Office & Administrative Support Occupations	N/A	152,100	146,760	-3.5%	-534	7,167	9,240	15,873
43-1000	Supervisors - Office & Administrative Support Workers	N/A	12,930	12,750	-1.4%	-18	476	785	1,243
43-1011	Supervisors - Office & Administrative Support Workers	WK EXP	12,930	12,750	-1.4%	-18	476	785	1,243
43-2000	Communications Equipment Operators	N/A	500	380	-24.0%	-12	22	27	37
43-2011	Switchboard Operators	ST OJT	420	320	-23.8%	-10	19	21	30
43-3000	Financial Clerks	N/A	22,550	21,830	-3.2%	-71	1,109	1,254	2,292
43-3011	Bill & Account Collectors	MT OJT	1,570	1,460	-7.0%	-10	56	107	153
43-3021	Billing & Posting Clerks	MT OJT	3,450	3,460	0.3%	2	142	212	356
43-3031	Bookkeeping, Accounting & Auditing Clerks	PS+	11,860	11,790	-0.6%	-7	693	604	1,290
43-3051	Payroll & Timekeeping Clerks	MT OJT	1,270	1,120	-11.8%	-15	56	65	106
43-3061	Procurement Clerks	MT OJT	530	510	-3.8%	-2	14	33	45
43-3071	Tellers	ST OJT	3,700	3,270	-11.6%	-44	142	219	317
43-4000	Information & Record Clerks	N/A	42,610	42,720	0.3%	11	2,057	3,136	5,204
43-4011	Brokerage Clerks	MT OJT	470	430	-8.5%	-4	18	30	44
43-4021	Correspondence Clerks	ST OJT	30	30	0.0%	0	1	2	3
43-4031	Court, Municipal & License Clerks	LT OJT	190	200	5.3%	1	10	10	21
43-4051	Customer Service Representatives	ST OJT	24,330	24,270	-0.2%	-6	1,142	1,911	3,047
43-4061	Eligibility Interviewers, Government Programs	MT OJT	1,350	1,410	4.4%	6	51	71	128
43-4071	File Clerks	ST OJT	940	790	-16.0%	-14	47	53	86
43-4081	Hotel, Motel & Resort Desk Clerks	ST OJT	970	1,240	27.8%	28	64	117	209

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43-4111	Interviewers	ST OJT	1,180	1,070	-9.3%	-11	65	73	127
43-4121	Library Assistants, Clerical	ST OJT	1,060	1,050	-0.9%	0	94	68	162
43-4131	Loan Interviewers & Clerks	ST OJT	2,320	2,370	2.2%	5	67	138	210
43-4141	New Accounts Clerks	MT OJT	150	130	-13.3%	-2	4	9	11
43-4151	Order Clerks	PS	830	700	-15.7%	-12	32	48	68
43-4161	Human Resources Assistants	AD	950	960	1.1%	1	37	58	96
43-4171	Receptionists & Information Clerks	ST OJT	6,690	6,860	2.5%	18	378	468	864
43-4199	Information & Record Clerks, Other	ST OJT	560	560	0.0%	0	23	37	60
43-5000	Material Recording, Scheduling, Dispatching & Distributing Workers	N/A	14,720	14,400	-2.2%	-32	558	741	1,267
43-5011	Cargo & Freight Agents	ST OJT	340	370	8.8%	3	14	21	38
43-5021	Couriers & Messengers	ST OJT	750	690	-8.0%	-6	30	39	63
43-5031	Police, Fire & Ambulance Dispatchers	MT OJT	700	740	5.7%	4	25	40	69
43-5032	Dispatchers	MT OJT	1,640	1,710	4.3%	7	59	94	160
43-5041	Meter Readers, Utilities	ST OJT	300	260	-13.3%	-3	8	12	17
43-5051	Postal Service Clerks	ST OJT	760	690	-9.2%	-7	33	26	52
43-5052	Postal Service Mail Carriers	ST OJT	2,600	2,360	-9.2%	-24	86	89	151
43-5053	Postal Service Mail Sorters, Processors & Processing Machine Operators	ST OJT	1,560	1,350	-13.5%	-21	79	47	105
43-5061	Production, Planning & Expediting Clerks	MT OJT	1,830	1,980	8.2%	15	68	124	207
43-5071	Shipping, Receiving & Traffic Clerks	ST OJT	4,100	4,090	-0.2%	-1	149	240	388
43-5111	Weighers, Measurers, Checkers & Samplers, Recordkeeping	ST OJT	150	160	6.7%	1	6	9	16
43-6000	Secretaries & Administrative Assistants	N/A	25,040	22,620	-9.7%	-242	1,212	1,331	2,301
43-6011	Executive Secretaries & Executive Administrative Assistants	WK EXP	2,850	2,310	-18.9%	-53	131	144	222
43-6012	Legal Secretaries	MT OJT	1,050	830	-21.0%	-22	48	53	79
43-6013	Medical Secretaries	MT OJT	3,350	3,560	6.3%	21	176	193	390
43-6014	Secretaries	ST OJT	17,790	15,920	-10.5%	-188	858	941	1,611
43-9000	Other Office & Administrative Support Workers	N/A	33,760	32,050	-5.1%	-171	1,732	1,966	3,527
43-9021	Data Entry Keyers	ST OJT	1,420	1,070	-24.6%	-35	56	79	100
43-9022	Word Processors & Typists	ST OJT	960	610	-36.5%	-35	47	42	54
43-9041	Insurance Claims & Policy Processing Clerks	MT OJT	1,920	1,910	-0.5%	-1	68	112	179
43-9051	Mail Clerks & Mail Machine Operators	ST OJT	610	580	-4.9%	-3	30	37	64
43-9061	Office Clerks, General	ST OJT	27,450	26,470	-3.6%	-98	1,471	1,599	2,972
43-9071	Office Machine Operators	ST OJT	350	300	-14.3%	-5	17	19	31
43-9111	Statistical Assistants	BD	110	120	9.1%	1	3	11	15
43-9199	Office & Administrative Support Workers, Other	ST OJT	880	930	5.7%	5	37	62	104
45-0000	Farming, Fishing & Forestry Occupations	N/A	3,360	3,430	2.1%	8	143	384	535

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45-1000	Supervisors - Farming, Fishing & Forestry Workers	N/A	220	230	4.5%	2	8	23	33
45-1011	Farm & Forestry Worker Supervisors	WK EXP	220	230	4.5%	2	8	23	33
45-2000	Agricultural Workers	N/A	2,970	3,010	1.3%	5	127	341	473
45-2011	Agricultural Inspectors	BD+	50	50	0.0%	0	2	6	8
45-2021	Animal Breeders	ST OJT	30	30	0.0%	0	1	3	4
45-2091	Agricultural Equipment Operators	MT OJT	190	210	10.5%	2	8	22	32
45-2092	Farmworkers & Laborers, Crop, Nursery & Greenhouse	ST OJT	1,760	1,800	2.3%	3	75	203	281
45-4022	Logging Equipment Operators	MT OJT	20	20	0.0%	0	1	2	3
47-0000	Construction & Extraction Occupations	N/A	53,330	55,970	5.0%	264	1,645	3,759	5,668
47-1000	Supervisors - Construction & Extraction Workers	N/A	4,630	4,880	5.4%	26	134	308	468
47-1011	Supervisors - Construction Trades & Extraction Workers	WK EXP	4,630	4,880	5.4%	26	134	308	468
47-2000	Construction Trades Workers	N/A	39,730	41,980	5.7%	225	1,200	2,750	4,175
47-2011	Boilermakers	LT OJT	120	110	-8.3%	-1	2	8	9
47-2021	Brickmasons & Blockmasons	LT OJT	700	680	-2.9%	-1	22	42	63
47-2031	Carpenters	LT OJT	7,600	7,830	3.0%	24	225	481	730
47-2041	Carpet Installers	ST OJT	530	500	-5.7%	-3	14	30	41
47-2044	Tile & Marble Setters	LT OJT	320	360	12.5%	4	9	20	33
47-2051	Cement Masons & Concrete Finishers	MT OJT	470	470	0.0%	0	11	31	42
47-2061	Construction Laborers	ST OJT	11,920	12,870	8.0%	96	366	837	1,299
47-2072	Pile-Driver Operators	MT OJT	10	10	0.0%	0	0	1	1
47-2073	Operating Engineers & Other Construction Equipment Operators	MT OJT	4,870	5,130	5.3%	26	164	358	548
47-2081	Drywall & Ceiling Tile Installers	MT OJT	430	460	7.0%	3	11	25	39
47-2082	Tapers	MT OJT	70	70	0.0%	0	2	4	6
47-2111	Electricians	LT OJT	4,620	4,930	6.7%	31	139	351	521
47-2121	Glaziers	LT OJT	380	420	10.5%	4	11	31	46
47-2131	Insulation Workers, Floor, Ceiling & Wall	ST OJT	270	290	7.4%	2	7	19	28
47-2141	Painters, Construction & Maintenance	MT OJT	1,790	1,910	6.7%	11	56	103	170
47-2142	Paperhangers	LT OJT	30	40	33.3%	0	1	2	3
47-2151	Pipelayers	ST OJT	110	110	0.0%	0	3	8	11
47-2152	Plumbers, Pipefitters & Steamfitters	LT OJT	2,800	2,880	2.9%	8	83	204	295
47-2161	Plasterers & Stucco Masons	LT OJT	80	90	12.5%	0	2	4	6
47-2181	Roofers	MT OJT	670	730	9.0%	6	17	49	72
47-2211	Sheet Metal Workers	LT OJT	570	580	1.8%	0	16	37	53
47-2221	Structural Iron & Steel Workers	LT OJT	460	500	8.7%	4	12	37	53
47-3000	Helpers, Construction Trades	N/A	1,120	1,140	1.8%	2	33	99	134

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47-3012	Helpers--Carpenters	ST OJT	290	290	0.0%	0	8	25	33
47-3013	Helpers--Electricians	ST OJT	270	270	0.0%	0	8	24	32
47-3015	Helpers--Pipelayers, Plumbers, Pipefitters & Steamfitters	ST OJT	170	170	0.0%	0	5	15	20
47-3019	Helpers, Construction Trades, Other	ST OJT	240	260	8.3%	1	7	22	30
47-4000	Other Construction & Related Workers	N/A	4,790	4,940	3.1%	14	205	317	536
47-4011	Construction & Building Inspectors	WK EXP	1,460	1,430	-2.1%	-3	79	87	163
47-4021	Elevator Installers & Repairers	LT OJT	150	150	0.0%	0	3	10	13
47-4041	Hazardous Materials Removal Workers	MT OJT	390	380	-2.6%	-1	14	31	44
47-4051	Highway Maintenance Workers	MT OJT	2,380	2,510	5.5%	13	96	153	262
47-4090	Miscellaneous Construction & Related Workers	MT OJT	90	100	11.1%	1	3	8	12
47-5000	Extraction Workers	N/A	3,060	3,030	-1.0%	-3	72	286	355
47-5012	Rotary Drill Operators, Oil & Gas	MT OJT	340	340	0.0%	0	7	33	40
47-5013	Service Unit Operators, Oil, Gas & Mining	MT OJT	880	860	-2.3%	-2	18	84	100
47-5022	Excavating/Loading/Dragline Machine Oprs, Surface Mining	WK EXP	320	320	0.0%	0	10	28	38
47-5041	Continuous Mining Machine Operators	MT OJT	190	180	-5.3%	-1	6	16	21
47-5071	Roustabouts, Oil & Gas	MT OJT	920	940	2.2%	2	19	90	111
47-5097	Earth Drillers, Explosives Workers & Ordnance Handlers	WK EXP	60	60	0.0%	0	2	5	7
49-0000	Installation, Maintenance & Repair Occupations	N/A	44,170	46,910	6.2%	274	1,416	2,893	4,583
49-1000	Supervisors - Installation, Maintenance & Repair Workers	N/A	3,770	3,990	5.8%	22	112	231	365
49-1011	Supervisors - Mechanics, Installers & Repairers	WK EXP	3,770	3,990	5.8%	22	112	231	365
49-2000	Electrical & Electronic Equipment Mechanics, Installers & Repairers	N/A	3,870	3,930	1.6%	6	119	269	394
49-2011	Computer, Automated Teller & Office Machine Repairers	PS	940	910	-3.2%	-3	28	70	95
49-2022	Telecommunications Equipment Installers & Repairers	PS+	1,070	1,060	-0.9%	0	37	82	119
49-2091	Avionics Technicians	AD	50	50	0.0%	0	1	2	3
49-2092	Electric Motor, Power Tool & Related Repairers	WK EXP	110	120	9.1%	1	4	6	11
49-2094	Electrical & Electronics Repairers, Commercial & Industrial Equipment	PS+	610	640	4.9%	4	17	31	52
49-2095	Electrical & Electronics Repairers, Powerhouse, Substation & Relay	PS+	190	190	0.0%	0	5	9	14
49-2098	Security & Fire Alarm Systems Installers	MT OJT	440	480	9.1%	5	11	35	51
49-3000	Vehicle & Mobile Equipment Mechanics, Installers	N/A	13,510	14,100	4.4%	60	415	914	1,389
49-3011	Aircraft Mechanics & Service Technicians	PS	460	520	13.0%	5	14	26	45
49-3021	Automotive Body & Related Repairers	LT OJT	1,420	1,460	2.8%	3	46	86	135
49-3023	Automotive Service Technicians & Mechanics	PS	6,330	6,310	-0.3%	-2	188	429	615
49-3031	Bus & Truck Mechanics & Diesel Engine Specialists	LT OJT	2,600	2,920	12.3%	32	78	172	282
49-3041	Farm Equipment Mechanics & Service Technicians	LT OJT	80	80	0.0%	1	2	5	8
49-3042	Mobile Heavy Equipment Mechanics	LT OJT	1,230	1,360	10.6%	13	39	88	140

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49-3093	Tire Repairers & Changers	ST OJT	650	660	1.5%	1	20	54	75
49-9000	Other Installation, Maintenance & Repair Occupations	N/A	23,030	24,890	8.1%	186	769	1,479	2,434
49-9012	Control & Valve Installers & Repairers	MT OJT	360	370	2.8%	1	8	21	30
49-9021	Heating, A/C & Refrigeration Mechanics & Installers	PS+	3,300	3,370	2.1%	7	86	228	321
49-9041	Industrial Machinery Mechanics	LT OJT	3,590	4,300	19.8%	71	121	213	405
49-9043	Maintenance Workers, Machinery	LT OJT	600	660	10.0%	6	21	34	61
49-9044	Millwrights	LT OJT	400	440	10.0%	4	12	24	40
49-9051	Electrical Power-Line Installers & Repairers	LT OJT	690	740	7.2%	5	13	48	66
49-9052	Telecommunications Line Installers & Repairers	LT OJT	1,380	1,360	-1.4%	-3	30	116	143
49-9062	Medical Equipment Repairers	AD+	490	530	8.2%	4	22	30	56
49-9063	Musical Instrument Repairers & Tuners	LT OJT	300	300	0.0%	0	13	18	31
49-9071	Maintenance & Repair Workers, General	MT OJT	10,050	10,890	8.4%	84	369	611	1,064
49-9091	Coin, Vending & Amusement Machine Servicers & Repairers	ST OJT	240	270	12.5%	2	11	18	31
49-9098	Helpers--Installation, Maintenance & Repair Workers	ST OJT	540	560	3.7%	2	24	46	72
49-9099	Installation, Maintenance & Repair Workers, Other	MT OJT	450	470	4.4%	2	16	31	49
51-0000	Production Occupations	N/A	54,450	54,000	-0.8%	-45	1,967	3,837	5,759
51-1000	Supervisors - Production Workers	N/A	4,510	4,710	4.4%	20	139	310	469
51-1011	Supervisors - Production & Operating Workers	WK EXP	4,510	4,710	4.4%	20	139	310	469
51-2000	Assemblers & Fabricators	N/A	10,440	9,650	-7.6%	-78	386	694	1,002
51-2021	Coil Winders, Tapers & Finishers	MT OJT	250	210	-16.0%	-4	9	14	19
51-2028	Electrical, Electronic, & Electromechanical Assemblers	MT OJT	3,180	3,310	4.1%	13	130	208	351
51-2041	Structural Metal Fabricators & Fitters	MT OJT	310	280	-9.7%	-3	7	24	28
51-2090	Misc. Assemblers & Fabricators	MT OJT	6,590	5,760	-12.6%	-83	236	440	593
51-3000	Food Processing Workers	N/A	3,050	3,250	6.6%	20	156	235	411
51-3011	Bakers	LT OJT	1,640	1,800	9.8%	16	96	128	240
51-3021	Butchers & Meat Cutters	LT OJT	740	760	2.7%	2	30	56	88
51-3023	Slaughterers & Meat Packers	ST OJT	120	130	8.3%	0	5	9	14
51-3092	Food Batchmakers	MT OJT	320	340	6.2%	1	15	25	41
51-3099	Food Processing Workers, Other	MT OJT	40	40	0.0%	0	1	3	4
51-4000	Metal Workers & Plastic Workers	N/A	14,640	14,650	0.1%	1	464	1,025	1,490
51-4021	Extruding & Drawing Machine Operators	MT OJT	570	550	-3.5%	-2	19	34	51
51-4022	Forging Machine Operators	MT OJT	180	160	-11.1%	-2	6	10	14
51-4023	Rolling Machine Operators	MT OJT	470	440	-6.4%	-3	16	28	41
51-4031	Cutting, Punching & Press Machine Operators	MT OJT	1,290	1,210	-6.2%	-8	40	86	118
51-4032	Drilling & Boring Machine Tool Operators	MT OJT	50	40	-20.0%	-1	1	3	3

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51-4033	Grinding, Lapping, Polishing & Buffing Machine Tool Operators	MT OJT	810	750	-7.4%	-6	35	54	83
51-4034	Lathe & Turning Machine Tool Operators	MT OJT	310	290	-6.5%	-2	10	20	28
51-4041	Machinists	LT OJT	2,530	2,670	5.5%	14	87	177	278
51-4051	Metal-Refining Furnace Operators	MT OJT	360	360	0.0%	0	8	25	33
51-4052	Pourers & Casters, Metal	MT OJT	250	230	-8.0%	-2	5	16	19
51-4072	Molding, Coremaking & Casting Machine Operators	MT OJT	710	680	-4.2%	-4	23	47	66
51-4081	Multiple Machine Tool Operators	MT OJT	2,140	2,210	3.3%	6	71	147	224
51-4111	Tool & Die Makers	PS+	590	540	-8.5%	-4	21	36	53
51-4121	Welders, Cutters, Solderers & Brazers	MT OJT	3,330	3,540	6.3%	21	90	271	382
51-4122	Welding, Soldering & Brazing Machine Operators	MT OJT	110	100	-9.1%	-1	3	8	10
51-4191	Heat Treating Equipment Operators	MT OJT	270	250	-7.4%	-2	8	18	24
51-4193	Plating & Coating Machine Operators	MT OJT	180	180	0.0%	0	6	12	18
51-4194	Tool Grinders, Filers & Sharpeners	MT OJT	30	30	0.0%	0	1	2	3
51-4199	Metal Workers & Plastic Workers, Other	MT OJT	160	150	-6.2%	-1	5	10	14
51-5100	Printing Workers	N/A	1,550	1,600	3.2%	4	60	112	176
51-5111	Prepress Technician & Workers	PS	110	100	-9.1%	-1	4	10	13
51-5112	Printing Press Operators	MT OJT	1,210	1,270	5.0%	6	45	87	138
51-5113	Print Binding & Finishing Workers	MT OJT	230	220	-4.3%	0	11	14	25
51-6000	Textile, Apparel & Furnishings Workers	N/A	2,270	2,420	6.6%	15	141	145	301
51-6011	Laundry & Dry-Cleaning Workers	ST OJT	990	1,130	14.1%	14	69	71	154
51-6021	Pressers: Textile, Garment & Related Materials	ST OJT	190	180	-5.3%	-1	8	11	18
51-6031	Sewing Machine Operators	ST OJT	510	520	2.0%	1	31	27	59
51-6052	Tailors, Dressmakers & Custom Sewers	MT OJT	120	120	0.0%	0	10	6	16
51-6061	Textile Bleaching & Dyeing Machine Operators	ST OJT	10	10	0.0%	0	1	1	2
51-6062	Textile Cutting Machine Operators	MT OJT	90	90	0.0%	0	5	6	11
51-6093	Upholsterers	MT OJT	90	90	0.0%	0	3	5	8
51-7000	Woodworkers	N/A	890	970	9.0%	8	38	62	108
51-7011	Cabinetmakers & Bench Carpenters	MT OJT	370	400	8.1%	3	14	21	38
51-7021	Furniture Finishers	ST OJT	210	220	4.8%	1	13	16	30
51-7041	Sawing Machine Operators, Wood	MT OJT	150	160	6.7%	1	5	12	18
51-7099	Woodworkers, Other	MT OJT	10	10	0.0%	0	0	0	0
51-8000	Plant & System Operators	N/A	3,410	3,310	-2.9%	-10	96	233	319
51-8012	Power Distributors & Dispatchers	LT OJT	90	90	0.0%	0	2	6	8
51-8013	Power Plant Operators	LT OJT	260	230	-11.5%	-3	6	17	20
51-8021	Stationary Engineers & Boiler Operators	LT OJT	400	410	2.5%	1	20	29	50

**Pittsburgh MSA
Occupational Employment
2020-2030 Long-Term Projections**

SOC Code	Occupational Title	Educ. Level	Employment Outlook			Annual Demand			
			Estimated 2020	Projected 2030	Percent Change	Due to Growth ^{1/}	Due to Exits ^{2/}	Due to Transfers ^{3/}	Total Demand ^{4/}
51-8031	Water & Wastewater Treatment Plant & System Operators	LT OJT	1,350	1,300	-3.7%	-5	37	82	114
51-8092	Gas Plant Operators	LT OJT	190	220	15.8%	2	5	16	23
51-8093	Petroleum Pump System Operators, Refinery Operators & Gaugers	MT OJT	360	360	0.0%	0	8	28	36
51-8099	Plant & System Operators, Other	MT OJT	30	30	0.0%	0	1	2	3
51-9000	Other Production Occupations	N/A	13,680	13,440	-1.8%	-24	487	1,022	1,485
51-9011	Chemical Equipment Operators	MT OJT	930	870	-6.5%	-6	20	70	84
51-9012	Separating, Filtering, Clarifying, Precipitating & Still Machine Operators	MT OJT	340	370	8.8%	3	8	27	38
51-9022	Grinding & Polishing Workers, Hand	MT OJT	200	170	-15.0%	-4	6	14	16
51-9023	Mixing & Blending Machine Operators	MT OJT	580	610	5.2%	3	20	44	67
51-9032	Cutting & Slicing Machine Operators	MT OJT	190	190	0.0%	0	8	14	22
51-9041	Extruding, Forming, Pressing & Compacting Machine Operators	MT OJT	310	320	3.2%	1	9	23	33
51-9051	Furnace, Kiln, Oven, Drier & Kettle Operators	MT OJT	160	170	6.2%	1	6	10	17
51-9061	Inspectors, Testers, Sorters, Samplers & Weighers	MT OJT	2,910	2,530	-13.1%	-38	104	216	282
51-9081	Dental Laboratory Technicians	MT OJT	180	210	16.7%	3	9	16	28
51-9082	Medical Appliance Technicians	MT OJT	190	220	15.8%	3	9	17	29
51-9083	Ophthalmic Laboratory Technicians	MT OJT	130	150	15.4%	2	6	11	19
51-9111	Packaging & Filling Machine Operators	MT OJT	1,140	1,190	4.4%	5	48	77	130
51-9124	Coating, Painting & Spraying Machine Setters/Oprs/Tenders	MT OJT	1,050	1,130	7.6%	8	30	78	116
51-9151	Photographic Process Workers & Processing Machine Operators	ST OJT	30	20	-33.3%	0	1	2	3
51-9161	CNC Tool Operators	MT OJT	2,220	2,130	-4.1%	-9	74	161	226
51-9162	CNC Tool Programmers	PS+	140	170	21.4%	3	5	11	19
51-9196	Paper Goods Machine Operators	MT OJT	400	390	-2.5%	-1	18	26	43
51-9198	Helpers--Production Workers	ST OJT	880	830	-5.7%	-5	40	80	115
53-0000	Transportation & Material Moving Occupations	N/A	85,890	94,320	9.8%	843	4,176	7,010	12,029
53-1000	Supervisors - Transportation & Material Moving Workers	N/A	3,830	4,160	8.6%	32	146	277	455
53-1041	Aircraft Cargo Handling Supervisors	WK EXP	70	80	14.3%	1	3	5	9
53-1047	Supervisors - Transportation & Material Moving Workers	WK EXP	3,760	4,080	8.5%	32	143	272	447
53-2012	Commercial Pilots	MT OJT	260	280	7.7%	2	10	19	31
53-2021	Air Traffic Controllers	AD+	120	120	0.0%	0	3	8	11
53-2022	Airfield Operations Specialists	LT OJT	30	30	0.0%	0	1	2	3
53-3000	Motor Vehicle Operators	N/A	33,030	36,890	11.7%	386	1,659	2,217	4,262
53-3031	Driver/Sales Workers	ST OJT	2,460	2,790	13.4%	33	108	178	319
53-3032	Heavy & Tractor-Trailer Truck Drivers	PS	14,970	15,980	6.7%	102	634	1,049	1,785
53-3033	Light Truck or Delivery Services Drivers	ST OJT	7,690	8,230	7.0%	54	326	540	920
53-3052	Bus Drivers, Transit & Intercity	MT OJT	1,660	1,940	16.9%	28	118	89	235

**Pittsburgh MSA
Occupational Employment
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SOC Code	Occupational Title	Educ. Level	Employment Outlook			Annual Demand			
			Estimated 2020	Projected 2030	Percent Change	Due to Growth ^{1/}	Due to Exits ^{2/}	Due to Transfers ^{3/}	Total Demand ^{4/}
53-3058	Passenger Vehicle Drivers	ST OJT	5,720	7,380	29.0%	166	431	326	923
53-4000	Rail Transportation Workers	N/A	850	870	2.4%	3	19	56	78
53-4011	Locomotive Engineers	WK EXP	170	180	5.9%	1	4	11	16
53-5021	Captains, Mates & Pilots of Water Vessels	PS+	300	340	13.3%	3	9	23	35
53-5031	Ship Engineers	PS+	150	170	13.3%	2	5	14	21
53-6000	Other Transportation Workers	N/A	2,530	2,640	4.3%	11	125	236	372
53-6011	Bridge & Lock Tenders	ST OJT	10	10	0.0%	0	0	1	1
53-6021	Parking Lot Attendants	ST OJT	1,240	1,290	4.0%	6	61	131	198
53-6031	Automotive & Watercraft Service Attendants	ST OJT	670	720	7.5%	5	32	62	99
53-6051	Transportation Inspectors	MT OJT	380	360	-5.3%	-1	12	27	38
53-7000	Material Moving Workers	N/A	44,100	48,040	8.9%	394	2,169	4,104	6,667
53-7011	Conveyor Operators	ST OJT	340	380	11.8%	4	11	31	46
53-7021	Crane & Tower Operators	WK EXP	730	760	4.1%	3	20	57	80
53-7051	Industrial Truck & Tractor Operators	ST OJT	3,200	3,460	8.1%	25	100	256	381
53-7061	Cleaners of Vehicles & Equipment	ST OJT	1,890	2,040	7.9%	15	96	175	286
53-7062	Laborers & Freight, Stock & Material Movers	ST OJT	21,060	22,820	8.4%	176	960	1,909	3,045
53-7064	Packers & Packagers, Hand	ST OJT	2,190	2,190	0.0%	0	125	178	303
53-7065	Stockers & Order Fillers	ST OJT	13,260	14,730	11.1%	147	796	1,365	2,308
53-7071	Gas Compressor & Gas Pumping Station Operators	MT OJT	120	130	8.3%	1	3	11	15
53-7073	Wellhead Pumpers	WK EXP	130	140	7.7%	1	3	11	15
53-7081	Refuse & Recyclable Material Collectors	ST OJT	870	1,080	24.1%	21	41	88	150

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/ Demand due to employment growth measures the numerical change in projected number of job gains or losses.

2/ Demand due to exits measure the projected number of workers leaving an occupation and exiting the workforce entirely.

3/ Demand due to transfers are the projected number of workers leaving an occupation and transferring to a different occupation.

4/ Total demand is the projected number of openings (positions) for workers entering the occupation. Defined as the sum of the demand due to growth, exits, and transfers.