

DISTRICT OF COLUMBIA SHORT-TERM OCCUPATIONAL PROJECTIONS, SEPARATIONS, OPENINGS, AND WORKER CHARACTERISTICS, 2017 - 2019*													
Soccode	Occupational Title	Employment Projections				Occupational Separations, 2017-2019, annual average			Occupational		Worker Characteristics		
		2017	2019	Change 2017-2019	Percent	Labor Force Exits	Occupational Transfers	Total	Openings 2017-2019	Median Annual Wage**	Typical Education Needed for Entry	Work Experience in a related Occupation	Typical on-the-job training needed to attain competency
				Numeric									
00-0000	Total, All Occupations	781,865	805,905	24,040	3.07	31,469	44,998	12,020	88,487	\$67,870			
11-0000	Management Occupations	105,470	107,782	2,312	2.19	2,614	5,439	1,156	9,209	\$132,370			
11-1000	Top Executives	33,993	34,827	834	2.45	741	1,989	417	3,147	N/A			
11-1011	Chief Executives	3,374	3,397	23	0.68	98	139	12	249	\$198,450	Bachelor's degree	5 years or more	None
11-1021	General and Operations Managers	30,596	31,406	810	2.65	642	1,849	405	2,896	\$135,090	Bachelor's degree	5 years or more	None
11-2000	Advertising, Marketing, Promotions, Public Relations, and Sales Managers	7,374	7,667	293	3.97	168	443	146	757	N/A			
11-2011	Advertising and Promotions Managers	247	257	10	4.05	6	19	5	30	\$103,760	Bachelor's degree	Less than 5 years	None
11-2021	Marketing Managers	1,351	1,414	63	4.66	32	84	32	148	\$150,760	Bachelor's degree	5 years or more	None
11-2022	Sales Managers	1,235	1,284	49	3.97	28	76	24	128	\$116,130	Bachelor's degree	Less than 5 years	None
11-2031	Public Relations and Fundraising Managers	4,541	4,712	171	3.77	102	264	86	452	\$148,140	Bachelor's degree	5 years or more	None
11-3000	Operations Specialties Managers	19,797	20,237	440	2.22	468	1,022	220	1,710	N/A			
11-3011	Administrative Services Managers	1,845	1,900	55	2.98	56	92	28	176	\$99,120	Bachelor's degree	Less than 5 years	None
11-3021	Computer and Information Systems Managers	4,359	4,470	111	2.55	78	240	56	374	\$153,710	Bachelor's degree	5 years or more	None
11-3031	Financial Managers	8,573	8,772	199	2.32	200	429	100	729	\$141,560	Bachelor's degree	5 years or more	None
11-3061	Purchasing Managers	2,253	2,262	9	0.40	66	110	4	180	\$130,680	Bachelor's degree	5 years or more	None
11-3071	Transportation, Storage, and Distribution Managers	523	530	7	1.34	12	28	4	44	\$136,620	HS or EQ	5 years or more	None
11-3111	Compensation and Benefits Managers	122	127	5	4.10	3	6	2	11	\$131,990	Bachelor's degree	5 years or more	None
11-3121	Human Resources Managers	1,789	1,832	43	2.40	45	97	22	164	\$146,690	Bachelor's degree	5 years or more	None
11-3131	Training and Development Managers	292	301	9	3.08	8	18	4	30	\$126,920	Bachelor's degree	5 years or more	None
11-9000	Other Management Occupations	44,306	45,051	745	1.68	1,237	1,986	372	3,595	N/A			
11-9021	Construction Managers	1,032	1,085	53	5.14	24	47	26	97	\$107,450	Bachelor's degree	None	Moderate-term OJT
11-9031	Education Administrators, Preschool and Childcare Center/Program	304	317	13	4.28	8	14	6	28	\$53,470	Bachelor's degree	Less than 5 years	None
11-9032	Education Administrators, Elementary and Secondary School	1,340	1,426	86	6.42	39	63	43	145	\$99,740	Master's degree	5 years or more	None
11-9033	Education Administrators, Postsecondary	1,789	1,855	66	3.69	51	83	33	167	\$91,650	Master's degree	Less than 5 years	None
11-9039	Education Administrators, All Other	767	784	17	2.22	22	36	8	66	\$101,310	Bachelor's degree	Less than 5 years	None
11-9041	Architectural and Engineering Managers	2,076	2,102	26	1.25	42	100	13	155	\$141,550	Bachelor's degree	5 years or more	None
11-9051	Food Service Managers	1,590	1,650	60	3.77	52	120	30	202	\$60,950	HS or EQ	Less than 5 years	None
11-9081	Lodging Managers	158	164	6	3.80	6	10	3	19	\$68,810	HS or EQ	Less than 5 years	None
11-9111	Medical and Health Services Managers	1,845	1,916	71	3.85	51	92	36	179	\$124,130	Bachelor's degree	Less than 5 years	None
11-9121	Natural Sciences Managers	1,345	1,358	13	0.97	30	76	6	112	\$128,070	Bachelor's degree	5 years or more	None
11-9141	Property, Real Estate, and Community Association Managers	2,077	2,210	133	6.40	89	72	66	227	\$71,860	HS or EQ	Less than 5 years	None
11-9151	Social and Community Service Managers	1,185	1,228	43	3.63	40	63	22	125	\$83,350	Bachelor's degree	Less than 5 years	None
11-9161	Emergency Management Directors	202	204	2	0.99	8	8	1	17	\$126,740	Bachelor's degree	5 years or more	None
11-9199	Managers, All Other	28,572	28,727	155	0.54	775	1,202	78	2,055	\$130,690	Bachelor's degree	Less than 5 years	None
13-0000	Business and Financial Operations Occupations	119,323	122,128	2,805	2.35	3,654	6,943	1,402	11,999	\$91,130			
13-1000	Business Operations Specialists	93,984	96,146	2,162	2.30	2,932	5,531	1,081	9,544	N/A			
13-1011	Agents and Business Managers of Artists, Performers, and Athletes	206	214	8	3.88	8	15	4	27	\$73,720	Bachelor's degree	Less than 5 years	None
13-1022	Wholesale and Retail Buyers, Except Farm Products	157	161	4	2.55	6	12	2	20	\$47,290	Bachelor's degree	None	Moderate-term OJT
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	3,294	3,247	-47	-1.43	97	181	-24	254	\$95,210	Bachelor's degree	None	Moderate-term OJT
13-1031	Claims Adjusters, Examiners, and Investigators	757	747	-10	-1.32	19	42	-5	56	\$80,070	HS or EQ	None	Long-term OJT
13-1041	Compliance Officers	4,867	5,000	133	2.73	138	248	66	452	\$86,440	Bachelor's degree	None	Moderate-term OJT
13-1051	Cost Estimators	537	569	32	5.96	18	36	16	70	\$83,660	Bachelor's degree	None	Moderate-term OJT
13-1071	Human Resources Specialists	7,998	8,132	134	1.68	234	530	67	831	\$91,940	Bachelor's degree	None	None
13-1075	Labor Relations Specialists	364	361	-3	-0.82	10	24	-2	32	\$76,230	Bachelor's degree	Less than 5 years	None
13-1081	Logisticians	1,446	1,490	44	3.04	36	104	22	162	\$99,700	Bachelor's degree	None	None
13-1111	Management Analysts	23,971	24,618	647	2.70	780	1,256	324	2,360	\$98,260	Bachelor's degree	Less than 5 years	None
13-1121	Meeting, Convention, and Event Planners	2,762	2,863	101	3.66	106	210	50	366	\$65,580	Bachelor's degree	None	None
13-1131	Fundraisers	2,290	2,381	91	3.97	72	153	46	271	\$67,700	Bachelor's degree	None	None
13-1141	Compensation, Benefits, and Job Analysis Specialists	492	509	17	3.46	12	27	8	47	\$80,530	Bachelor's degree	Less than 5 years	None
13-1151	Training and Development Specialists	1,491	1,556	65	4.36	47	98	32	177	\$72,390	Bachelor's degree	Less than 5 years	None
13-1161	Market Research Analysts and Marketing Specialists	5,898	6,328	430	7.29	162	420	215	797	\$64,690	Bachelor's degree	None	None

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Soccode	Occupational Title	Employment Projections							Occupational Separations, 2017-2019, annual average			Occupational			Worker Characteristics		
		2017		2019		Change 2017-2019			Labor Force	Occupational	Openings	Median	Typical Education	Work Experience	Typical on-the-job		
		2017	2019	Numeric	Percent	Exits	Transfers	Total	2017-2019	Annual Wage**	Needed for Entry	in a related Occupation	training needed to attain competency				
13-1199	Business Operations Specialists, All Other	37,420	37,935	515	1.38	1,182	2,174	258	3,614	\$92,980	Bachelor's degree	None	None				
13-2000	Financial Specialists	25,339	25,982	643	2.54	722	1,412	322	2,456	N/A							
13-2011	Accountants and Auditors	12,771	13,057	286	2.24	381	743	143	1,267	\$86,460	Bachelor's degree	None	None				
13-2021	Appraisers and Assessors of Real Estate	292	312	20	6.85	10	8	10	28	\$95,210	Bachelor's degree	None	Long-term OJT				
13-2031	Budget Analysts	2,246	2,276	30	1.34	61	104	15	180	\$95,220	Bachelor's degree	None	None				
13-2041	Credit Analysts	242	256	14	5.79	6	14	7	27	\$98,100	Bachelor's degree	None	None				
13-2051	Financial Analysts	3,140	3,312	172	5.48	64	202	86	352	\$89,700	Bachelor's degree	None	None				
13-2052	Personal Financial Advisors	569	600	31	5.45	14	28	16	58	\$113,600	Bachelor's degree	None	Long-term OJT				
13-2061	Financial Examiners	693	698	5	0.72	20	32	2	54	\$155,080	Bachelor's degree	None	Long-term OJT				
13-2071	Credit Counselors	87	90	3	3.45	2	5	2	9	\$50,840	Bachelor's degree	None	Moderate-term OJT				
13-2072	Loan Officers	755	792	37	4.90	18	43	18	79	\$76,900	Bachelor's degree	None	Moderate-term OJT				
13-2081	Tax Examiners and Collectors, and Revenue Agents	392	392	0	0.00	12	16	0	28	N/A	Bachelor's degree	None	Moderate-term OJT				
13-2082	Tax Preparers	209	207	-2	-0.96	12	10	-1	21	N/A	HS or EQ	None	Moderate-term OJT				
13-2099	Financial Specialists, All Other	3,910	3,957	47	1.20	121	203	24	348	\$95,210	Bachelor's degree	None	Moderate-term OJT				
15-0000	Computer and Mathematical Occupations	45,722	47,815	2,093	4.58	846	2,216	1,046	4,108	\$104,000							
15-1100	Computer Occupations	42,490	44,418	1,928	4.54	778	2,062	964	3,804	N/A							
15-1111	Computer and Information Research Scientists	776	819	43	5.54	12	41	22	75	\$121,830	Master's degree	None	None				
15-1121	Computer Systems Analysts	4,589	4,871	282	6.15	86	211	141	438	\$99,030	Bachelor's degree	None	None				
15-1122	Information Security Analysts	867	953	86	9.92	16	44	43	103	\$119,560	Bachelor's degree	Less than 5 years	None				
15-1131	Computer Programmers	1,490	1,528	38	2.55	26	68	19	113	\$93,440	Bachelor's degree	None	None				
15-1132	Software Developers, Applications	2,335	2,558	223	9.55	34	120	112	266	\$112,830	Bachelor's degree	None	None				
15-1133	Software Developers, Systems Software	3,258	3,476	218	6.69	46	166	109	321	\$107,690	Bachelor's degree	None	None				
15-1134	Web Developers	1,410	1,467	57	4.04	27	73	28	128	\$85,300	Associate's degree	None	None				
15-1141	Database Administrators	1,011	1,062	51	5.04	22	43	26	91	\$102,890	Bachelor's degree	None	None				
15-1142	Network and Computer Systems Administrators	2,828	2,964	136	4.81	40	136	68	244	\$93,320	Bachelor's degree	None	None				
15-1143	Computer Network Architects	1,259	1,333	74	5.88	18	64	37	119	\$106,770	Bachelor's degree	5 years or more	None				
15-1151	Computer User Support Specialists	4,513	4,767	254	5.63	94	239	127	460	\$60,480	Some college, no degree	None	None				
15-1152	Computer Network Support Specialists	800	850	50	6.25	17	42	25	84	\$87,570	Associate's degree	None	None				
15-1199	Computer Occupations, All Other	17,354	17,770	416	2.40	340	815	208	1,363	\$116,150	Bachelor's degree	None	None				
15-2000	Mathematical Science Occupations	3,232	3,397	165	5.11	67	154	82	303	N/A							
15-2011	Actuaries	246	248	2	0.81	3	12	1	16	\$119,780	Bachelor's degree	None	Long-term OJT				
15-2021	Mathematicians	91	96	5	5.49	2	5	2	9	\$120,030	Master's degree	None	None				
15-2031	Operations Research Analysts	1,112	1,169	57	5.13	24	43	28	95	\$115,040	Bachelor's degree	None	None				
15-2041	Statisticians	1,700	1,801	101	5.94	37	90	50	177	\$104,430	Master's degree	None	None				
15-2099	Mathematical Science Occupations, All Other	81	81	0	0.00	2	4	0	6	N/A	Bachelor's degree	None	None				
17-0000	Architecture and Engineering Occupations	13,497	13,891	394	2.92	330	588	197	1,115	\$103,610							
17-1000	Architects, Surveyors, and Cartographers	2,159	2,270	111	5.14	56	98	56	210	N/A							
17-1011	Architects, Except Landscape and Naval	2,060	2,167	107	5.19	54	94	54	202	\$81,000	Bachelor's degree	None	Internship/residency				
17-1012	Landscape Architects	60	63	3	5.00	2	2	2	6	\$89,790	Bachelor's degree	None	Internship/residency				
17-2000	Engineers	9,754	9,980	226	2.32	222	404	113	739	N/A							
17-2011	Aerospace Engineers	418	420	2	0.48	10	15	1	26	\$135,120	Bachelor's degree	None	None				
17-2031	Biomedical Engineers	53	54	1	1.89	1	2	0	3	\$69,260	Bachelor's degree	None	None				
17-2041	Chemical Engineers	118	118	0	0.00	2	5	0	7	\$116,710	Bachelor's degree	None	None				
17-2051	Civil Engineers	1,034	1,086	52	5.03	23	52	26	101	\$93,370	Bachelor's degree	None	None				
17-2061	Computer Hardware Engineers	459	485	26	5.66	9	20	13	42	\$116,590	Bachelor's degree	None	None				
17-2071	Electrical Engineers	528	547	19	3.60	12	22	10	44	\$109,440	Bachelor's degree	None	None				
17-2072	Electronics Engineers, Except Computer	701	703	2	0.29	16	28	1	45	N/A	Bachelor's degree	None	None				
17-2081	Environmental Engineers	370	378	8	2.16	8	16	4	28	\$100,760	Bachelor's degree	None	None				
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	170	176	6	3.53	4	7	3	14	\$101,380	Bachelor's degree	None	None				
17-2112	Industrial Engineers	231	246	15	6.49	6	10	8	24	\$80,510	Bachelor's degree	None	None				
17-2121	Marine Engineers and Naval Architects	922	974	52	5.64	22	34	26	82	\$124,480	Bachelor's degree	None	None				

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		2017		2019		Labor Force Exits	Occupational Transfers	Total	Openings 2017-2019	Median Annual Wage**	Typical Education Needed for Entry	Work Experience in a related Occupation	Typical on-the-job training needed to attain competency	
		2017	2019	Numeric	Percent									
17-2131	Materials Engineers	185	192	7	3.78	6	7	4	17	\$114,270	Bachelor's degree	None	None	
17-2141	Mechanical Engineers	794	825	31	3.90	16	34	16	66	\$107,500	Bachelor's degree	None	None	
17-2161	Nuclear Engineers	130	131	1	0.77	4	6	0	10	N/A	Bachelor's degree	None	None	
17-2199	Engineers, All Other	3,609	3,613	4	0.11	83	146	2	231	\$133,410	Bachelor's degree	None	None	
17-3000	Drafters, Engineering Technicians, and Mapping Technicians	1,584	1,641	57	3.60	50	85	28	163	N/A				
17-3011	Architectural and Civil Drafters	323	345	22	6.81	10	18	11	39	\$53,290	Associate's degree	None	None	
17-3012	Electrical and Electronics Drafters	125	128	3	2.40	4	7	2	13	\$80,910	Associate's degree	None	None	
17-3022	Civil Engineering Technicians	187	193	6	3.21	6	10	3	19	\$72,030	Associate's degree	None	None	
17-3023	Electrical and Electronics Engineering Technicians	382	396	14	3.66	12	20	7	39	\$75,220	Associate's degree	None	None	
17-3027	Mechanical Engineering Technicians	132	143	11	8.33	4	7	6	17	N/A	Associate's degree	None	None	
17-3029	Engineering Technicians, Except Drafters, All Other	420	421	1	0.24	14	22	0	36	\$90,410	Associate's degree	None	None	
19-0000	Life, Physical, and Social Science Occupations	27,396	27,979	583	2.13	652	1,696	292	2,640	\$98,140				
19-1000	Life Scientists	1,780	1,826	46	2.58	36	116	23	175	N/A				
19-1013	Soil and Plant Scientists	76	76	0	0.00	2	6	0	8	\$77,580	Bachelor's degree	None	None	
19-1022	Microbiologists	67	67	0	0.00	2	4	0	6	\$112,480	Bachelor's degree	None	None	
19-1023	Zoologists and Wildlife Biologists	120	120	0	0.00	2	8	0	10	\$101,360	Bachelor's degree	None	None	
19-1029	Biological Scientists, All Other	355	357	2	0.56	8	23	1	32	\$87,840	Bachelor's degree	None	None	
19-1031	Conservation Scientists	270	278	8	2.96	6	17	4	27	N/A	Bachelor's degree	None	None	
19-1041	Epidemiologists	62	63	1	1.61	1	4	0	5	\$93,360	Master's degree	None	None	
19-1042	Medical Scientists, Except Epidemiologists	718	752	34	4.74	14	47	17	78	\$73,680	Doctoral or prof. degree	None	None	
19-2000	Physical Scientists	3,982	4,022	40	1.00	84	252	20	356	N/A				
19-2011	Astronomers	99	99	0	0.00	2	6	0	8	N/A	Doctoral or prof. degree	None	None	
19-2012	Physicists	713	724	11	1.54	14	40	6	60	\$144,710	Doctoral or prof. degree	None	None	
19-2021	Atmospheric and Space Scientists	73	77	4	5.48	2	4	2	8	\$86,950	Bachelor's degree	None	None	
19-2031	Chemists	346	348	2	0.58	9	22	1	32	\$119,800	Bachelor's degree	None	None	
19-2041	Environmental Scientists and Specialists, Including Health	1,748	1,768	20	1.14	38	121	10	169	\$112,520	Bachelor's degree	None	None	
19-2042	Geoscientists, Except Hydrologists and Geographers	79	79	0	0.00	2	6	0	8	\$119,790	Bachelor's degree	None	None	
19-2043	Hydrologists	61	62	1	1.64	2	4	0	6	N/A	Bachelor's degree	None	None	
19-2099	Physical Scientists, All Other	852	854	2	0.23	15	50	1	66	\$127,050	Bachelor's degree	None	None	
19-3000	Social Scientists and Related Workers	16,998	17,338	340	2.00	349	980	170	1,499	N/A				
19-3011	Economists	9,115	9,363	248	2.72	128	510	124	762	\$114,150	Master's degree	None	None	
19-3022	Survey Researchers	547	547	0	0.00	16	34	0	50	\$73,720	Master's degree	None	None	
19-3031	Clinical, Counseling, and School Psychologists	472	491	19	4.03	12	18	10	40	\$82,560	Doctoral or prof. degree	None	Internship/residency	
19-3039	Psychologists, All Other	269	275	6	2.23	7	10	3	20	\$98,150	Master's degree	None	Internship/residency	
19-3041	Sociologists	91	94	3	3.30	2	6	2	10	N/A	Master's degree	None	None	
19-3051	Urban and Regional Planners	281	293	12	4.27	6	18	6	30	\$96,220	Master's degree	None	None	
19-3091	Anthropologists and Archeologists	82	81	-1	-1.22	2	5	0	7	\$92,150	Master's degree	None	None	
19-3093	Historians	235	234	-1	-0.43	6	14	0	20	N/A	Master's degree	None	None	
19-3094	Political Scientists	1,763	1,802	39	2.21	51	110	20	181	\$119,790	Master's degree	None	None	
19-3099	Social Scientists and Related Workers, All Other	4,111	4,126	15	0.36	118	253	8	379	\$95,210	Bachelor's degree	None	None	
19-4000	Life, Physical, and Social Science Technicians	4,636	4,793	157	3.39	184	348	78	610	N/A				
19-4021	Biological Technicians	294	304	10	3.40	8	20	5	33	\$47,780	Bachelor's degree	None	None	
19-4031	Chemical Technicians	50	51	1	2.00	2	3	0	5	\$48,870	Associate's degree	None	Moderate-term OJT	
19-4061	Social Science Research Assistants	3,678	3,810	132	3.59	150	279	66	495	\$44,310	Bachelor's degree	None	None	
19-4091	Environmental Science and Protection Technicians, Including Health	54	56	2	3.70	2	4	1	7	\$79,750	Associate's degree	None	None	
19-4092	Forensic Science Technicians	180	187	7	3.89	8	14	4	26	N/A	Bachelor's degree	None	Moderate-term OJT	
19-4099	Life, Physical, and Social Science Technicians, All Other	349	353	4	1.15	14	26	2	42	\$58,770	Associate's degree	None	None	
21-0000	Community and Social Service Occupations	12,114	12,595	481	3.97	494	834	240	1,568	\$52,240				
21-1000	Counselors, Social Workers, and Other Community and Social Service Special	11,648	12,117	469	4.03	470	802	234	1,506	N/A				
21-1011	Substance Abuse and Behavioral Disorder Counselors	178	185	7	3.93	6	12	4	22	\$45,050	Bachelor's degree	None	None	
21-1012	Educational, Guidance, School, and Vocational Counselors	1,498	1,578	80	5.34	56	100	40	196	\$60,370	Master's degree	None	None	

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		2017	2019	Numeric	Percent									
21-1014	Mental Health Counselors	915	963	48	5.25	34	62	24	120	\$43,090	Master's degree	None	Internship/residency	
21-1015	Rehabilitation Counselors	813	838	25	3.08	30	54	12	96	\$33,300	Master's degree	None	None	
21-1019	Counselors, All Other	186	193	7	3.76	7	12	4	23	\$45,080	Master's degree	None	None	
21-1021	Child, Family, and School Social Workers	2,164	2,245	81	3.74	79	140	40	259	\$61,060	Bachelor's degree	None	None	
21-1022	Healthcare Social Workers	573	598	25	4.36	21	37	12	70	\$62,960	Master's degree	None	Internship/residency	
21-1023	Mental Health and Substance Abuse Social Workers	543	558	15	2.76	20	35	8	63	\$53,860	Master's degree	None	Internship/residency	
21-1029	Social Workers, All Other	347	352	5	1.44	12	22	2	36	\$73,960	Bachelor's degree	None	None	
21-1091	Health Educators	751	768	17	2.26	34	56	8	98	\$83,820	Bachelor's degree	None	None	
21-1092	Probation Officers and Correctional Treatment Specialists	98	103	5	5.10	3	6	2	11	\$58,450	Bachelor's degree	None	Short-term OJT	
21-1093	Social and Human Service Assistants	2,092	2,174	82	3.92	96	152	41	289	\$39,780	HS or EQ	None	Short-term OJT	
21-1094	Community Health Workers	763	805	42	5.50	36	58	21	115	\$62,850	HS or EQ	None	Short-term OJT	
21-1099	Community and Social Service Specialists, All Other	715	745	30	4.20	33	54	15	102	\$45,040	Bachelor's degree	None	None	
21-2000	Religious Workers	466	478	12	2.58	24	32	6	62	N/A				
21-2011	Clergy	113	116	3	2.65	5	7	2	14	\$67,040	Bachelor's degree	None	Moderate-term OJT	
21-2021	Directors, Religious Activities and Education	182	188	6	3.30	8	14	3	25	\$61,670	Bachelor's degree	Less than 5 years	None	
21-2099	Religious Workers, All Other	171	174	3	1.75	11	12	2	25	\$65,200	Bachelor's degree	None	None	
23-0000	Legal Occupations	47,716	49,160	1,444	3.03	1,079	1,385	722	3,186	\$149,790				
23-1000	Lawyers, Judges, and Related Workers	39,391	40,514	1,123	2.85	794	864	562	2,220	N/A				
23-1011	Lawyers	38,841	39,962	1,121	2.89	782	852	560	2,194	\$160,290	Doctoral or prof. degree	None	None	
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	420	420	0	0.00	8	9	0	17	N/A	Doctoral or prof. degree	5 years or more	Short-term OJT	
23-1022	Arbitrators, Mediators, and Conciliators	116	118	2	1.72	2	2	1	5	\$82,660	Bachelor's degree	Less than 5 years	Moderate-term OJT	
23-2000	Legal Support Workers	8,325	8,646	321	3.86	286	520	160	966	N/A				
23-2011	Paralegals and Legal Assistants	6,223	6,519	296	4.76	210	424	148	782	\$73,490	Associate's degree	None	None	
23-2091	Court Reporters	95	92	-3	-3.16	4	4	-2	6	\$48,130	Postsec. non-degree	None	Short-term OJT	
23-2093	Title Examiners, Abstractors, and Searchers	63	65	2	3.17	2	3	1	6	\$65,330	HS or EQ	None	Moderate-term OJT	
23-2099	Legal Support Workers, All Other	1,944	1,970	26	1.34	69	90	13	172	\$61,920	Associate's degree	None	None	
25-0000	Education, Training, and Library Occupations	33,350	35,011	1,661	4.98	1,444	1,396	830	3,670	\$64,010				
25-1000	Postsecondary Teachers	11,101	11,585	484	4.36	415	432	242	1,089	N/A				
25-1011	Business Teachers, Postsecondary	1,395	1,474	79	5.66	52	54	40	146	\$91,130	Doctoral or prof. degree	None	None	
25-1021	Computer Science Teachers, Postsecondary	150	156	6	4.00	6	6	3	15	\$90,970	Doctoral or prof. degree	None	None	
25-1022	Mathematical Science Teachers, Postsecondary	190	196	6	3.16	7	8	3	18	\$76,490	Doctoral or prof. degree	None	None	
25-1031	Architecture Teachers, Postsecondary	204	212	8	3.92	8	8	4	20	N/A	Doctoral or prof. degree	None	None	
25-1032	Engineering Teachers, Postsecondary	121	126	5	4.13	4	4	2	10	N/A	Doctoral or prof. degree	None	None	
25-1042	Biological Science Teachers, Postsecondary	222	232	10	4.50	8	8	5	21	\$78,500	Doctoral or prof. degree	None	None	
25-1052	Chemistry Teachers, Postsecondary	98	102	4	4.08	4	4	2	10	\$92,610	Doctoral or prof. degree	None	None	
25-1054	Physics Teachers, Postsecondary	86	89	3	3.49	3	4	2	9	\$86,210	Doctoral or prof. degree	None	None	
25-1062	Area, Ethnic, and Cultural Studies Teachers, Postsecondary	366	379	13	3.55	14	14	6	34	N/A	Doctoral or prof. degree	None	None	
25-1063	Economics Teachers, Postsecondary	242	251	9	3.72	9	10	4	23	\$90,120	Doctoral or prof. degree	None	None	
25-1065	Political Science Teachers, Postsecondary	1,285	1,331	46	3.58	48	50	23	121	\$84,680	Doctoral or prof. degree	None	None	
25-1066	Psychology Teachers, Postsecondary	182	191	9	4.95	7	7	4	18	\$72,400	Doctoral or prof. degree	None	None	
25-1067	Sociology Teachers, Postsecondary	71	73	2	2.82	2	2	1	5	\$75,110	Doctoral or prof. degree	None	None	
25-1071	Health Specialties Teachers, Postsecondary	558	593	35	6.27	21	22	18	61	N/A	Doctoral or prof. degree	Less than 5 years	None	
25-1072	Nursing Instructors and Teachers, Postsecondary	233	249	16	6.87	9	9	8	26	\$70,110	Doctoral or prof. degree	Less than 5 years	None	
25-1081	Education Teachers, Postsecondary	260	270	10	3.85	10	10	5	25	\$59,320	Doctoral or prof. degree	Less than 5 years	None	
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	80	84	4	5.00	3	3	2	8	\$65,170	Doctoral or prof. degree	None	None	
25-1112	Law Teachers, Postsecondary	987	1,025	38	3.85	37	38	19	94	\$98,270	Doctoral or prof. degree	Less than 5 years	None	
25-1121	Art, Drama, and Music Teachers, Postsecondary	522	547	25	4.79	20	20	12	52	\$73,440	Master's degree	None	None	
25-1122	Communications Teachers, Postsecondary	230	238	8	3.48	8	9	4	21	\$70,990	Doctoral or prof. degree	None	None	
25-1123	English Language and Literature Teachers, Postsecondary	320	332	12	3.75	12	12	6	30	\$64,820	Doctoral or prof. degree	None	None	
25-1124	Foreign Language and Literature Teachers, Postsecondary	718	762	44	6.13	27	28	22	77	\$54,980	Doctoral or prof. degree	None	None	
25-1125	History Teachers, Postsecondary	103	107	4	3.88	4	4	2	10	\$79,690	Doctoral or prof. degree	None	None	

DISTRICT OF COLUMBIA SHORT-TERM OCCUPATIONAL PROJECTIONS, SEPARATIONS, OPENINGS, AND WORKER CHARACTERISTICS, 2017 - 2019*														
Soccode	Occupational Title	Employment Projections				Occupational Separations, 2017-2019, annual average			Occupational		Worker Characteristics			
		2017		2019		Labor Force Exits	Occupational Transfers	Total	Openings 2017-2019	Median Annual Wage**	Typical Education Needed for Entry	Work Experience in a related Occupation	Typical on-the-job training needed to attain competency	
		2017	2019	Numeric	Percent									
25-1126	Philosophy and Religion Teachers, Postsecondary	342	356	14	4.09	13	14	7	34	\$67,870	Doctoral or prof. degree	None	None	
25-1191	Graduate Teaching Assistants	491	506	15	3.05	18	19	8	45	N/A	Bachelor's degree	None	None	
25-1193	Recreation and Fitness Studies Teachers, Postsecondary	70	72	2	2.86	2	2	1	5	\$58,890	Doctoral or prof. degree	None	None	
25-1194	Vocational Education Teachers, Postsecondary	108	113	5	4.63	4	4	2	10	\$70,030	Bachelor's degree	Less than 5 years	None	
25-1199	Postsecondary Teachers, All Other	1,344	1,390	46	3.42	50	52	23	125	\$63,860	Doctoral or prof. degree	None	None	
25-2000	Preschool, Primary, Secondary, and Special Education School Teachers	10,435	11,097	662	6.34	360	416	331	1,107	N/A				
25-2011	Preschool Teachers, Except Special Education	984	1,033	49	4.98	44	54	24	122	\$34,290	Associate's degree	None	None	
25-2012	Kindergarten Teachers, Except Special Education	68	72	4	5.88	3	4	2	9	\$60,210	Bachelor's degree	None	None	
25-2021	Elementary School Teachers, Except Special Education	2,817	3,003	186	6.60	96	108	93	297	\$72,880	Bachelor's degree	None	None	
25-2022	Middle School Teachers, Except Special and Career/Technical Education	1,469	1,567	98	6.67	50	56	49	155	\$69,710	Bachelor's degree	None	None	
25-2031	Secondary School Teachers, Except Special and Career/Technical Education	3,147	3,344	197	6.26	100	121	98	319	\$61,160	Bachelor's degree	None	None	
25-2052	Special Education Teachers, Kindergarten and Elementary School	751	800	49	6.52	26	28	24	78	\$62,520	Bachelor's degree	None	None	
25-2053	Special Education Teachers, Middle School	210	224	14	6.67	7	8	7	22	\$61,510	Bachelor's degree	None	None	
25-2054	Special Education Teachers, Secondary School	666	711	45	6.76	23	25	22	70	\$65,480	Bachelor's degree	None	None	
25-2059	Special Education Teachers, All Other	271	287	16	5.90	10	10	8	28	\$58,850	Bachelor's degree	None	None	
25-3000	Other Teachers and Instructors	3,155	3,319	164	5.20	198	152	82	432	N/A				
25-3011	Adult Basic and Secondary Education and Literacy Teachers and Instructors	217	225	8	3.69	14	10	4	28	\$44,360	Bachelor's degree	None	None	
25-3021	Self-Enrichment Education Teachers	304	326	22	7.24	19	14	11	44	\$51,880	HS or EQ	Less than 5 years	None	
25-3097	Teachers and Instructors, All Other, Except Substitute Teachers	2,533	2,660	127	5.01	158	122	64	344	\$68,010	Bachelor's degree	None	None	
25-3098	Substitute Teachers	101	108	7	6.93	6	5	4	15	\$36,530	Bachelor's degree	None	None	
25-4000	Librarians, Curators, and Archivists	2,810	2,873	63	2.24	158	134	32	324	N/A				
25-4011	Archivists	213	214	1	0.47	9	12	0	21	\$74,850	Master's degree	None	None	
25-4012	Curators	177	180	3	1.69	8	10	2	20	\$81,880	Master's degree	None	None	
25-4013	Museum Technicians and Conservators	547	549	2	0.37	23	32	1	56	\$65,910	Bachelor's degree	None	None	
25-4021	Librarians	1,261	1,305	44	3.49	70	48	22	140	\$80,080	Master's degree	None	None	
25-4031	Library Technicians	612	625	13	2.12	48	32	6	86	\$49,510	Postsec. non-degree	None	None	
25-9000	Other Education, Training, and Library Occupations	5,849	6,137	288	4.92	314	264	144	722	N/A				
25-9031	Instructional Coordinators	1,690	1,757	67	3.96	82	70	34	186	\$91,280	Master's degree	5 years or more	None	
25-9041	Teacher Assistants	3,781	3,993	212	5.61	214	178	106	498	\$32,390	Some college, no degree	None	None	
25-9099	Education, Training, and Library Workers, All Other	341	348	7	2.05	16	14	4	34	\$55,730	Bachelor's degree	None	None	
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations	40,112	41,425	1,313	3.27	1,342	2,458	656	4,456	\$77,410				
27-1000	Art and Design Workers	6,273	6,438	165	2.63	263	280	82	625	N/A				
27-1011	Art Directors	729	766	37	5.08	36	22	18	76	\$78,540	Bachelor's degree	5 years or more	None	
27-1014	Multimedia Artists and Animators	134	139	5	3.73	6	4	2	12	\$74,870	Bachelor's degree	None	None	
27-1019	Artists and Related Workers, All Other	1,927	1,927	0	0.00	94	56	0	150	\$90,410	No formal educ. creden	None	Long-term OJT	
27-1023	Floral Designers	131	131	0	0.00	4	8	0	12	\$34,240	HS or EQ	None	Moderate-term OJT	
27-1024	Graphic Designers	1,875	1,939	64	3.41	68	107	32	207	\$68,470	Bachelor's degree	None	None	
27-1025	Interior Designers	915	955	40	4.37	33	52	20	105	\$68,280	Bachelor's degree	None	None	
27-1026	Merchandise Displayers and Window Trimmers	149	153	4	2.68	6	8	2	16	\$41,470	HS or EQ	None	Short-term OJT	
27-1027	Set and Exhibit Designers	308	318	10	3.25	11	18	5	34	\$72,440	Bachelor's degree	None	None	
27-2000	Entertainers and Performers, Sports and Related Workers	3,576	3,727	151	4.22	137	220	76	433	N/A				
27-2011	Actors	391	405	14	3.58	19	20	7	46	N/A	Some college, no degree	None	Long-term OJT	
27-2012	Producers and Directors	2,075	2,162	87	4.19	53	131	44	228	\$79,070	Bachelor's degree	Less than 5 years	None	
27-2022	Coaches and Scouts	437	452	15	3.43	25	34	8	67	\$45,450	Bachelor's degree	None	None	
27-2031	Dancers	94	101	7	7.45	6	7	4	17	N/A	No formal educ. creden	None	Long-term OJT	
27-2032	Choreographers	100	105	5	5.00	6	7	2	15	\$46,130	HS or EQ	5 years or more	Long-term OJT	
27-2041	Music Directors and Composers	81	85	4	4.94	5	3	2	10	\$40,880	Bachelor's degree	Less than 5 years	None	
27-2042	Musicians and Singers	229	238	9	3.93	14	8	4	26	N/A	No formal educ. creden	None	Long-term OJT	
27-2099	Entertainers and Performers, Sports and Related Workers, All Other	142	150	8	5.63	7	8	4	19	N/A	No formal educ. creden	None	Short-term OJT	
27-3000	Media and Communication Workers	27,162	28,068	906	3.34	848	1,770	453	3,071	N/A				
27-3011	Radio and Television Announcers	205	208	3	1.46	9	11	2	22	\$62,630	Bachelor's degree	None	None	

DISTRICT OF COLUMBIA SHORT-TERM OCCUPATIONAL PROJECTIONS, SEPARATIONS, OPENINGS, AND WORKER CHARACTERISTICS, 2017 - 2019*														
Soccode	Occupational Title	Employment Projections				Occupational Separations, 2017-2019, annual average			Occupational		Worker Characteristics			
		2017		2019		Labor Force Exits	Occupational Transfers	Total	Openings 2017-2019	Median Annual Wage**	Typical Education Needed for Entry	Work Experience in a related Occupation	Typical on-the-job training needed to attain competency	
		2017	2019	Numeric	Percent									
27-3021	Broadcast News Analysts	106	111	5	4.72	4	7	2	13	N/A	Bachelor's degree	None	None	
27-3022	Reporters and Correspondents	2,665	2,754	89	3.34	84	179	44	307	\$79,710	Bachelor's degree	None	None	
27-3031	Public Relations Specialists	17,294	17,908	614	3.55	493	1,191	307	1,991	\$78,170	Bachelor's degree	None	None	
27-3041	Editors	3,226	3,302	76	2.36	108	206	38	352	\$78,310	Bachelor's degree	Less than 5 years	None	
27-3042	Technical Writers	895	951	56	6.26	30	56	28	114	\$83,200	Bachelor's degree	Less than 5 years	Short-term OJT	
27-3043	Writers and Authors	2,057	2,091	34	1.65	88	88	17	193	\$91,120	Bachelor's degree	None	Long-term OJT	
27-3091	Interpreters and Translators	511	532	21	4.11	24	22	10	56	\$92,150	Bachelor's degree	None	None	
27-3099	Media and Communication Workers, All Other	199	207	8	4.02	9	9	4	22	\$63,140	HS or EQ	None	Short-term OJT	
27-4000	Media and Communication Equipment Workers	3,101	3,192	91	2.93	94	188	46	328	N/A				
27-4011	Audio and Video Equipment Technicians	622	644	22	3.54	18	39	11	68	\$55,890	Postsec. non-degree	None	Short-term OJT	
27-4012	Broadcast Technicians	700	728	28	4.00	20	44	14	78	\$83,550	Associate's degree	None	Short-term OJT	
27-4013	Radio Operators	78	78	0	0.00	2	5	0	7	N/A	HS or EQ	None	Short-term OJT	
27-4014	Sound Engineering Technicians	105	111	6	5.71	3	6	3	12	\$53,340	Postsec. non-degree	None	Short-term OJT	
27-4021	Photographers	280	278	-2	-0.71	12	10	-1	21	\$57,400	HS or EQ	None	Long-term OJT	
27-4031	Camera Operators, Television, Video, and Motion Picture	744	773	29	3.90	22	48	14	84	\$88,050	Bachelor's degree	None	None	
27-4032	Film and Video Editors	158	166	8	5.06	5	10	4	19	\$77,470	Bachelor's degree	None	None	
27-4099	Media and Communication Equipment Workers, All Other	414	414	0	0.00	12	26	0	38	N/A	HS or EQ	None	Short-term OJT	
29-0000	Healthcare Practitioners and Technical Occupations	31,360	32,524	1,164	3.71	802	768	582	2,152	\$75,160				
29-1000	Health Diagnosing and Treating Practitioners	21,551	22,367	816	3.79	519	422	408	1,349	N/A				
29-1021	Dentists, General	281	290	9	3.20	6	2	4	12	\$104,800	Doctoral or prof. degree	None	None	
29-1031	Dietitians and Nutritionists	279	290	11	3.94	9	8	6	23	\$63,160	Bachelor's degree	None	Internship/residency	
29-1041	Optometrists	106	113	7	6.60	2	2	4	8	\$74,220	Doctoral or prof. degree	None	None	
29-1051	Pharmacists	821	848	27	3.29	19	16	14	49	\$122,050	Doctoral or prof. degree	None	None	
29-1061	Anesthesiologists	221	229	8	3.62	4	2	4	10	N/A	Doctoral or prof. degree	None	Internship/residency	
29-1062	Family and General Practitioners	685	708	23	3.36	10	8	12	30	\$180,060	Doctoral or prof. degree	None	Internship/residency	
29-1063	Internists, General	1,220	1,266	46	3.77	18	14	23	55	\$63,670	Doctoral or prof. degree	None	Internship/residency	
29-1064	Obstetricians and Gynecologists	122	127	5	4.10	2	2	2	6	\$140,860	Doctoral or prof. degree	None	Internship/residency	
29-1065	Pediatricians, General	326	339	13	3.99	5	4	6	15	\$106,650	Doctoral or prof. degree	None	Internship/residency	
29-1066	Psychiatrists	229	235	6	2.62	4	2	3	9	\$118,420	Doctoral or prof. degree	None	Internship/residency	
29-1067	Surgeons	351	364	13	3.70	5	4	6	15	\$161,300	Doctoral or prof. degree	None	Internship/residency	
29-1069	Physicians and Surgeons, All Other	2,269	2,324	55	2.42	34	26	28	88	\$172,340	Doctoral or prof. degree	None	Internship/residency	
29-1071	Physician Assistants	404	432	28	6.93	8	15	14	37	\$103,640	Master's degree	None	None	
29-1081	Podiatrists	63	65	2	3.17	2	2	1	5	\$120,600	Doctoral or prof. degree	None	Internship/residency	
29-1122	Occupational Therapists	432	456	24	5.56	9	12	12	33	\$85,930	Master's degree	None	None	
29-1123	Physical Therapists	663	699	36	5.43	13	14	18	45	\$82,420	Doctoral or prof. degree	None	None	
29-1124	Radiation Therapists	117	121	4	3.42	3	2	2	7	\$77,010	Associate's degree	None	None	
29-1125	Recreational Therapists	208	217	9	4.33	6	6	4	16	\$53,420	Bachelor's degree	None	None	
29-1126	Respiratory Therapists	391	410	19	4.86	10	9	10	29	\$69,850	Associate's degree	None	None	
29-1127	Speech-Language Pathologists	397	418	21	5.29	8	12	10	30	\$87,550	Master's degree	None	Internship/residency	
29-1131	Veterinarians	138	143	5	3.62	2	2	2	6	\$97,610	Doctoral or prof. degree	None	None	
29-1141	Registered Nurses	10,321	10,713	392	3.80	301	228	196	725	\$80,010	Bachelor's degree	None	None	
29-1151	Nurse Anesthetists	110	114	4	3.64	2	4	2	8	\$161,650	Master's degree	None	None	
29-1171	Nurse Practitioners	543	581	38	7.00	11	16	19	46	\$104,450	Master's degree	None	None	
29-1181	Audiologists	97	102	5	5.15	2	2	2	6	\$106,230	Doctoral or prof. degree	None	None	
29-1199	Health Diagnosing and Treating Practitioners, All Other	628	631	3	0.48	25	6	2	33	\$116,140	Master's degree	None	None	
29-2000	Health Technologists and Technicians	9,101	9,426	325	3.57	268	326	162	756	N/A				
29-2011	Medical and Clinical Laboratory Technologists	789	820	31	3.93	24	24	16	64	\$66,930	Bachelor's degree	None	None	
29-2012	Medical and Clinical Laboratory Technicians	492	510	18	3.66	15	15	9	39	\$41,450	Associate's degree	None	None	
29-2021	Dental Hygienists	403	418	15	3.72	15	9	8	32	N/A	Associate's degree	None	None	
29-2031	Cardiovascular Technologists and Technicians	136	140	4	2.94	4	4	2	10	\$76,040	Associate's degree	None	None	
29-2032	Diagnostic Medical Sonographers	158	167	9	5.70	4	4	4	12	\$88,880	Associate's degree	None	None	

DISTRICT OF COLUMBIA SHORT-TERM OCCUPATIONAL PROJECTIONS, SEPARATIONS, OPENINGS, AND WORKER CHARACTERISTICS, 2017 - 2019*													
Soccode	Occupational Title	Employment Projections				Occupational Separations, 2017-2019, annual average			Occupational		Worker Characteristics		
		2017		2019		Labor Force Exits	Occupational Transfers	Total	Openings 2017-2019	Median Annual Wage**	Typical Education Needed for Entry	Work Experience in a related Occupation	Typical on-the-job training needed to attain competency
		2017	2019	Numeric	Percent								
29-2034	Radiologic Technologists	531	547	16	3.01	14	14	8	36	\$76,420	Associate's degree	None	None
29-2035	Magnetic Resonance Imaging Technologists	78	81	3	3.85	2	2	2	6	\$88,050	Associate's degree	Less than 5 years	None
29-2041	Emergency Medical Technicians and Paramedics	1,684	1,742	58	3.44	30	70	29	129	\$59,790	Postsec. non-degree	None	None
29-2051	Dietetic Technicians	73	75	2	2.74	2	4	1	7	\$30,450	Associate's degree	None	None
29-2052	Pharmacy Technicians	983	1,029	46	4.68	32	44	23	99	\$35,200	HS or EQ	None	Moderate-term OJT
29-2053	Psychiatric Technicians	128	131	3	2.34	4	6	2	12	\$36,820	Postsec. non-degree	Less than 5 years	Short-term OJT
29-2054	Respiratory Therapy Technicians	131	120	-11	-8.40	4	6	-6	4	\$73,790	Associate's degree	None	None
29-2055	Surgical Technologists	264	273	9	3.41	8	12	4	24	\$57,340	Postsec. non-degree	None	None
29-2056	Veterinary Technologists and Technicians	151	156	5	3.31	5	7	2	14	\$32,490	Associate's degree	None	None
29-2061	Licensed Practical and Licensed Vocational Nurses	1,746	1,808	62	3.55	62	62	31	155	\$53,740	Postsec. non-degree	None	None
29-2071	Medical Records and Health Information Technicians	497	516	19	3.82	15	15	10	40	N/A	Postsec. non-degree	None	None
29-2081	Opticians, Dispensing	294	306	12	4.08	10	11	6	27	\$41,280	HS or EQ	None	Long-term OJT
29-2099	Health Technologists and Technicians, All Other	468	485	17	3.63	13	16	8	37	\$43,070	Postsec. non-degree	None	None
29-9000	Other Healthcare Practitioners and Technical Occupations	708	731	23	3.25	16	20	12	48	N/A			
29-9011	Occupational Health and Safety Specialists	439	450	11	2.51	10	12	6	28	\$88,620	Bachelor's degree	None	None
29-9012	Occupational Health and Safety Technicians	52	54	2	3.85	1	2	1	4	\$78,030	HS or EQ	None	Moderate-term OJT
29-9091	Athletic Trainers	71	76	5	7.04	2	2	2	6	\$58,490	Bachelor's degree	None	None
29-9099	Healthcare Practitioners and Technical Workers, All Other	113	116	3	2.65	2	3	2	7	\$85,880	Postsec. non-degree	None	None
31-0000	Healthcare Support Occupations	12,047	12,813	766	6.36	713	670	383	1,766	\$30,320			
31-1000	Nursing, Psychiatric, and Home Health Aides	8,448	9,047	599	7.09	532	442	300	1,274	N/A			
31-1011	Home Health Aides	4,930	5,435	505	10.24	315	262	252	829	\$27,880	HS or EQ	None	Short-term OJT
31-1013	Psychiatric Aides	269	277	8	2.97	16	14	4	34	\$24,960	HS or EQ	None	Short-term OJT
31-1014	Nursing Assistants	3,016	3,094	78	2.59	186	154	39	379	\$33,020	Postsec. non-degree	None	None
31-1015	Orderlies	233	241	8	3.43	14	12	4	30	\$29,640	HS or EQ	None	Short-term OJT
31-2000	Occupational Therapy and Physical Therapist Assistants and Aides	321	341	20	6.23	15	24	10	49	N/A			
31-2012	Occupational Therapy Aides	60	64	4	6.67	3	4	2	9	\$36,220	HS or EQ	None	Short-term OJT
31-2021	Physical Therapist Assistants	143	151	8	5.59	6	11	4	21	\$39,280	Associate's degree	None	None
31-2022	Physical Therapist Aides	79	83	4	5.06	4	6	2	12	\$32,320	HS or EQ	None	Short-term OJT
31-9000	Other Healthcare Support Occupations	3,278	3,425	147	4.48	166	202	74	442	N/A			
31-9011	Massage Therapists	65	67	2	3.08	4	2	1	7	N/A	Postsec. non-degree	None	None
31-9091	Dental Assistants	656	681	25	3.81	34	38	12	84	\$43,720	Postsec. non-degree	None	None
31-9092	Medical Assistants	1,581	1,668	87	5.50	72	100	44	216	\$38,610	Postsec. non-degree	None	None
31-9093	Medical Equipment Preparers	254	265	11	4.33	16	16	6	38	\$39,400	HS or EQ	None	Moderate-term OJT
31-9095	Pharmacy Aides	84	86	2	2.38	6	6	1	13	N/A	HS or EQ	None	Short-term OJT
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	88	92	4	4.55	5	8	2	15	\$27,140	HS or EQ	None	Short-term OJT
31-9097	Phlebotomists	264	275	11	4.17	12	16	6	34	\$40,000	Postsec. non-degree	None	None
31-9099	Healthcare Support Workers, All Other	244	250	6	2.46	16	14	3	33	\$44,300	HS or EQ	None	None
33-0000	Protective Service Occupations	30,823	31,485	662	2.15	1,524	1,772	331	3,627	\$54,840			
33-1000	Supervisors of Protective Service Workers	2,681	2,717	36	1.34	94	103	18	215	N/A			
33-1012	First-Line Supervisors of Police and Detectives	1,438	1,442	4	0.28	40	44	2	86	N/A	HS or EQ	Less than 5 years	Moderate-term OJT
33-1021	First-Line Supervisors of Fire Fighting and Prevention Workers	198	200	2	1.01	6	6	1	13	N/A	Postsec. non-degree	Less than 5 years	Moderate-term OJT
33-1099	First-Line Supervisors of Protective Service Workers, All Other	1,003	1,034	31	3.09	46	51	16	113	\$54,460	HS or EQ	Less than 5 years	None
33-2000	Fire Fighting and Prevention Workers	694	702	8	1.15	18	30	4	52	N/A			
33-2011	Firefighters	636	643	7	1.10	14	27	4	45	N/A	Postsec. non-degree	None	Long-term OJT
33-2021	Fire Inspectors and Investigators	58	59	1	1.72	3	3	0	6	N/A	Postsec. non-degree	5 years or more	Moderate-term OJT
33-3000	Law Enforcement Workers	10,859	10,884	25	0.23	288	414	12	714	N/A			
33-3012	Correctional Officers and Jailers	896	897	1	0.11	32	40	0	72	\$49,640	HS or EQ	None	Moderate-term OJT
33-3021	Detectives and Criminal Investigators	3,497	3,498	1	0.03	93	122	0	215	\$130,540	HS or EQ	Less than 5 years	Moderate-term OJT
33-3041	Parking Enforcement Workers	258	240	-18	-6.98	14	8	-9	13	\$53,260	HS or EQ	None	Short-term OJT
33-3051	Police and Sheriff's Patrol Officers	6,208	6,249	41	0.66	150	242	20	412	\$72,870	HS or EQ	None	Moderate-term OJT
33-9000	Other Protective Service Workers	16,589	17,182	593	3.57	1,123	1,226	296	2,645	N/A			

DISTRICT OF COLUMBIA SHORT-TERM OCCUPATIONAL PROJECTIONS, SEPARATIONS, OPENINGS, AND WORKER CHARACTERISTICS, 2017 - 2019*														
Soccode	Occupational Title	Employment Projections				Occupational Separations, 2017-2019, annual average			Occupational		Worker Characteristics			
		2017		2019		Labor Force Exits	Occupational Transfers	Total	Openings 2017-2019	Median Annual Wage**	Typical Education Needed for Entry	Work Experience in a related Occupation	Typical on-the-job training needed to attain competency	
		2017	2019	Numeric	Percent									
33-9021	Private Detectives and Investigators	108	116	8	7.41	6	5	4	15	\$61,690	HS or EQ	Less than 5 years	Moderate-term OJT	
33-9032	Security Guards	14,909	15,460	551	3.70	900	1,071	276	2,247	\$42,740	HS or EQ	None	Short-term OJT	
33-9091	Crossing Guards	246	252	6	2.44	35	10	3	48	\$33,170	No formal educ. creden	None	Short-term OJT	
33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	229	235	6	2.62	32	24	3	59	\$34,060	No formal educ. creden	None	Short-term OJT	
33-9099	Protective Service Workers, All Other	1,060	1,080	20	1.89	148	113	10	271	\$37,620	HS or EQ	None	Short-term OJT	
35-0000	Food Preparation and Serving Related Occupations	57,317	59,535	2,218	3.87	4,312	5,432	1,109	10,853	\$24,490				
35-1000	Supervisors of Food Preparation and Serving Workers	5,072	5,276	204	4.02	216	488	102	806	N/A				
35-1011	Chefs and Head Cooks	1,221	1,269	48	3.93	40	114	24	178	\$56,990	HS or EQ	5 years or more	None	
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	3,851	4,007	156	4.05	176	375	78	629	\$37,250	HS or EQ	Less than 5 years	None	
35-2000	Cooks and Food Preparation Workers	13,986	14,549	563	4.03	914	1,166	282	2,362	N/A				
35-2011	Cooks, Fast Food	2,100	2,130	30	1.43	124	169	15	308	\$22,200	No formal educ. creden	None	Short-term OJT	
35-2012	Cooks, Institution and Cafeteria	1,660	1,741	81	4.88	100	136	40	276	\$32,710	No formal educ. creden	None	Short-term OJT	
35-2014	Cooks, Restaurant	6,278	6,552	274	4.36	376	513	137	1,026	\$26,860	No formal educ. creden	Less than 5 years	Moderate-term OJT	
35-2015	Cooks, Short Order	338	342	4	1.18	20	27	2	49	\$28,110	No formal educ. creden	None	Short-term OJT	
35-2021	Food Preparation Workers	3,579	3,753	174	4.86	293	318	87	698	\$24,380	No formal educ. creden	None	Short-term OJT	
35-3000	Food and Beverage Serving Workers	25,938	26,965	1,027	3.96	2,062	2,702	514	5,278	N/A				
35-3011	Bartenders	4,425	4,549	124	2.80	216	514	62	792	\$27,000	No formal educ. creden	None	Short-term OJT	
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	9,219	9,738	519	5.63	840	878	260	1,978	\$23,430	No formal educ. creden	None	Short-term OJT	
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	1,717	1,774	57	3.32	210	165	28	403	\$24,490	No formal educ. creden	None	Short-term OJT	
35-3031	Waiters and Waitresses	8,888	9,193	305	3.43	669	1,026	152	1,847	\$22,010	No formal educ. creden	None	Short-term OJT	
35-3041	Food Servers, Nonrestaurant	1,689	1,711	22	1.30	128	120	11	259	\$27,540	No formal educ. creden	None	Short-term OJT	
35-9000	Other Food Preparation and Serving Related Workers	12,321	12,745	424	3.44	1,120	1,076	212	2,408	N/A				
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	4,871	5,048	177	3.63	442	393	88	923	\$23,430	No formal educ. creden	None	Short-term OJT	
35-9021	Dishwashers	4,379	4,513	134	3.06	329	354	67	750	\$24,010	No formal educ. creden	None	Short-term OJT	
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	2,638	2,733	95	3.60	310	294	48	652	\$24,450	No formal educ. creden	None	Short-term OJT	
35-9099	Food Preparation and Serving Related Workers, All Other	433	451	18	4.16	40	35	9	84	\$22,420	No formal educ. creden	None	Short-term OJT	
37-0000	Building and Grounds Cleaning and Maintenance Occupations	26,633	27,615	982	3.69	1,788	1,660	491	3,939	\$29,640				
37-1000	Supervisors of Building and Grounds Cleaning and Maintenance Workers	1,611	1,673	62	3.85	81	99	31	211	N/A				
37-1011	First-Line Supervisors of Housekeeping and Janitorial Workers	1,528	1,587	59	3.86	78	94	30	202	\$39,620	HS or EQ	Less than 5 years	None	
37-1012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	83	86	3	3.61	2	5	2	9	\$68,240	HS or EQ	Less than 5 years	None	
37-2000	Building Cleaning and Pest Control Workers	24,090	24,980	890	3.69	1,662	1,493	445	3,600	N/A				
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	16,706	17,383	677	4.05	1,110	1,072	338	2,520	\$27,920	No formal educ. creden	None	Short-term OJT	
37-2012	Maids and Housekeeping Cleaners	7,324	7,536	212	2.89	550	416	106	1,072	\$35,040	No formal educ. creden	None	Short-term OJT	
37-3000	Grounds Maintenance Workers	932	962	30	3.22	44	68	15	127	N/A				
37-3011	Landscaping and Groundskeeping Workers	791	817	26	3.29	38	58	13	109	\$36,860	No formal educ. creden	None	Short-term OJT	
37-3019	Grounds Maintenance Workers, All Other	69	72	3	4.35	4	5	2	11	\$43,680	No formal educ. creden	None	Short-term OJT	
39-0000	Personal Care and Service Occupations	18,355	19,419	1,064	5.80	1,436	1,366	532	3,334	\$28,460				
39-1000	Supervisors of Personal Care and Service Workers	413	430	17	4.12	20	22	8	50	N/A				
39-1021	First-Line Supervisors of Personal Service Workers	379	393	14	3.69	18	18	7	43	\$47,060	HS or EQ	Less than 5 years	None	
39-2000	Animal Care and Service Workers	470	498	28	5.96	33	38	14	85	N/A				
39-2021	Nonfarm Animal Caretakers	460	488	28	6.09	32	38	14	84	\$31,690	HS or EQ	None	Short-term OJT	
39-3000	Entertainment Attendants and Related Workers	1,387	1,502	115	8.29	170	161	58	389	N/A				
39-3011	Gaming Dealers	108	117	9	8.33	6	10	4	20	N/A	HS or EQ	None	Short-term OJT	
39-3031	Ushers, Lobby Attendants, and Ticket Takers	907	986	79	8.71	124	106	40	270	N/A	No formal educ. creden	None	Short-term OJT	
39-3091	Amusement and Recreation Attendants	223	239	16	7.17	24	28	8	60	\$24,130	No formal educ. creden	None	Short-term OJT	
39-3092	Costume Attendants	83	89	6	7.23	9	10	3	22	\$37,800	HS or EQ	None	Short-term OJT	
39-4000	Funeral Service Workers	52	53	1	1.92	3	4	0	7	N/A				
39-5000	Personal Appearance Workers	1,824	1,870	46	2.52	116	92	23	231	N/A				
39-5011	Barbers	202	205	3	1.49	9	9	2	20	\$35,740	Postsec. non-degree	None	None	
39-5012	Hairdressers, Hairstylists, and Cosmetologists	1,312	1,347	35	2.67	88	66	18	172	\$29,590	Postsec. non-degree	None	None	
39-5091	Makeup Artists, Theatrical and Performance	69	71	2	2.90	4	4	1	9	\$92,850	Postsec. non-degree	None	None	

DISTRICT OF COLUMBIA SHORT-TERM OCCUPATIONAL PROJECTIONS, SEPARATIONS, OPENINGS, AND WORKER CHARACTERISTICS, 2017 - 2019*														
Soccode	Occupational Title	Employment Projections				Occupational Separations, 2017-2019, annual average			Occupational		Worker Characteristics			
		2017		2019		Labor Force Exits	Occupational Transfers	Total	Openings 2017-2019	Median Annual Wage**	Typical Education Needed for Entry	Work Experience in a related Occupation	Typical on-the-job training needed to attain competency	
		2017	2019	Numeric	Percent									
39-5092	Manicurists and Pedicurists	57	58	1	1.75	4	3	0	7	\$29,680	Postsec. non-degree	None	None	
39-5093	Shampooers	140	144	4	2.86	8	7	2	17	\$22,480	No formal educ. creden	None	Short-term OJT	
39-6000	Baggage Porters, Bellhops, and Concierges	1,377	1,437	60	4.36	67	124	30	221	N/A				
39-6011	Baggage Porters and Bellhops	593	610	17	2.87	28	53	8	89	\$25,470	HS or EQ	None	Short-term OJT	
39-6012	Concierges	784	827	43	5.48	38	70	22	130	\$32,550	HS or EQ	None	Moderate-term OJT	
39-7000	Tour and Travel Guides	507	519	12	2.37	45	43	6	94	N/A				
39-7011	Tour Guides and Escorts	464	476	12	2.59	41	40	6	87	\$32,010	HS or EQ	None	Moderate-term OJT	
39-9000	Other Personal Care and Service Workers	12,325	13,110	785	6.37	981	884	392	2,257	N/A				
39-9011	Childcare Workers	3,514	3,645	131	3.73	292	222	66	580	\$24,730	HS or EQ	None	Short-term OJT	
39-9021	Personal Care Aides	5,963	6,476	513	8.60	496	374	256	1,126	\$27,490	HS or EQ	None	Short-term OJT	
39-9031	Fitness Trainers and Aerobics Instructors	1,164	1,244	80	6.87	79	120	40	239	\$49,670	HS or EQ	None	Short-term OJT	
39-9032	Recreation Workers	647	662	15	2.32	43	66	8	117	\$46,180	HS or EQ	None	Short-term OJT	
39-9041	Residential Advisors	911	955	44	4.83	62	92	22	176	\$29,830	HS or EQ	None	Short-term OJT	
39-9099	Personal Care and Service Workers, All Other	126	128	2	1.59	8	10	1	19	\$23,780	HS or EQ	None	Short-term OJT	
41-0000	Sales and Related Occupations	28,627	29,538	911	3.18	1,796	2,312	456	4,564	\$30,810				
41-1000	Supervisors of Sales Workers	2,237	2,313	76	3.40	82	147	38	267	N/A				
41-1011	First-Line Supervisors of Retail Sales Workers	1,709	1,769	60	3.51	64	117	30	211	\$46,530	HS or EQ	Less than 5 years	None	
41-1012	First-Line Supervisors of Non-Retail Sales Workers	528	544	16	3.03	18	30	8	56	\$72,580	HS or EQ	Less than 5 years	None	
41-2000	Retail Sales Workers	16,457	16,958	501	3.04	1,348	1,442	250	3,040	N/A				
41-2011	Cashiers	9,537	9,812	275	2.88	908	886	138	1,932	\$23,860	No formal educ. creden	None	Short-term OJT	
41-2021	Counter and Rental Clerks	503	532	29	5.77	27	38	14	79	\$32,180	No formal educ. creden	None	Short-term OJT	
41-2031	Retail Salespersons	6,393	6,589	196	3.07	411	515	98	1,024	\$27,520	No formal educ. creden	None	Short-term OJT	
41-3000	Sales Representatives, Services	6,420	6,615	195	3.04	214	508	98	820	N/A				
41-3011	Advertising Sales Agents	802	829	27	3.37	30	70	14	114	\$55,880	HS or EQ	None	Moderate-term OJT	
41-3021	Insurance Sales Agents	355	367	12	3.38	14	20	6	40	\$40,810	HS or EQ	None	Moderate-term OJT	
41-3031	Securities, Commodities, and Financial Services Sales Agents	1,575	1,632	57	3.62	42	106	28	176	\$67,160	Bachelor's degree	None	Moderate-term OJT	
41-3041	Travel Agents	431	421	-10	-2.32	23	26	-5	44	\$46,960	HS or EQ	None	Moderate-term OJT	
41-3099	Sales Representatives, Services, All Other	3,257	3,366	109	3.35	104	286	54	444	\$64,320	HS or EQ	None	Moderate-term OJT	
41-4000	Sales Representatives, Wholesale and Manufacturing	1,541	1,610	69	4.48	52	106	34	192	N/A				
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific	542	565	23	4.24	18	37	12	67	\$75,490	Bachelor's degree	None	Moderate-term OJT	
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific	999	1,045	46	4.60	34	68	23	125	\$69,840	HS or EQ	None	Moderate-term OJT	
41-9000	Other Sales and Related Workers	1,972	2,042	70	3.55	100	111	35	246	N/A				
41-9011	Demonstrators and Product Promoters	73	78	5	6.85	8	5	2	15	\$34,240	No formal educ. creden	None	Short-term OJT	
41-9021	Real Estate Brokers	277	288	11	3.97	14	11	6	31	\$93,620	HS or EQ	Less than 5 years	None	
41-9022	Real Estate Sales Agents	929	961	32	3.44	48	37	16	101	\$66,790	HS or EQ	None	Moderate-term OJT	
41-9031	Sales Engineers	308	328	20	6.49	8	24	10	42	\$104,200	Bachelor's degree	None	Moderate-term OJT	
41-9041	Telemarketers	231	229	-2	-0.87	14	22	-1	35	\$24,570	No formal educ. creden	None	Short-term OJT	
41-9099	Sales and Related Workers, All Other	140	143	3	2.14	8	11	2	21	\$34,730	HS or EQ	None	None	
43-0000	Office and Administrative Support Occupations	85,846	87,199	1,353	1.58	4,504	5,058	676	10,238	\$47,550				
43-1000	Supervisors of Office and Administrative Support Workers	5,374	5,502	128	2.38	211	314	64	589	N/A				
43-1011	First-Line Supervisors of Office and Administrative Support Workers	5,374	5,502	128	2.38	211	314	64	589	\$73,280	HS or EQ	Less than 5 years	None	
43-2000	Communications Equipment Operators	354	348	-6	-1.69	22	24	-3	43	N/A				
43-2011	Switchboard Operators, Including Answering Service	299	294	-5	-1.67	18	20	-2	36	\$38,930	HS or EQ	None	Short-term OJT	
43-2021	Telephone Operators	50	49	-1	-2.00	3	4	0	7	\$41,790	HS or EQ	None	Short-term OJT	
43-3000	Financial Clerks	7,217	7,363	146	2.02	400	392	73	865	N/A				
43-3011	Bill and Account Collectors	212	217	5	2.36	8	14	2	24	\$57,650	HS or EQ	None	Moderate-term OJT	
43-3021	Billing and Posting Clerks	863	900	37	4.29	38	48	18	104	\$56,870	HS or EQ	None	Moderate-term OJT	
43-3031	Bookkeeping, Accounting, and Auditing Clerks	4,126	4,194	68	1.65	258	200	34	492	\$55,010	Some college, no degree	None	Moderate-term OJT	
43-3041	Gaming Cage Workers	93	102	9	9.68	6	9	4	19	N/A	HS or EQ	None	Short-term OJT	
43-3051	Payroll and Timekeeping Clerks	476	484	8	1.68	20	27	4	51	\$59,860	HS or EQ	None	Moderate-term OJT	
43-3061	Procurement Clerks	367	367	0	0.00	16	24	0	40	\$54,070	HS or EQ	None	Moderate-term OJT	

DISTRICT OF COLUMBIA SHORT-TERM OCCUPATIONAL PROJECTIONS, SEPARATIONS, OPENINGS, AND WORKER CHARACTERISTICS, 2017 - 2019*														
Soccode	Occupational Title	Employment Projections				Occupational Separations, 2017-2019, annual average			Occupational		Worker Characteristics			
		2017		2019		Labor Force Exits	Occupational Transfers	Total	Openings 2017-2019	Median Annual Wage**	Typical Education Needed for Entry	Work Experience in a related Occupation	Typical on-the-job training needed to attain competency	
		2017	2019	Numeric	Percent									
43-3071	Tellers	1,035	1,052	17	1.64	54	67	8	129	\$31,560	HS or EQ	None	Short-term OJT	
43-4000	Information and Record Clerks	19,937	20,408	471	2.36	1,068	1,396	236	2,700	N/A				
43-4011	Brokerage Clerks	146	152	6	4.11	4	12	3	19	\$54,440	HS or EQ	None	Moderate-term OJT	
43-4051	Customer Service Representatives	6,549	6,770	221	3.37	340	500	110	950	\$43,300	HS or EQ	None	Short-term OJT	
43-4061	Eligibility Interviewers, Government Programs	695	711	16	2.30	28	33	8	69	\$56,970	HS or EQ	None	Moderate-term OJT	
43-4071	File Clerks	598	600	2	0.33	36	36	1	73	\$44,830	HS or EQ	None	Short-term OJT	
43-4081	Hotel, Motel, and Resort Desk Clerks	1,158	1,194	36	3.11	65	116	18	199	\$33,370	HS or EQ	None	Short-term OJT	
43-4111	Interviewers, Except Eligibility and Loan	235	243	8	3.40	13	15	4	32	\$37,600	HS or EQ	None	Short-term OJT	
43-4121	Library Assistants, Clerical	402	419	17	4.23	32	25	8	65	\$34,950	HS or EQ	None	Short-term OJT	
43-4131	Loan Interviewers and Clerks	223	236	13	5.83	8	14	6	28	\$48,030	HS or EQ	None	Short-term OJT	
43-4151	Order Clerks	66	69	3	4.55	3	4	2	9	\$35,550	HS or EQ	None	Short-term OJT	
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	923	931	8	0.87	39	62	4	105	\$52,420	Associate's degree	None	None	
43-4171	Receptionists and Information Clerks	4,496	4,627	131	2.91	284	302	66	652	\$33,570	HS or EQ	None	Short-term OJT	
43-4181	Reservation and Transportation Ticket Agents and Travel Clerks	247	253	6	2.43	11	15	3	29	\$48,510	HS or EQ	None	Short-term OJT	
43-4199	Information and Record Clerks, All Other	4,130	4,131	1	0.02	200	258	0	458	\$55,210	HS or EQ	None	Short-term OJT	
43-5000	Material Recording, Scheduling, Dispatching, and Distributing Workers	7,426	7,652	226	3.04	336	419	113	868	N/A				
43-5011	Cargo and Freight Agents	83	87	4	4.82	2	4	2	8	\$32,220	HS or EQ	None	Short-term OJT	
43-5021	Couriers and Messengers	530	551	21	3.96	25	24	10	59	\$29,300	HS or EQ	None	Short-term OJT	
43-5031	Police, Fire, and Ambulance Dispatchers	158	162	4	2.53	6	8	2	16	\$70,100	HS or EQ	None	Moderate-term OJT	
43-5032	Dispatchers, Except Police, Fire, and Ambulance	828	846	18	2.17	30	45	9	84	\$41,820	HS or EQ	None	Moderate-term OJT	
43-5051	Postal Service Clerks	133	134	1	0.75	7	4	0	11	\$56,790	HS or EQ	None	Short-term OJT	
43-5052	Postal Service Mail Carriers	937	940	3	0.32	36	26	2	64	\$59,840	HS or EQ	None	Short-term OJT	
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	551	547	-4	-0.73	24	16	-2	38	\$56,790	HS or EQ	None	Short-term OJT	
43-5061	Production, Planning, and Expediting Clerks	898	942	44	4.90	32	60	22	114	\$57,970	HS or EQ	None	Moderate-term OJT	
43-5071	Shipping, Receiving, and Traffic Clerks	608	616	8	1.32	24	36	4	64	\$45,670	HS or EQ	None	Short-term OJT	
43-5081	Stock Clerks and Order Fillers	2,696	2,823	127	4.71	150	196	64	410	\$28,840	HS or EQ	None	Short-term OJT	
43-6000	Secretaries and Administrative Assistants	28,012	28,175	163	0.58	1,514	1,472	82	3,068	N/A				
43-6011	Executive Secretaries and Executive Administrative Assistants	6,390	6,306	-84	-1.31	342	332	-42	632	\$66,080	HS or EQ	Less than 5 years	None	
43-6012	Legal Secretaries	4,540	4,566	26	0.57	246	238	13	497	\$83,360	HS or EQ	None	Moderate-term OJT	
43-6013	Medical Secretaries	1,683	1,760	77	4.58	92	90	38	220	\$39,830	HS or EQ	None	Moderate-term OJT	
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Execut	15,399	15,543	144	0.94	834	810	72	1,716	\$46,760	HS or EQ	None	Short-term OJT	
43-9000	Other Office and Administrative Support Workers	17,526	17,751	225	1.28	954	1,041	112	2,107	N/A				
43-9011	Computer Operators	120	115	-5	-4.17	4	7	-2	9	\$56,740	HS or EQ	None	Moderate-term OJT	
43-9021	Data Entry Keyers	385	382	-3	-0.78	20	24	-2	42	\$36,000	HS or EQ	None	Short-term OJT	
43-9022	Word Processors and Typists	420	398	-22	-5.24	26	20	-11	35	\$48,480	HS or EQ	None	Short-term OJT	
43-9031	Desktop Publishers	81	82	1	1.23	4	5	0	9	\$60,930	Associate's degree	None	Short-term OJT	
43-9041	Insurance Claims and Policy Processing Clerks	398	415	17	4.27	18	23	8	49	\$48,240	HS or EQ	None	Moderate-term OJT	
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	1,384	1,372	-12	-0.87	74	78	-6	146	\$44,660	HS or EQ	None	Short-term OJT	
43-9061	Office Clerks, General	10,383	10,572	189	1.82	615	599	94	1,308	\$38,640	HS or EQ	None	Short-term OJT	
43-9071	Office Machine Operators, Except Computer	714	702	-12	-1.68	31	47	-6	72	\$38,330	HS or EQ	None	Short-term OJT	
43-9111	Statistical Assistants	384	404	20	5.21	18	30	10	58	\$52,640	Bachelor's degree	None	None	
43-9199	Office and Administrative Support Workers, All Other	3,209	3,260	51	1.59	140	206	26	372	\$37,880	HS or EQ	None	Short-term OJT	
45-0000	Farming, Fishing, and Forestry Occupations	395	396	1	0.25	14	45	0	59	\$38,590				
45-2000	Agricultural Workers	347	348	1	0.29	12	40	0	52	N/A				
45-2093	Farmworkers, Farm, Ranch, and Aquacultural Animals	114	113	-1	-0.88	4	13	0	17	N/A	No formal educ. creden	None	Short-term OJT	
45-2099	Agricultural Workers, All Other	224	225	1	0.45	8	26	0	34	N/A	No formal educ. creden	None	Short-term OJT	
47-0000	Construction and Extraction Occupations	14,126	14,846	720	5.10	510	960	360	1,830	\$51,670				
47-1000	Supervisors of Construction and Extraction Workers	1,193	1,260	67	5.62	40	78	34	152	N/A				
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	1,193	1,260	67	5.62	40	78	34	152	\$78,030	HS or EQ	5 years or more	None	
47-2000	Construction Trades Workers	11,498	12,077	579	5.04	408	761	290	1,459	N/A				
47-2021	Brickmasons and Blockmasons	210	218	8	3.81	6	12	4	22	\$63,900	HS or EQ	None	Apprenticeship	

DISTRICT OF COLUMBIA SHORT-TERM OCCUPATIONAL PROJECTIONS, SEPARATIONS, OPENINGS, AND WORKER CHARACTERISTICS, 2017 - 2019*														
Soccode	Occupational Title	Employment Projections				Occupational Separations, 2017-2019, annual average			Occupational		Worker Characteristics			
		2017		Change 2017-2019		Labor Force Exits	Occupational Transfers	Total	Openings 2017-2019	Median Annual Wage**	Typical Education Needed for Entry	Work Experience in a related Occupation	Typical on-the-job training needed to attain competency	
		2017	2019	Numeric	Percent									
47-2022	Stonemasons	61	65	4	6.56	2	4	2	8	\$41,880	HS or EQ	None	Apprenticeship	
47-2031	Carpenters	2,291	2,406	115	5.02	80	130	58	268	\$48,940	HS or EQ	None	Apprenticeship	
47-2051	Cement Masons and Concrete Finishers	573	604	31	5.41	22	40	16	78	\$46,710	No formal educ. creden	None	Moderate-term OJT	
47-2061	Construction Laborers	3,614	3,816	202	5.59	130	245	101	476	\$37,420	No formal educ. creden	None	Short-term OJT	
47-2071	Paving, Surfacing, and Tamping Equipment Operators	217	226	9	4.15	8	15	4	27	\$54,650	HS or EQ	None	Moderate-term OJT	
47-2073	Operating Engineers and Other Construction Equipment Operators	581	608	27	4.65	22	42	14	78	\$60,490	HS or EQ	None	Moderate-term OJT	
47-2081	Drywall and Ceiling Tile Installers	96	98	2	2.08	3	6	1	10	\$45,610	No formal educ. creden	None	Moderate-term OJT	
47-2111	Electricians	1,169	1,219	50	4.28	42	88	25	155	\$68,600	HS or EQ	None	Apprenticeship	
47-2121	Glaziers	275	292	17	6.18	10	22	8	40	\$48,910	HS or EQ	None	Apprenticeship	
47-2132	Insulation Workers, Mechanical	69	72	3	4.35	2	6	2	10	N/A	HS or EQ	None	Apprenticeship	
47-2141	Painters, Construction and Maintenance	591	608	17	2.88	20	30	8	58	\$51,370	No formal educ. creden	None	Moderate-term OJT	
47-2151	Pipelayers	104	111	7	6.73	4	7	4	15	\$49,100	No formal educ. creden	None	Short-term OJT	
47-2152	Plumbers, Pipefitters, and Steamfitters	969	1,022	53	5.47	36	66	26	128	\$67,990	HS or EQ	None	Apprenticeship	
47-2161	Plasterers and Stucco Masons	70	72	2	2.86	2	4	1	7	\$56,780	No formal educ. creden	None	Long-term OJT	
47-2171	Reinforcing Iron and Rebar Workers	186	196	10	5.38	5	14	5	24	\$43,190	HS or EQ	None	Apprenticeship	
47-2181	Roofers	50	51	1	2.00	2	4	0	6	\$34,620	No formal educ. creden	None	Moderate-term OJT	
47-2221	Structural Iron and Steel Workers	247	262	15	6.07	8	19	8	35	\$56,210	HS or EQ	None	Apprenticeship	
47-3000	Helpers, Construction Trades	803	856	53	6.60	35	80	26	141	N/A				
47-3012	Helpers--Carpenters	150	159	9	6.00	6	15	4	25	\$36,640	No formal educ. creden	None	Short-term OJT	
47-3013	Helpers--Electricians	71	74	3	4.23	3	7	2	12	\$36,050	HS or EQ	None	Short-term OJT	
47-3015	Helpers--Pipefitters, Plumbers, Pipefitters, and Steamfitters	494	527	33	6.68	22	50	16	88	\$33,120	HS or EQ	None	Short-term OJT	
47-3019	Helpers, Construction Trades, All Other	59	63	4	6.78	2	6	2	10	N/A	No formal educ. creden	None	Short-term OJT	
47-4000	Other Construction and Related Workers	617	636	19	3.08	28	40	10	78	N/A				
47-4011	Construction and Building Inspectors	316	327	11	3.48	16	18	6	40	\$85,560	HS or EQ	5 years or more	Moderate-term OJT	
47-4041	Hazardous Materials Removal Workers	139	141	2	1.44	6	11	1	18	\$51,230	HS or EQ	None	Moderate-term OJT	
47-4099	Construction and Related Workers, All Other	54	56	2	3.70	2	4	1	7	\$49,690	HS or EQ	None	Moderate-term OJT	
49-0000	Installation, Maintenance, and Repair Occupations	9,127	9,510	383	4.20	348	542	192	1,082	\$53,290				
49-1000	Supervisors of Installation, Maintenance, and Repair Workers	717	745	28	3.91	24	38	14	76	N/A				
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	717	745	28	3.91	24	38	14	76	\$73,900	HS or EQ	Less than 5 years	None	
49-2000	Electrical and Electronic Equipment Mechanics, Installers, and Repairers	724	733	9	1.24	22	46	4	72	N/A				
49-2011	Computer, Automated Teller, and Office Machine Repairers	66	67	1	1.52	2	4	0	6	\$32,900	Some college, no degre	None	Short-term OJT	
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	180	183	3	1.67	6	13	2	21	\$66,800	Postsec. non-degree	None	Moderate-term OJT	
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	178	177	-1	-0.56	4	11	0	15	N/A	Postsec. non-degree	None	Long-term OJT	
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	140	138	-2	-1.43	4	8	-1	11	N/A	Postsec. non-degree	Less than 5 years	Moderate-term OJT	
49-2096	Electronic Equipment Installers and Repairers, Motor Vehicles	111	117	6	5.41	4	7	3	14	\$45,090	HS or EQ	None	Moderate-term OJT	
49-3000	Vehicle and Mobile Equipment Mechanics, Installers, and Repairers	924	950	26	2.81	31	60	13	104	N/A				
49-3021	Automotive Body and Related Repairers	64	65	1	1.56	2	4	0	6	\$70,820	HS or EQ	None	Long-term OJT	
49-3023	Automotive Service Technicians and Mechanics	469	473	4	0.85	15	28	2	45	\$59,250	Postsec. non-degree	None	Short-term OJT	
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	104	110	6	5.77	4	6	3	13	\$56,470	HS or EQ	None	Long-term OJT	
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	74	77	3	4.05	2	5	2	9	\$56,350	HS or EQ	None	Long-term OJT	
49-3091	Bicycle Repairers	164	174	10	6.10	6	14	5	25	\$30,530	HS or EQ	None	Moderate-term OJT	
49-9000	Other Installation, Maintenance, and Repair Occupations	6,762	7,082	320	4.73	272	398	160	830	N/A				
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	309	325	16	5.18	9	22	8	39	\$67,250	Postsec. non-degree	None	Long-term OJT	
49-9041	Industrial Machinery Mechanics	91	91	0	0.00	3	4	0	7	\$64,180	HS or EQ	None	Long-term OJT	
49-9043	Maintenance Workers, Machinery	152	159	7	4.61	6	9	4	19	\$57,530	HS or EQ	None	Long-term OJT	
49-9051	Electrical Power-Line Installers and Repairers	146	146	0	0.00	4	8	0	12	N/A	HS or EQ	None	Long-term OJT	
49-9052	Telecommunications Line Installers and Repairers	269	258	-11	-4.09	6	20	-6	20	\$43,060	HS or EQ	None	Long-term OJT	
49-9071	Maintenance and Repair Workers, General	4,992	5,267	275	5.51	209	286	138	633	\$46,810	HS or EQ	None	Moderate-term OJT	
49-9098	Helpers--Installation, Maintenance, and Repair Workers	309	328	19	6.15	16	24	10	50	\$41,260	HS or EQ	None	Short-term OJT	
49-9099	Installation, Maintenance, and Repair Workers, All Other	261	268	7	2.68	10	15	4	29	\$37,690	HS or EQ	None	Moderate-term OJT	
51-0000	Production Occupations	5,412	5,517	105	1.94	256	364	52	672	\$53,040				

DISTRICT OF COLUMBIA SHORT-TERM OCCUPATIONAL PROJECTIONS, SEPARATIONS, OPENINGS, AND WORKER CHARACTERISTICS, 2017 - 2019*														
Soccode	Occupational Title	Employment Projections				Occupational Separations, 2017-2019, annual average			Occupational		Worker Characteristics			
		2017		2019		Labor Force Exits	Occupational Transfers	Total	Openings	Median Annual Wage**	Typical Education Needed for Entry	Work Experience in a related Occupation	Typical on-the-job training needed to attain competency	
		2017	2019	Numeric	Percent									
51-1000	Supervisors of Production Workers	296	304	8	2.70	10	19	4	33	N/A				
51-1011	First-Line Supervisors of Production and Operating Workers	296	304	8	2.70	10	19	4	33	\$75,220	HS or EQ	Less than 5 years	None	
51-2000	Assemblers and Fabricators	99	99	0	0.00	4	7	0	11	N/A				
51-3000	Food Processing Workers	742	777	35	4.72	41	58	18	117	N/A				
51-3011	Bakers	301	314	13	4.32	20	23	6	49	\$30,520	No formal educ. creden	None	Long-term OJT	
51-3021	Butchers and Meat Cutters	301	316	15	4.98	14	24	8	46	\$45,320	No formal educ. creden	None	Long-term OJT	
51-3092	Food Batchmakers	114	120	6	5.26	6	10	3	19	\$29,460	HS or EQ	None	Moderate-term OJT	
51-4000	Metal Workers and Plastic Workers	123	126	3	2.44	4	9	2	15	N/A				
51-5100	Printing Workers	1,368	1,371	3	0.22	66	89	2	157	N/A				
51-5111	Prepress Technicians and Workers	316	316	0	0.00	13	24	0	37	N/A	Postsec. non-degree	None	None	
51-5112	Printing Press Operators	715	717	2	0.28	28	46	1	75	\$89,140	HS or EQ	None	Moderate-term OJT	
51-5113	Print Binding and Finishing Workers	337	338	1	0.30	26	18	0	44	\$76,410	HS or EQ	None	Moderate-term OJT	
51-6000	Textile, Apparel, and Furnishings Workers	956	967	11	1.15	70	54	6	130	N/A				
51-6011	Laundry and Dry-Cleaning Workers	412	418	6	1.46	28	28	3	59	\$34,550	No formal educ. creden	None	Short-term OJT	
51-6021	Pressers, Textile, Garment, and Related Materials	125	125	0	0.00	8	8	0	16	\$21,860	No formal educ. creden	None	Short-term OJT	
51-6031	Sewing Machine Operators	52	53	1	1.92	3	2	0	5	\$30,240	No formal educ. creden	None	Short-term OJT	
51-6052	Tailors, Dressmakers, and Custom Sewers	304	307	3	0.99	27	12	2	41	\$45,300	No formal educ. creden	None	Moderate-term OJT	
51-7000	Woodworkers	104	108	4	3.85	5	6	2	13	N/A				
51-7011	Cabinetmakers and Bench Carpenters	91	95	4	4.40	4	5	2	11	\$57,060	HS or EQ	None	Moderate-term OJT	
51-8000	Plant and System Operators	1,122	1,152	30	2.67	34	77	15	126	N/A				
51-8021	Stationary Engineers and Boiler Operators	708	745	37	5.23	24	51	18	93	\$73,540	HS or EQ	None	Long-term OJT	
51-8031	Water and Wastewater Treatment Plant and System Operators	228	223	-5	-2.19	6	12	-2	16	\$54,880	HS or EQ	None	Long-term OJT	
51-8099	Plant and System Operators, All Other	181	180	-1	-0.55	4	14	0	18	N/A	HS or EQ	None	Moderate-term OJT	
51-9000	Other Production Occupations	602	613	11	1.83	24	46	6	76	N/A				
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	93	94	1	1.08	4	7	0	11	\$54,670	HS or EQ	None	Moderate-term OJT	
51-9081	Dental Laboratory Technicians	70	72	2	2.86	3	4	1	8	\$76,500	HS or EQ	None	Moderate-term OJT	
51-9151	Photographic Process Workers and Processing Machine Operators	73	70	-3	-4.11	4	8	-2	10	\$23,490	HS or EQ	None	Short-term OJT	
51-9199	Production Workers, All Other	143	146	3	2.10	6	10	2	18	\$35,140	HS or EQ	None	Moderate-term OJT	
53-0000	Transportation and Material Moving Occupations	17,097	17,722	625	3.66	1,013	1,094	312	2,419	\$37,120				
53-1000	Supervisors of Transportation and Material Moving Workers	599	628	29	4.84	20	42	14	76	N/A				
53-1021	First-Line Supervisors of Helpers, Laborers, and Material Movers, Hand	75	81	6	8.00	2	6	3	11	\$55,350	HS or EQ	Less than 5 years	None	
53-1031	First-Line Supervisors of Transportation and Material-Moving Machine and V	524	547	23	4.39	17	37	12	66	\$63,260	HS or EQ	Less than 5 years	None	
53-2000	Air Transportation Workers	730	733	3	0.41	23	44	2	69	N/A				
53-2021	Air Traffic Controllers	707	708	1	0.14	22	42	0	64	\$22,900	Associate's degree	None	Long-term OJT	
53-3000	Motor Vehicle Operators	9,082	9,519	437	4.81	624	451	218	1,293	N/A				
53-3021	Bus Drivers, Transit and Intercity	479	519	40	8.35	39	20	20	79	\$35,350	HS or EQ	None	Moderate-term OJT	
53-3022	Bus Drivers, School or Special Client	3,851	4,131	280	7.27	313	163	140	616	\$40,270	HS or EQ	None	Short-term OJT	
53-3031	Driver/Sales Workers	468	477	9	1.92	20	30	4	54	\$24,850	HS or EQ	None	Short-term OJT	
53-3032	Heavy and Tractor-Trailer Truck Drivers	560	582	22	3.93	24	36	11	71	\$48,610	Postsec. non-degree	None	Short-term OJT	
53-3033	Light Truck or Delivery Services Drivers	1,759	1,813	54	3.07	76	112	27	215	\$26,250	HS or EQ	None	Short-term OJT	
53-3041	Taxi Drivers and Chauffeurs	1,329	1,355	26	1.96	80	54	13	147	\$30,110	No formal educ. creden	None	Short-term OJT	
53-3099	Motor Vehicle Operators, All Other	631	636	5	0.79	73	35	2	110	\$52,580	No formal educ. creden	None	Short-term OJT	
53-6000	Other Transportation Workers	3,202	3,244	42	1.31	174	266	21	461	N/A				
53-6021	Parking Lot Attendants	2,208	2,243	35	1.59	130	196	18	344	\$23,660	No formal educ. creden	None	Short-term OJT	
53-6031	Automotive and Watercraft Service Attendants	103	108	5	4.85	6	12	2	20	\$26,650	No formal educ. creden	None	Short-term OJT	
53-6041	Traffic Technicians	121	123	2	1.65	6	8	1	15	N/A	HS or EQ	None	Moderate-term OJT	
53-6051	Transportation Inspectors	263	263	0	0.00	10	16	0	26	\$110,680	HS or EQ	None	Moderate-term OJT	
53-6099	Transportation Workers, All Other	496	496	0	0.00	22	34	0	56	\$39,390	HS or EQ	None	Short-term OJT	
53-7000	Material Moving Workers	3,444	3,558	114	3.31	172	286	57	515	N/A				
53-7021	Crane and Tower Operators	117	122	5	4.27	4	8	2	14	\$68,780	HS or EQ	Less than 5 years	Moderate-term OJT	
53-7032	Excavating and Loading Machine and Dragline Operators	61	64	3	4.92	2	4	2	8	\$53,680	HS or EQ	Less than 5 years	Moderate-term OJT	

DISTRICT OF COLUMBIA SHORT-TERM OCCUPATIONAL PROJECTIONS, SEPARATIONS, OPENINGS, AND WORKER CHARACTERISTICS, 2017 - 2019*													
		Employment Projections				Occupational Separations, 2017-2019, annual average			Occupational		Worker Characteristics		
Soccode	Occupational Title	Employment		Change 2017-2019		Labor Force	Occupational		Openings	Median	Typical Education	Work Experience	Typical on-the-job
		2017	2019	Numeric	Percent	Exits	Transfers	Total	2017-2019	Annual Wage**	Needed for Entry	in a related	training needed to
												Occupation	attain competency
53-7051	Industrial Truck and Tractor Operators	74	75	1	1.35	2	6	0	8	\$52,380	No formal educ. creden	None	Short-term OJT
53-7061	Cleaners of Vehicles and Equipment	189	195	6	3.17	10	16	3	29	\$41,580	No formal educ. creden	None	Short-term OJT
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	2,124	2,215	91	4.28	108	186	46	340	\$37,470	No formal educ. creden	None	Short-term OJT
53-7064	Packers and Packagers, Hand	221	228	7	3.17	15	18	4	37	\$24,770	No formal educ. creden	None	Short-term OJT
53-7081	Refuse and Recyclable Material Collectors	648	649	1	0.15	30	47	0	77	\$43,600	No formal educ. creden	None	Short-term OJT

Notes: *District of Columbia Short-Term Industry and Occupational Projections, 2017 - 2019

**Bureau of Labor Statistics, Occupational Employment Statistics (OES), May 2016 OES survey

N/A - not available

Source: Department of Employment Services, Office of Economic Research, Performance & Data Analytics