

Table 2: DISTRICT OF COLUMBIA LONG-TERM OCCUPATIONAL PROJECTIONS, SEPARATIONS, OPENINGS, AND WORKER CHARACTERISTICS, 2018 - 2028*

Soccode	Occupational Title	Employment Projections						Occupational Separations, 2018-2028, annual average			Total 2018-2028	Median Annual Wage**	Worker Characteristics		
		Employment		Change 2018-2028		Growth	Labor Force		Openings	Typical Education Needed for Entry			Work Experience in a related Occupation	Typical on-the-job training needed to attain competency	
		2018	2028	Numeric	Percent	Rate	Exits	Transfers							Change
00-0000	Total, All Occupations	812,820	885,414	72,594	8.93	0.86	31,146	55,135	7,259	93,540	\$74,867				
11-0000	Management Occupations	112,983	120,608	7,625	6.75	0.66	2,724	6,744	762	10,230	\$143,310				
11-1000	Top Executives	32,957	35,674	2,717	8.24	0.80	732	2,212	272	3,216					
11-1011	Chief Executives	2,301	2,211	-90	-3.91	-0.40	60	100	-9	151		Bachelor's degree	5 years or more	None	
11-1021	General & Operations Managers	30,631	33,438	2,807	9.16	0.88	672	2,110	281	3,063	\$143,310	Bachelor's degree	5 years or more	None	
11-2000	Advertising, Marketing, Promotions, Public Relations, & Sales Managers	8,209	9,271	1,062	12.94	1.22	186	572	106	864					
11-2011	Advertising & Promotions Managers	242	283	41	16.94	1.58	5	20	4	29	\$137,584	Bachelor's degree	Less than 5 years	None	
11-2021	Marketing Managers	1,906	2,171	265	13.90	1.31	42	139	26	207	\$158,133	Bachelor's degree	5 years or more	None	
11-2022	Sales Managers	999	1,133	134	13.41	1.27	22	73	13	108	\$126,480	Bachelor's degree	Less than 5 years	None	
11-2031	Public Relations & Fundraising Managers	5,062	5,684	622	12.29	1.17	118	341	62	521	\$170,410	Bachelor's degree	5 years or more	None	
11-3000	Operations Specialties Managers	19,947	21,440	1,493	7.48	0.72	444	1,200	149	1,793					
11-3011	Administrative Services Managers	1,637	1,743	106	6.48	0.63	46	94	11	151	\$117,056	Bachelor's degree	Less than 5 years	None	
11-3021	Computer & Information Systems Managers	4,807	5,224	417	8.67	0.84	86	305	42	433	\$165,313	Bachelor's degree	5 years or more	None	
11-3031	Financial Managers	8,608	9,392	784	9.11	0.88	195	499	78	772	\$152,274	Bachelor's degree	5 years or more	None	
11-3061	Purchasing Managers	2,137	2,139	2	0.09	0.01	52	127	0	179	\$139,432	Bachelor's degree	5 years or more	None	
11-3071	Transportation, Storage, & Distribution Managers	513	525	12	2.34	0.23	11	30	1	42	\$145,090	HS diploma or equivalent	5 years or more	None	
11-3111	Compensation & Benefits Managers	128	134	6	4.69	0.46	3	8	1	12	\$134,639	Bachelor's degree	5 years or more	None	
11-3121	Human Resources Managers	1,785	1,907	122	6.83	0.66	42	114	12	168	\$159,452	Bachelor's degree	5 years or more	None	
11-3131	Training & Development Managers	315	358	43	13.65	1.29	8	22	4	34	\$144,578	Bachelor's degree	5 years or more	None	
11-9000	Other Management Occupations	51,870	54,223	2,353	4.54	0.44	1,362	2,761	235	4,358					
11-9021	Construction Managers	1,669	1,956	287	17.20	1.60	38	92	29	159	\$105,183	Bachelor's degree	None	Moderate-term OJT training	
11-9031	Education Administrators, Preschool & Childcare Center/Program	433	497	64	14.78	1.39	12	24	6	42	\$70,349	Bachelor's degree	Less than 5 years	None	
11-9032	Education Administrators, Elementary & Secondary School	1,230	1,417	187	15.20	1.43	34	68	19	121	\$109,062	Master's degree	5 years or more	None	
11-9033	Education Administrators, Postsecondary	1,474	1,617	143	9.70	0.93	40	80	14	134	\$95,865	Master's degree	Less than 5 years	None	
11-9039	Education Administrators, All Other	1,160	1,256	96	8.28	0.80	31	63	10	104	\$110,996	Bachelor's degree	Less than 5 years	None	
11-9041	Architectural & Engineering Managers	1,774	1,799	25	1.41	0.14	31	98	2	131	\$151,061	Bachelor's degree	5 years or more	None	
11-9051	Food Service Managers	1,514	1,698	184	12.15	1.15	49	135	18	202	\$68,679	HS diploma or equivalent	Less than 5 years	None	
11-9061	Funeral Service Managers	32	33	1	3.12	0.31	1	2	0	3	\$64,484	Associate's degree	Less than 5 years	None	
11-9081	Lodging Managers	155	174	19	12.26	1.16	5	12	2	19	\$100,024	HS diploma or equivalent	Less than 5 years	None	
11-9111	Medical & Health Services Managers	1,863	2,037	174	9.34	0.90	48	107	17	172	\$131,856	Bachelor's degree	Less than 5 years	None	
11-9121	Natural Sciences Managers	1,465	1,490	25	1.71	0.17	31	99	2	132	\$136,671	Bachelor's degree	5 years or more	None	
11-9141	Property, Real Estate, & Community Association Managers	2,495	2,784	289	11.58	1.10	98	105	29	232	\$73,128	HS diploma or equivalent	Less than 5 years	None	
11-9151	Social & Community Service Managers	1,016	1,146	130	12.80	1.21	32	62	13	107	\$93,374	Bachelor's degree	Less than 5 years	None	
11-9161	Emergency Management Directors	240	241	1	0.42	0.04	7	12	0	19	\$136,661	Bachelor's degree	5 years or more	None	
11-9199	Managers, All Other	35,344	36,073	729	2.06	0.20	904	1,802	73	2,779	\$143,302	Bachelor's degree	Less than 5 years	None	
13-0000	Business & Financial Operations Occupations	126,702	139,652	12,950	10.22	0.98	3,715	8,966	1,295	13,976	\$96,289				
13-1000	Business Operations Specialists	100,013	110,737	10,724	10.72	1.02	2,983	7,245	1,072	11,300					
13-1011	Agents & Business Managers of Artists, Performers, & Athletes	206	212	6	2.91	0.29	7	17	1	25	\$74,376	Bachelor's degree	Less than 5 years	None	
13-1020	Buyers & Purchasing Agents	3,337	3,038	-299	-8.96	-0.93	100	232	-30	302	\$98,151	Bachelor's degree	None	Moderate-term OJT training	
13-1031	Claims Adjusters, Examiners, & Investigators	925	898	-27	-2.92	-0.30	22	55	-3	74	\$71,299	HS diploma or equivalent	None	Long-term OJT training	
13-1041	Compliance Officers	5,017	5,301	284	5.66	0.55	144	308	28	480	\$93,142	Bachelor's degree	None	Moderate-term OJT training	
13-1051	Cost Estimators	488	570	82	16.80	1.57	13	39	8	60	\$97,870	Bachelor's degree	None	Moderate-term OJT training	
13-1071	Human Resources Specialists	8,913	9,404	491	5.51	0.54	244	674	49	967	\$96,366	Bachelor's degree	None	None	
13-1075	Labor Relations Specialists	469	446	-23	-4.90	-0.50	12	34	-2	44	\$83,505	Bachelor's degree	Less than 5 years	None	
13-1081	Logisticians	1,424	1,582	158	11.10	1.06	35	108	16	159	\$97,198	Bachelor's degree	None	None	
13-1111	Management Analysts	24,745	29,912	5,167	20.88	1.91	848	1,726	517	3,091	\$104,157	Bachelor's degree	Less than 5 years	None	
13-1121	Meeting, Convention, & Event Planners	2,757	3,053	296	10.74	1.03	93	238	30	361	\$67,313	Bachelor's degree	None	None	
13-1131	Fundraisers	2,624	2,986	362	13.80	1.30	92	200	36	328	\$78,496	Bachelor's degree	None	None	
13-1141	Compensation, Benefits, & Job Analysis Specialists	569	623	54	9.49	0.91	20	37	5	62	\$87,418	Bachelor's degree	Less than 5 years	None	
13-1151	Training & Development Specialists	1,902	2,221	319	16.77	1.56	62	160	32	254	\$73,506	Bachelor's degree	Less than 5 years	None	
13-1161	Market Research Analysts & Marketing Specialists	6,638	8,646	2,008	30.25	2.68	180	601	201	982	\$74,828	Bachelor's degree	None	None	

Table 2: DISTRICT OF COLUMBIA LONG-TERM OCCUPATIONAL PROJECTIONS, SEPARATIONS, OPENINGS, AND WORKER CHARACTERISTICS, 2018 - 2028*

Soccode	Occupational Title	Employment Projections										Occupational Separations,			Worker Characteristics		
		2018-2028					2018-2028, annual average					Total	Median	Typical Education	Work Experience	Typical on-the-job	
		2018	2028	Numeric	Percent	Growth	Labor Force	Exits	Transfers	Change	Openings	Annual Wage**	Needed for Entry	in a related Occupation	training needed to attain competency		
13-1199	Business Operations Specialists, All Other	39,999	41,845	1,846	4.62	0.45	1,111	2,817	185	4,113	\$98,321	Bachelor's degree	None	None			
13-2000	Financial Specialists	26,689	28,915	2,226	8.34	0.80	732	1,720	223	2,675							
13-2011	Accountants & Auditors	12,949	13,995	1,046	8.08	0.78	380	876	105	1,361	\$94,738	Bachelor's degree	None	None			
13-2021	Appraisers & Assessors of Real Estate	212	225	13	6.13	0.60	7	9	1	17	\$98,426	Bachelor's degree	None	Long-term OJT training			
13-2031	Budget Analysts	2,424	2,508	84	3.47	0.34	61	131	8	200	\$101,990	Bachelor's degree	None	None			
13-2041	Credit Analysts	395	410	15	3.80	0.37	9	27	2	38	\$110,767	Bachelor's degree	None	None			
13-2051	Financial Analysts	4,031	4,738	707	17.54	1.63	84	288	71	443	\$94,818	Bachelor's degree	None	None			
13-2052	Personal Financial Advisors	841	988	147	17.48	1.62	21	48	15	84	\$140,084	Bachelor's degree	None	Long-term OJT training			
13-2061	Financial Examiners	717	739	22	3.07	0.30	15	40	2	57	\$161,551	Bachelor's degree	None	Long-term OJT training			
13-2071	Credit Counselors	128	147	19	14.84	1.39	3	8	2	13	\$68,101	Bachelor's degree	None	Moderate-term OJT training			
13-2072	Loan Officers	367	397	30	8.17	0.79	9	23	3	35	\$78,042	Bachelor's degree	None	Moderate-term OJT training			
13-2081	Tax Examiners & Collectors, & Revenue Agents	397	385	-12	-3.02	-0.31	15	17	-1	31	\$78,182	Bachelor's degree	None	Moderate-term OJT training			
13-2082	Tax Preparers	279	317	38	13.62	1.29	15	19	4	38	\$52,212	HS diploma or equivalent	None	Moderate-term OJT training			
13-2099	Financial Specialists, All Other	3,921	4,037	116	2.96	0.29	111	233	12	356	\$103,405	Bachelor's degree	None	Moderate-term OJT training			
15-0000	Computer & Mathematical Occupations	48,070	56,106	8,036	16.72	1.56	858	2,944	804	4,606	\$111,103						
15-1100	Computer Occupations	45,135	52,511	7,376	16.34	1.53	795	2,774	738	4,307							
15-1111	Computer & Information Research Scientists	531	602	71	13.37	1.26	8	35	7	50	\$127,662	Master's degree	None	None			
15-1121	Computer Systems Analysts	4,102	4,841	739	18.02	1.67	85	238	74	397	\$108,535	Bachelor's degree	None	None			
15-1122	Information Security Analysts	1,564	2,380	816	52.17	4.29	28	112	82	222	\$121,598	Bachelor's degree	Less than 5 years	None			
15-1131	Computer Programmers	1,236	1,258	22	1.78	0.18	20	68	2	90	\$110,021	Bachelor's degree	None	None			
15-1132	Software Developers, Applications	2,780	3,687	907	32.63	2.86	45	183	91	319	\$117,650	Bachelor's degree	None	None			
15-1133	Software Developers, Systems Software	2,650	3,331	681	25.70	2.31	42	169	68	279	\$119,084	Bachelor's degree	None	None			
15-1134	Web Developers	1,343	1,539	196	14.59	1.37	25	85	20	130	\$89,736	Associate's degree	None	None			
15-1141	Database Administrators	985	1,149	164	16.65	1.55	21	55	16	92	\$95,145	Bachelor's degree	None	None			
15-1142	Network & Computer Systems Administrators	1,988	2,297	309	15.54	1.46	36	114	31	181	\$100,925	Bachelor's degree	None	None			
15-1143	Computer Network Architects	992	1,184	192	19.35	1.79	14	61	19	94	\$127,837	Bachelor's degree	5 years or more	None			
15-1151	Computer User Support Specialists	4,343	5,133	790	18.19	1.69	87	301	79	467	\$68,730	Some college, no degree	None	None			
15-1152	Computer Network Support Specialists	508	602	94	18.50	1.71	10	35	9	54	\$86,964	Associate's degree	None	None			
15-1199	Computer Occupations, All Other	22,113	24,508	2,395	10.83	1.03	374	1,318	240	1,932	\$120,885	Bachelor's degree	None	None			
15-2000	Mathematical Science Occupations	2,935	3,595	660	22.49	2.05	64	170	66	300							
15-2011	Actuaries	209	214	5	2.39	0.24	2	10	0	12	\$127,427	Bachelor's degree	None	Long-term OJT training			
15-2021	Mathematicians	74	89	15	20.27	1.86	2	5	2	9	\$127,662	Master's degree	None	None			
15-2031	Operations Research Analysts	1,012	1,234	222	21.94	2.00	26	47	22	95	\$114,059	Bachelor's degree	None	None			
15-2041	Statisticians	1,580	1,999	419	26.52	2.38	33	105	42	180	\$107,825	Master's degree	None	None			
15-2090	Miscellaneous Mathematical Science Occupations	60	59	-1	-1.67	-0.17	1	4	0	5	\$70,387	Bachelor's degree	None	None			
17-0000	Architecture & Engineering Occupations	13,949	14,995	1,046	7.50	0.73	328	753	105	1,186	\$108,646						
17-1000	Architects, Surveyors, & Cartographers	2,304	2,604	300	13.02	1.23	59	129	30	218							
17-1011	Architects, Except Landscape & Naval	2,162	2,449	287	13.27	1.25	55	122	29	206	\$96,256	Bachelor's degree	None	Internship/residency			
17-1012	Landscape Architects	41	43	2	4.88	0.48	1	2	0	3	\$98,933	Bachelor's degree	None	Internship/residency			
17-1022	Surveyors	73	83	10	13.70	1.29	2	4	1	7	\$77,033	Bachelor's degree	None	Internship/residency			
17-2000	Engineers	9,504	10,095	591	6.22	0.61	196	475	59	730							
17-2011	Aerospace Engineers	409	419	10	2.44	0.24	9	18	1	28	\$147,791	Bachelor's degree	None	None			
17-2031	Biomedical Engineers	58	61	3	5.17	0.51	1	3	0	4	\$79,883	Bachelor's degree	None	None			
17-2041	Chemical Engineers	110	112	2	1.82	0.18	2	5	0	7	\$124,154	Bachelor's degree	None	None			
17-2051	Civil Engineers	1,123	1,260	137	12.20	1.16	24	68	14	106	\$98,741	Bachelor's degree	None	None			
17-2061	Computer Hardware Engineers	415	488	73	17.59	1.63	9	24	7	40	\$127,669	Bachelor's degree	None	None			
17-2071	Electrical Engineers	580	648	68	11.72	1.11	12	28	7	47	\$117,990	Bachelor's degree	None	None			
17-2072	Electronics Engineers, Except Computer	625	626	1	0.16	0.02	13	29	0	42	\$127,659	Bachelor's degree	None	None			
17-2081	Environmental Engineers	370	386	16	4.32	0.42	10	18	2	30	\$103,774	Bachelor's degree	None	None			
17-2111	Health & Safety Engineers, Except Mining Safety Engineers & Inspecto	235	264	29	12.34	1.17	5	12	3	20	\$119,535	Bachelor's degree	None	None			
17-2112	Industrial Engineers	158	174	16	10.13	0.97	3	8	2	13	\$83,379	Bachelor's degree	None	None			

Table 2: DISTRICT OF COLUMBIA LONG-TERM OCCUPATIONAL PROJECTIONS, SEPARATIONS, OPENINGS, AND WORKER CHARACTERISTICS, 2018 - 2028*

Soccode	Occupational Title	Employment Projections					Occupational Separations, 2018-2028, annual average					Total	Median Annual Wage**	Worker Characteristics		
		Employment		Change 2018-2028		Growth	Labor Force			Openings	Typical Education			Work Experience	Typical on-the-job	
		2018	2028	Numeric	Percent	Rate	Exits	Transfers	Change	2018-2028	Needed for Entry			in a related Occupation	training needed to attain competency	
17-2121	Marine Engineers & Naval Architects	879	1,091	212	24.12	2.18	16	41	21	78	\$123,665	Bachelor's degree	None	None		
17-2131	Materials Engineers	109	109	0	0.00	0.00	2	5	0	7	\$127,673	Bachelor's degree	None	None		
17-2141	Mechanical Engineers	734	775	41	5.59	0.55	14	37	4	55	\$117,614	Bachelor's degree	None	None		
17-2161	Nuclear Engineers	131	130	-1	-0.76	-0.08	2	6	0	8	\$173,419	Bachelor's degree	None	None		
17-2171	Petroleum Engineers	34	37	3	8.82	0.85	1	2	0	3	\$146,726	Bachelor's degree	None	None		
17-2199	Engineers, All Other	3,530	3,511	-19	-0.54	-0.05	72	171	-2	241	\$142,870	Bachelor's degree	None	None		
17-3000	Drafters, Engineering Technicians, & Mapping Technicians	2,141	2,296	155	7.24	0.70	73	149	16	238						
17-3011	Architectural & Civil Drafters	791	839	48	6.07	0.59	27	57	5	89	\$67,312	Associate's degree	None	None		
17-3012	Electrical & Electronics Drafters	176	193	17	9.66	0.93	6	13	2	21	\$93,421	Associate's degree	None	None		
17-3013	Mechanical Drafters	52	60	8	15.38	1.44	2	4	1	7	\$46,951	Associate's degree	None	None		
17-3022	Civil Engineering Technicians	186	191	5	2.69	0.27	6	12	0	18	\$84,275	Associate's degree	None	None		
17-3023	Electrical & Electronics Engineering Technicians	448	514	66	14.73	1.38	16	31	7	54	\$82,440	Associate's degree	None	None		
17-3027	Mechanical Engineering Technicians	51	58	7	13.73	1.29	2	4	1	7	\$51,780	Associate's degree	None	None		
17-3029	Engineering Technicians, Except Drafters, All Other	399	399	0	0.00	0.00	13	26	0	39	\$96,174	Associate's degree	None	None		
19-0000	Life, Physical, & Social Science Occupations	29,403	31,544	2,141	7.28	0.71	661	2,276	214	3,151	\$107,157					
19-1000	Life Scientists	1,983	2,095	112	5.65	0.55	33	160	11	204						
19-1012	Food Scientists & Technologists	61	64	3	4.92	0.48	1	6	0	7	\$98,022	Bachelor's degree	None	None		
19-1013	Soil & Plant Scientists	75	76	1	1.33	0.13	2	7	0	9	\$82,541	Bachelor's degree	None	None		
19-1022	Microbiologists	63	63	0	0.00	0.00	1	5	0	6	\$98,016	Bachelor's degree	None	None		
19-1023	Zoologists & Wildlife Biologists	105	105	0	0.00	0.00	2	8	0	10	\$104,570	Bachelor's degree	None	None		
19-1029	Biological Scientists, All Other	614	636	22	3.58	0.35	10	48	2	60	\$85,180	Bachelor's degree	None	None		
19-1031	Conservation Scientists	344	374	30	8.72	0.84	7	30	3	40	\$69,457	Bachelor's degree	None	None		
19-1032	Foresters	35	35	0	0.00	0.00	1	3	0	4	\$85,051	Bachelor's degree	None	None		
19-1041	Epidemiologists	38	39	1	2.63	0.26	0	3	0	3	\$100,811	Master's degree	None	None		
19-1042	Medical Scientists, Except Epidemiologists	622	674	52	8.36	0.81	9	49	5	63	\$91,345	Doctoral or prof. degree	None	None		
19-2000	Physical Scientists	4,251	4,427	176	4.14	0.41	75	341	18	434						
19-2011	Astronomers	89	89	0	0.00	0.00	2	6	0	8	\$124,166	Doctoral or prof. degree	None	None		
19-2012	Physicists	796	865	69	8.67	0.83	15	52	7	74	\$150,248	Doctoral or prof. degree	None	None		
19-2021	Atmospheric & Space Scientists	34	36	2	5.88	0.57	1	3	0	4	\$134,246	Bachelor's degree	None	None		
19-2031	Chemists	333	334	1	0.30	0.03	5	25	0	30	\$127,419	Bachelor's degree	None	None		
19-2041	Environmental Scientists & Specialists, Including Health	1,920	2,020	100	5.21	0.51	36	176	10	222	\$120,881	Bachelor's degree	None	None		
19-2042	Geoscientists, Except Hydrologists & Geographers	61	60	-1	-1.64	-0.17	1	5	0	6	\$127,426	Bachelor's degree	None	None		
19-2043	Hydrologists	54	51	-3	-5.56	-0.57	1	5	0	6	\$98,402	Bachelor's degree	None	None		
19-2099	Physical Scientists, All Other	955	962	7	0.73	0.07	13	70	1	84	\$138,991	Bachelor's degree	None	None		
19-3000	Social Scientists & Related Workers	18,686	19,940	1,254	6.71	0.65	429	1,339	125	1,893						
19-3011	Economists	8,904	9,843	939	10.55	1.01	133	554	94	781	\$124,149	Master's degree	None	None		
19-3022	Survey Researchers	173	169	-4	-2.31	-0.23	5	14	0	19	\$61,638	Master's degree	None	None		
19-3031	Clinical, Counseling, & School Psychologists	810	934	124	15.31	1.43	20	42	12	74	\$87,724	Doctoral or prof. degree	None	Internship/residency		
19-3039	Psychologists, All Other	254	284	30	11.81	1.12	6	13	3	22	\$98,025	Master's degree	None	Internship/residency		
19-3041	Sociologists	74	84	10	13.51	1.28	2	7	1	10	\$96,831	Master's degree	None	None		
19-3051	Urban & Regional Planners	276	315	39	14.13	1.33	5	23	4	32	\$112,006	Master's degree	None	None		
19-3091	Anthropologists & Archeologists	62	62	0	0.00	0.00	2	5	0	7	\$101,296	Master's degree	None	None		
19-3092	Geographers	30	30	0	0.00	0.00	1	2	0	3	\$104,575	Bachelor's degree	None	None		
19-3093	Historians	286	285	-1	-0.35	-0.04	9	24	0	33	\$107,839	Master's degree	None	None		
19-3094	Political Scientists	4,471	4,578	107	2.39	0.24	141	377	11	529	\$124,906	Master's degree	None	None		
19-3099	Social Scientists & Related Workers, All Other	3,336	3,347	11	0.33	0.03	104	279	1	384	\$101,285	Bachelor's degree	None	None		
19-4000	Life, Physical, & Social Science Technicians	4,483	5,082	599	13.36	1.26	125	436	60	621						
19-4021	Biological Technicians	363	392	29	7.99	0.77	6	34	3	43	\$53,064	Bachelor's degree	None	None		
19-4031	Chemical Technicians	41	46	5	12.20	1.16	1	4	0	5	\$50,554	Associate's degree	None	Moderate-term OJT training		
19-4061	Social Science Research Assistants	3,361	3,881	520	15.47	1.45	99	330	52	481	\$55,724	Bachelor's degree	None	None		
19-4091	Environmental Science & Protection Technicians, Including Health	151	164	13	8.61	0.83	4	14	1	19	\$62,769	Associate's degree	None	None		

Table 2: DISTRICT OF COLUMBIA LONG-TERM OCCUPATIONAL PROJECTIONS, SEPARATIONS, OPENINGS, AND WORKER CHARACTERISTICS, 2018 - 2028*

Soccode	Occupational Title	Employment Projections										Occupational Separations,			Worker Characteristics		
		2018-2028					2018-2028, annual average					Total	Median	Typical Education	Work Experience	Typical on-the-job	
		2018	2028	Numeric	Percent	Growth	Exits	Transfers	Change	Openings	Annual Wage**	Needed for Entry	in a related Occupation	training needed to attain competency			
19-4092	Forensic Science Technicians	199	216	17	8.54	0.82	6	19	2	27	\$79,838	Bachelor's degree	None	Moderate-term OJT training			
19-4099	Life, Physical, & Social Science Technicians, All Other	342	355	13	3.80	0.37	10	32	1	43	\$57,186	Associate's degree	None	None			
21-0000	Community & Social Service Occupations	12,286	13,851	1,565	12.74	1.21	457	941	156	1,554	\$60,262						
21-1000	Counselors, Social Workers, & Other Community & Social Service Speci	11,458	12,928	1,470	12.83	1.21	412	878	147	1,437							
21-1012	Educational, Guidance, School, & Vocational Counselors	1,812	2,125	313	17.27	1.61	64	138	31	233	\$67,180	Master's degree	None	None			
21-1013	Marriage & Family Therapists	36	45	9	25.00	2.26	1	3	1	5	\$49,254	Master's degree	None	Internship/residency			
21-1015	Rehabilitation Counselors	701	782	81	11.55	1.10	24	52	8	84	\$43,473	Master's degree	None	None			
21-1018	Substance Abuse, Behavioral Disorder, & Mental Health Counselors	640	734	94	14.69	1.38	22	48	9	79	\$60,208	Bachelor's degree	None	None			
21-1019	Counselors, All Other	329	371	42	12.77	1.21	11	24	4	39	\$45,907	Master's degree	None	None			
21-1021	Child, Family, & School Social Workers	2,325	2,537	212	9.12	0.88	72	166	21	259	\$70,724	Bachelor's degree	None	None			
21-1022	Healthcare Social Workers	443	484	41	9.26	0.89	14	32	4	50	\$73,287	Master's degree	None	Internship/residency			
21-1023	Mental Health & Substance Abuse Social Workers	490	541	51	10.41	1.00	15	35	5	55	\$73,991	Master's degree	None	Internship/residency			
21-1029	Social Workers, All Other	286	298	12	4.20	0.41	9	20	1	30	\$82,975	Bachelor's degree	None	None			
21-1091	Health Educators	753	792	39	5.18	0.51	29	58	4	91	\$90,924	Bachelor's degree	None	None			
21-1092	Probation Officers & Correctional Treatment Specialists	99	110	11	11.11	1.06	2	6	1	9	\$77,250	Bachelor's degree	None	Short-term OJT training			
21-1093	Social & Human Service Assistants	1,952	2,271	319	16.34	1.53	84	167	32	283	\$44,333	HS diploma or equivalent	None	Short-term OJT training			
21-1094	Community Health Workers	978	1,136	158	16.16	1.51	39	80	16	135	\$58,533	HS diploma or equivalent	None	Short-term OJT training			
21-1099	Community & Social Service Specialists, All Other	614	702	88	14.33	1.35	24	50	9	83	\$51,706	Bachelor's degree	None	None			
21-2000	Religious Workers	828	923	95	11.47	1.09	46	62	10	118							
21-2011	Clergy	142	156	14	9.86	0.94	6	10	1	17	\$58,730	Bachelor's degree	None	Moderate-term OJT training			
21-2021	Directors, Religious Activities & Education	348	392	44	12.64	1.20	18	28	4	50	\$84,087	Bachelor's degree	Less than 5 years	None			
21-2099	Religious Workers, All Other	338	375	37	10.95	1.04	21	25	4	50	\$32,459	Bachelor's degree	None	None			
23-0000	Legal Occupations	49,350	54,289	4,939	10.01	0.96	1,228	1,768	494	3,490	\$158,962						
23-1000	Lawyers, Judges, & Related Workers	40,243	43,854	3,611	8.97	0.86	902	1,113	361	2,376							
23-1011	Lawyers	39,746	43,353	3,607	9.08	0.87	892	1,100	361	2,353	\$167,415	Doctoral or prof. degree	None	None			
23-1021	Administrative Law Judges, Adjudicators, & Hearing Officers	397	394	-3	-0.76	-0.08	8	10	0	18	\$150,587	Doctoral or prof. degree	5 years or more	Short-term OJT training			
23-1022	Arbitrators, Mediators, & Conciliators	100	107	7	7.00	0.68	2	3	1	6	\$94,695	Bachelor's degree	Less than 5 years	Moderate-term OJT training			
23-2000	Legal Support Workers	9,107	10,435	1,328	14.58	1.37	326	655	133	1,114							
23-2011	Paralegals & Legal Assistants	6,184	7,270	1,086	17.56	1.63	224	487	109	820	\$81,472	Associate's degree	None	None			
23-2091	Court Reporters	68	82	14	20.59	1.89	2	4	1	7	\$48,723	Postsecondary non-degr	None	Short-term OJT training			
23-2093	Title Examiners, Abstractors, & Searchers	56	59	3	5.36	0.52	2	3	0	5	\$73,347	HS diploma or equivalent	None	Moderate-term OJT training			
23-2099	Legal Support Workers, All Other	2,799	3,024	225	8.04	0.78	97	161	22	280	\$64,692	Associate's degree	None	None			
25-0000	Education, Training, & Library Occupations	34,784	39,246	4,462	12.83	1.21	1,484	1,781	446	3,711	\$71,702						
25-1000	Postsecondary Teachers	12,729	14,331	1,602	12.59	1.19	498	621	160	1,279							
25-1011	Business Teachers, Postsecondary	621	746	125	20.13	1.85	25	31	12	68	\$100,245	Doctoral or prof. degree	None	None			
25-1021	Computer Science Teachers, Postsecondary	200	218	18	9.00	0.87	8	10	2	20	\$109,282	Doctoral or prof. degree	None	None			
25-1022	Mathematical Science Teachers, Postsecondary	215	234	19	8.84	0.85	8	10	2	20	\$87,866	Doctoral or prof. degree	None	None			
25-1031	Architecture Teachers, Postsecondary	43	47	4	9.30	0.89	2	2	0	4	\$112,129	Doctoral or prof. degree	None	None			
25-1032	Engineering Teachers, Postsecondary	140	158	18	12.86	1.22	6	7	2	15	\$137,064	Doctoral or prof. degree	None	None			
25-1042	Biological Science Teachers, Postsecondary	378	433	55	14.55	1.37	15	19	6	40	\$126,894	Doctoral or prof. degree	None	None			
25-1052	Chemistry Teachers, Postsecondary	100	110	10	10.00	0.96	4	5	1	10	\$72,844	Doctoral or prof. degree	None	None			
25-1053	Environmental Science Teachers, Postsecondary	36	39	3	8.33	0.80	1	2	0	3	\$80,863	Doctoral or prof. degree	None	None			
25-1054	Physics Teachers, Postsecondary	80	87	7	8.75	0.84	3	4	1	8	\$99,588	Doctoral or prof. degree	None	None			
25-1061	Anthropology & Archeology Teachers, Postsecondary	46	50	4	8.70	0.84	2	2	0	4	\$91,564	Doctoral or prof. degree	None	None			
25-1062	Area, Ethnic, & Cultural Studies Teachers, Postsecondary	446	487	41	9.19	0.88	17	21	4	42	\$91,215	Doctoral or prof. degree	None	None			
25-1063	Economics Teachers, Postsecondary	222	243	21	9.46	0.91	9	11	2	22	\$104,137	Doctoral or prof. degree	None	None			
25-1065	Political Science Teachers, Postsecondary	1,129	1,234	105	9.30	0.89	44	54	10	108	\$107,391	Doctoral or prof. degree	None	None			
25-1066	Psychology Teachers, Postsecondary	140	162	22	15.71	1.47	6	7	2	15	\$102,422	Doctoral or prof. degree	None	None			
25-1067	Sociology Teachers, Postsecondary	136	149	13	9.56	0.92	5	6	1	12	\$119,971	Doctoral or prof. degree	None	None			
25-1069	Social Sciences Teachers, Postsecondary, All Other	40	43	3	7.50	0.73	2	2	0	4	\$70,341	Doctoral or prof. degree	None	None			
25-1071	Health Specialties Teachers, Postsecondary	952	1,194	242	25.42	2.29	40	49	24	113	\$93,525	Doctoral or prof. degree	Less than 5 years	None			

Table 2: DISTRICT OF COLUMBIA LONG-TERM OCCUPATIONAL PROJECTIONS, SEPARATIONS, OPENINGS, AND WORKER CHARACTERISTICS, 2018 - 2028*

Soccode	Occupational Title	Employment Projections										Occupational Separations,			Worker Characteristics		
		2018-2028					2018-2028, annual average					Total	Work Experience		Typical on-the-job		
		2018	2028	Change	Percent	Growth	Rate	Exits	Transfers	Change	Openings	Median	Typical Education	in a related	Typical on-the-job		
									2018-2028	Annual Wage**	Needed for Entry	Occupation	training needed to				
25-1072	Nursing Instructors & Teachers, Postsecondary	544	686	142	26.10	2.35	23	28	14	65	\$140,300	Doctoral or prof. degree	Less than 5 years	None			
25-1081	Education Teachers, Postsecondary	1,801	1,973	172	9.55	0.92	69	87	17	173	\$62,866	Doctoral or prof. degree	Less than 5 years	None			
25-1111	Criminal Justice & Law Enforcement Teachers, Postsecondary	87	100	13	14.94	1.40	3	4	1	8	\$89,499	Doctoral or prof. degree	None	None			
25-1112	Law Teachers, Postsecondary	1,532	1,703	171	11.16	1.06	60	74	17	151	\$104,840	Doctoral or prof. degree	Less than 5 years	None			
25-1113	Social Work Teachers, Postsecondary	43	47	4	9.30	0.89	2	2	0	4	\$84,704	Doctoral or prof. degree	None	None			
25-1121	Art, Drama, & Music Teachers, Postsecondary	481	532	51	10.60	1.01	19	23	5	47	\$83,368	Master's degree	None	None			
25-1122	Communications Teachers, Postsecondary	283	308	25	8.83	0.85	11	14	2	27	\$79,132	Doctoral or prof. degree	None	None			
25-1123	English Language & Literature Teachers, Postsecondary	354	387	33	9.32	0.90	14	17	3	34	\$95,265	Doctoral or prof. degree	None	None			
25-1124	Foreign Language & Literature Teachers, Postsecondary	657	759	102	15.53	1.45	26	32	10	68	\$69,871	Doctoral or prof. degree	None	None			
25-1125	History Teachers, Postsecondary	111	122	11	9.91	0.95	4	5	1	10	\$107,493	Doctoral or prof. degree	None	None			
25-1126	Philosophy & Religion Teachers, Postsecondary	518	579	61	11.78	1.12	20	25	6	51	\$81,353	Doctoral or prof. degree	None	None			
25-1191	Graduate Teaching Assistants	110	117	7	6.36	0.62	4	5	1	10	\$31,914	Bachelor's degree	None	None			
25-1194	Vocational Education Teachers, Postsecondary	78	78	0	0.00	0.00	3	4	0	7	\$68,335	Bachelor's degree	Less than 5 years	None			
25-1199	Postsecondary Teachers, All Other	1,155	1,251	96	8.31	0.80	44	55	10	109	\$73,717	Doctoral or prof. degree	None	None			
25-2000	Preschool, Primary, Secondary, & Special Education School Teachers	11,249	12,929	1,680	14.93	1.40	380	544	168	1,092							
25-2011	Preschool Teachers, Except Special Education	1,496	1,750	254	16.98	1.58	64	99	25	188	\$39,674	Associate's degree	None	None			
25-2012	Kindergarten Teachers, Except Special Education	88	101	13	14.77	1.39	4	6	1	11	\$56,447	Bachelor's degree	None	None			
25-2021	Elementary School Teachers, Except Special Education	3,404	3,911	507	14.89	1.40	114	156	51	321	\$79,580	Bachelor's degree	None	None			
25-2022	Middle School Teachers, Except Special & Career/Technical Education	760	876	116	15.26	1.43	25	35	12	72	\$73,949	Bachelor's degree	None	None			
25-2031	Secondary School Teachers, Except Special & Career/Technical Education	3,983	4,556	573	14.39	1.35	119	180	57	356	\$64,658	Bachelor's degree	None	None			
25-2052	Special Education Teachers, Kindergarten & Elementary School	612	698	86	14.05	1.32	22	28	9	59	\$81,815	Bachelor's degree	None	None			
25-2053	Special Education Teachers, Middle School	203	230	27	13.30	1.26	7	9	3	19	\$79,207	Bachelor's degree	None	None			
25-2054	Special Education Teachers, Secondary School	507	580	73	14.40	1.35	18	23	7	48	\$73,878	Bachelor's degree	None	None			
25-2059	Special Education Teachers, All Other	161	188	27	16.77	1.56	6	7	3	16	\$64,202	Bachelor's degree	None	None			
25-3000	Other Teachers & Instructors	2,728	3,061	333	12.21	1.16	167	163	33	363							
25-3011	Adult Basic & Secondary Education & Literacy Teachers & Instructor	260	260	0	0.00	0.00	15	15	0	30	\$60,811	Bachelor's degree	None	None			
25-3021	Self-Enrichment Education Teachers	658	777	119	18.09	1.68	41	40	12	93	\$49,947	HS diploma or equivalent	Less than 5 years	None			
25-3097	Teachers & Instructors, All Other, Except Substitute Teachers	1,690	1,889	199	11.78	1.12	103	101	20	224	\$69,798	Bachelor's degree	None	None			
25-3098	Substitute Teachers	120	135	15	12.50	1.18	7	7	2	16	\$32,059	Bachelor's degree	None	None			
25-4000	Librarians, Curators, & Archivists	2,847	2,985	138	4.85	0.47	170	164	14	348							
25-4011	Archivists	275	296	21	7.64	0.74	13	18	2	33	\$75,647	Master's degree	None	None			
25-4012	Curators	214	229	15	7.01	0.68	10	14	2	26	\$81,768	Master's degree	None	None			
25-4013	Museum Technicians & Conservators	541	545	4	0.74	0.07	25	34	0	59	\$68,667	Bachelor's degree	None	None			
25-4021	Librarians	1,175	1,273	98	8.34	0.80	66	56	10	132	\$84,751	Master's degree	None	None			
25-4031	Library Technicians	642	642	0	0.00	0.00	57	41	0	98	\$50,515	Postsecondary non-degr	None	None			
25-9000	Other Education, Training, & Library Occupations	5,231	5,940	709	13.55	1.28	268	290	71	629							
25-9011	Audio-Visual & Multimedia Collections Specialists	70	77	7	10.00	0.96	3	4	1	8	\$78,450	Bachelor's degree	Less than 5 years	None			
25-9031	Instructional Coordinators	1,576	1,760	184	11.68	1.11	69	86	18	173	\$96,171	Master's degree	5 years or more	None			
25-9041	Teacher Assistants	2,894	3,333	439	15.17	1.42	165	163	44	372	\$35,580	Some college, no degree	None	None			
25-9099	Education, Training, & Library Workers, All Other	691	770	79	11.43	1.09	30	38	8	76	\$82,739	Bachelor's degree	None	None			
27-0000	Arts, Design, Entertainment, Sports, & Media Occupations	42,743	46,791	4,048	9.47	0.91	1,498	3,258	405	5,161	\$85,195						
27-1000	Art & Design Workers	6,402	6,717	315	4.92	0.48	272	410	32	714							
27-1011	Art Directors	1,176	1,260	84	7.14	0.69	62	70	8	140	\$76,018	Bachelor's degree	5 years or more	None			
27-1013	Fine Artists, Including Painters, Sculptors, & Illustrators	65	73	8	12.31	1.17	4	4	1	9	\$30,392	Bachelor's degree	None	Long-term OJT training			
27-1014	Multimedia Artists & Animators	132	137	5	3.79	0.37	7	8	0	15	\$92,954	Bachelor's degree	None	None			
27-1019	Artists & Related Workers, All Other	1,766	1,734	-32	-1.81	-0.18	90	101	-3	188	\$98,920	No formal educational c	None	Long-term OJT training			
27-1023	Floral Designers	107	90	-17	-15.90	-1.72	3	7	-2	8	\$43,001	HS diploma or equivalent	None	Moderate-term OJT training			
27-1024	Graphic Designers	1,990	2,194	204	10.25	0.98	68	141	20	229	\$70,380	Bachelor's degree	None	None			
27-1025	Interior Designers	656	697	41	6.25	0.61	22	46	4	72	\$75,913	Bachelor's degree	None	None			
27-1026	Merchandise Displayers & Window Trimmers	180	184	4	2.22	0.22	6	12	0	18	\$35,939	HS diploma or equivalent	None	Short-term OJT training			
27-1027	Set & Exhibit Designers	241	250	9	3.73	0.37	8	16	1	25	\$75,646	Bachelor's degree	None	None			

Table 2: DISTRICT OF COLUMBIA LONG-TERM OCCUPATIONAL PROJECTIONS, SEPARATIONS, OPENINGS, AND WORKER CHARACTERISTICS, 2018 - 2028*

Soccode	Occupational Title	Employment Projections							Occupational Separations, 2018-2028, annual average				Total	Median Annual Wage**	Worker Characteristics		
		Employment		Change 2018-2028		Growth	Labor Force			Openings	Typical Education Needed for Entry	Work Experience in a related Occupation			Typical on-the-job training needed to attain competency		
		2018	2028	Numeric	Percent	Rate	Exits	Transfers	Change								
27-1029	Designers, All Other	65	71	6	9.23	0.89	2	5	1	8	\$68,305	Bachelor's degree	None	None			
27-2000	Entertainers & Performers, Sports & Related Workers	4,059	4,419	360	8.87	0.85	148	334	36	518							
27-2011	Actors	305	350	45	14.75	1.39	12	26	4	42		Some college, no degree	None	Long-term OJT training			
27-2012	Producers & Directors	2,301	2,497	196	8.52	0.82	52	183	20	255	\$84,676	Bachelor's degree	Less than 5 years	None			
27-2022	Coaches & Scouts	594	651	57	9.60	0.92	35	56	6	97	\$54,123	Bachelor's degree	None	None			
27-2031	Dancers	123	130	7	5.69	0.56	8	14	1	23		No formal educational c	None	Long-term OJT training			
27-2032	Choreographers	90	93	3	3.33	0.33	6	10	0	16	\$67,576	HS diploma or equivalent	5 years or more	Long-term OJT training			
27-2041	Music Directors & Composers	120	131	11	9.17	0.88	7	8	1	16	\$59,545	Bachelor's degree	Less than 5 years	None			
27-2042	Musicians & Singers	263	278	15	5.70	0.56	16	17	2	35		No formal educational c	None	Long-term OJT training			
27-2099	Entertainers & Performers, Sports & Related Workers, All Other	249	273	24	9.64	0.92	11	19	2	32		No formal educational c	None	Short-term OJT training			
27-3000	Media & Communication Workers	28,850	31,856	3,006	10.42	1.00	962	2,257	301	3,520							
27-3011	Radio & Television Announcers	416	417	1	0.24	0.02	17	31	0	48	\$66,766	Bachelor's degree	None	None			
27-3021	Broadcast News Analysts	394	466	72	18.27	1.69	15	38	7	60	\$97,193	Bachelor's degree	None	None			
27-3022	Reporters & Correspondents	2,033	2,271	238	11.71	1.11	74	190	24	288	\$97,100	Bachelor's degree	None	None			
27-3031	Public Relations Specialists	18,411	20,550	2,139	11.62	1.11	576	1,448	214	2,238	\$91,612	Bachelor's degree	None	None			
27-3041	Editors	3,711	4,007	296	7.98	0.77	117	304	30	451	\$82,381	Bachelor's degree	Less than 5 years	None			
27-3042	Technical Writers	705	856	151	21.42	1.96	24	51	15	90	\$86,997	Bachelor's degree	Less than 5 years	Short-term OJT training			
27-3043	Writers & Authors	2,400	2,404	4	0.17	0.02	102	148	0	250	\$101,411	Bachelor's degree	None	Long-term OJT training			
27-3091	Interpreters & Translators	549	637	88	16.03	1.50	26	33	9	68	\$102,931	Bachelor's degree	None	None			
27-3099	Media & Communication Workers, All Other	227	245	18	7.93	0.77	10	13	2	25	\$67,032	HS diploma or equivalent	None	Short-term OJT training			
27-4000	Media & Communication Equipment Workers	3,432	3,799	367	10.69	1.02	116	257	37	410							
27-4011	Audio & Video Equipment Technicians	769	940	171	22.24	2.03	28	63	17	108	\$63,328	Postsecondary non-degr	None	Short-term OJT training			
27-4012	Broadcast Technicians	640	706	66	10.31	0.99	22	50	7	79	\$88,876	Associate's degree	None	Short-term OJT training			
27-4013	Radio Operators	64	64	0	0.00	0.00	2	5	0	7	\$58,141	HS diploma or equivalent	None	Short-term OJT training			
27-4014	Sound Engineering Technicians	77	85	8	10.39	0.99	3	6	1	10	\$72,560	Postsecondary non-degr	None	Short-term OJT training			
27-4021	Photographers	517	515	-2	-0.39	-0.04	20	31	0	51	\$87,461	HS diploma or equivalent	None	Moderate-term OJT training			
27-4031	Camera Operators, Television, Video, & Motion Picture	640	730	90	14.06	1.32	18	49	9	76	\$83,444	Bachelor's degree	None	None			
27-4032	Film & Video Editors	244	282	38	15.57	1.46	7	19	4	30	\$71,140	Bachelor's degree	None	None			
27-4099	Media & Communication Equipment Workers, All Other	481	477	-4	-0.83	-0.08	16	35	0	51	\$111,102	HS diploma or equivalent	None	Short-term OJT training			
29-0000	Healthcare Practitioners & Technical Occupations	34,425	37,635	3,210	9.32	0.90	898	1,032	321	2,251	\$85,506						
29-1000	Health Diagnosing & Treating Practitioners	23,978	26,235	2,257	9.41	0.90	593	581	226	1,400							
29-1021	Dentists, General	394	432	38	9.64	0.93	9	4	4	17	\$175,376	Doctoral or prof. degree	None	None			
29-1029	Dentists, All Other Specialists	41	40	-1	-2.44	-0.25	1	0	0	1	\$183,737	Doctoral or prof. degree	None	Internship/residency			
29-1031	Dietitians & Nutritionists	458	515	57	12.45	1.18	16	15	6	37	\$68,703	Bachelor's degree	None	Internship/residency			
29-1041	Optometrists	116	142	26	22.41	2.04	2	1	3	6	\$81,319	Doctoral or prof. degree	None	None			
29-1051	Pharmacists	963	996	33	3.43	0.34	23	21	3	47	\$130,179	Doctoral or prof. degree	None	None			
29-1061	Anesthesiologists	226	227	1	0.44	0.04	4	3	0	7		Doctoral or prof. degree	None	Internship/residency			
29-1062	Family & General Practitioners	382	409	27	7.07	0.69	6	5	3	14	\$163,106	Doctoral or prof. degree	None	Internship/residency			
29-1063	Internists, General	1,328	1,414	86	6.48	0.63	22	18	9	49	\$87,791	Doctoral or prof. degree	None	Internship/residency			
29-1064	Obstetricians & Gynecologists	187	191	4	2.14	0.21	3	2	0	5		Doctoral or prof. degree	None	Internship/residency			
29-1065	Pediatricians, General	321	335	14	4.36	0.43	5	4	1	10	\$116,147	Doctoral or prof. degree	None	Internship/residency			
29-1066	Psychiatrists	227	246	19	8.37	0.81	4	3	2	9	\$191,315	Doctoral or prof. degree	None	Internship/residency			
29-1067	Surgeons	322	328	6	1.86	0.18	5	4	1	10		Doctoral or prof. degree	None	Internship/residency			
29-1069	Physicians & Surgeons, All Other	2,394	2,525	131	5.47	0.53	40	32	13	85	\$202,056	Doctoral or prof. degree	None	Internship/residency			
29-1071	Physician Assistants	627	799	172	27.43	2.45	11	30	17	58	\$119,863	Master's degree	None	None			
29-1081	Podiatrists	42	45	3	7.14	0.69	1	1	0	2	\$116,199	Doctoral or prof. degree	None	Internship/residency			
29-1122	Occupational Therapists	375	436	61	16.27	1.52	9	14	6	29	\$94,604	Master's degree	None	None			
29-1123	Physical Therapists	646	745	99	15.33	1.44	13	16	10	39	\$87,996	Doctoral or prof. degree	None	None			
29-1124	Radiation Therapists	128	134	6	4.69	0.46	2	4	1	7	\$80,133	Associate's degree	None	None			
29-1125	Recreational Therapists	138	146	8	5.80	0.57	3	4	1	8	\$65,649	Bachelor's degree	None	None			
29-1126	Respiratory Therapists	375	438	63	16.80	1.57	11	10	6	27	\$74,255	Associate's degree	None	None			

Table 2: DISTRICT OF COLUMBIA LONG-TERM OCCUPATIONAL PROJECTIONS, SEPARATIONS, OPENINGS, AND WORKER CHARACTERISTICS, 2018 - 2028*

Soccode	Occupational Title	Employment Projections								Occupational Separations, 2018-2028, annual average			Total	Median Annual Wage**	Worker Characteristics		
		Employment		Change 2018-2028		Growth Rate	Labor Force Exits	Transfers	Change	Openings	Typical Education Needed for Entry	Work Experience in a related Occupation			Typical on-the-job training needed to attain competency		
		2018	2028	Numeric	Percent												
29-1127	Speech-Language Pathologists	300	376	76	25.33	2.28	7	11	8	26	\$97,165	Master's degree	None	Internship/residency			
29-1131	Veterinarians	142	159	17	11.97	1.14	3	3	2	8	\$93,317	Doctoral or prof. degree	None	None			
29-1141	Registered Nurses	11,984	13,037	1,053	8.79	0.85	347	321	105	773	\$91,700	Bachelor's degree	None	None			
29-1151	Nurse Anesthetists	115	125	10	8.70	0.84	2	4	1	7	\$189,283	Master's degree	None	None			
29-1161	Nurse Midwives	42	46	4	9.52	0.91	1	2	0	3	\$89,464	Master's degree	None	None			
29-1171	Nurse Practitioners	870	1,083	213	24.48	2.21	19	33	21	73	\$114,239	Master's degree	None	None			
29-1181	Audiologists	123	137	14	11.38	1.08	2	3	1	6	\$103,833	Doctoral or prof. degree	None	None			
29-1199	Health Diagnosing & Treating Practitioners, All Other	654	668	14	2.14	0.21	19	12	1	32	\$127,419	Master's degree	None	None			
29-2000	Health Technologists & Technicians	9,564	10,404	840	8.78	0.85	283	419	84	786							
29-2010	Clinical Laboratory Technologists & Technicians	1,028	1,096	68	6.61	0.64	29	38	7	74	\$60,366	Bachelor's degree	None	None			
29-2021	Dental Hygienists	535	598	63	11.78	1.12	24	14	6	44	\$88,481	Associate's degree	None	None			
29-2031	Cardiovascular Technologists & Technicians	159	165	6	3.77	0.37	4	5	1	10	\$85,633	Associate's degree	None	None			
29-2032	Diagnostic Medical Sonographers	189	222	33	17.46	1.62	5	6	3	14	\$93,522	Associate's degree	None	None			
29-2033	Nuclear Medicine Technologists	47	48	1	2.13	0.21	1	1	0	2	\$97,362	Associate's degree	None	None			
29-2034	Radiologic Technologists	484	510	26	5.37	0.52	12	15	3	30	\$79,743	Associate's degree	None	None			
29-2035	Magnetic Resonance Imaging Technologists	99	104	5	5.05	0.49	2	3	0	5	\$93,243	Associate's degree	Less than 5 years	None			
29-2041	Emergency Medical Technicians & Paramedics	1,668	1,776	108	6.47	0.63	31	84	11	126	\$58,981	Postsecondary non-degr	None	None			
29-2051	Dietetic Technicians	117	126	9	7.69	0.74	4	6	1	11	\$28,832	Associate's degree	None	None			
29-2052	Pharmacy Technicians	959	1,086	127	13.24	1.25	30	53	13	96	\$41,485	HS diploma or equivalent	None	Moderate-term OJT training			
29-2053	Psychiatric Technicians	516	554	38	7.36	0.71	16	28	4	48	\$54,902	Postsecondary non-degr	Less than 5 years	Short-term OJT training			
29-2054	Respiratory Therapy Technicians	101	43	-58	-57.40	-8.18	2	4	-6	0	\$76,945	Associate's degree	None	None			
29-2055	Surgical Technologists	258	267	9	3.49	0.34	8	14	1	23	\$61,216	Postsecondary non-degr	None	None			
29-2056	Veterinary Technologists & Technicians	200	227	27	13.50	1.27	6	11	3	20	\$37,113	Associate's degree	None	None			
29-2057	Ophthalmic Medical Technicians	64	72	8	12.50	1.18	2	4	1	7	\$48,364	Postsecondary non-degr	None	None			
29-2061	Licensed Practical & Licensed Vocational Nurses	1,751	1,957	206	11.76	1.12	63	78	21	162	\$54,845	Postsecondary non-degr	None	None			
29-2071	Medical Records & Health Information Technicians	507	553	46	9.07	0.87	16	18	5	39	\$51,422	Postsecondary non-degr	None	None			
29-2081	Opticians, Dispensing	290	346	56	19.31	1.78	12	13	6	31	\$48,256	HS diploma or equivalent	None	Long-term OJT training			
29-2099	Health Technologists & Technicians, All Other	563	622	59	10.48	1.00	16	24	6	46	\$50,082	Postsecondary non-degr	None	None			
29-9000	Other Healthcare Practitioners & Technical Occupations	883	996	113	12.80	1.21	22	31	11	64							
29-9011	Occupational Health & Safety Specialists	548	608	60	10.95	1.04	13	19	6	38	\$91,738	Bachelor's degree	None	None			
29-9012	Occupational Health & Safety Technicians	85	95	10	11.76	1.12	2	3	1	6	\$50,794	HS diploma or equivalent	None	Moderate-term OJT training			
29-9091	Athletic Trainers	69	87	18	26.09	2.35	2	3	2	7	\$58,751	Bachelor's degree	None	None			
29-9092	Genetic Counselors	47	59	12	25.53	2.30	1	2	1	4	\$82,043	Master's degree	None	None			
29-9099	Healthcare Practitioners & Technical Workers, All Other	134	147	13	9.70	0.93	3	5	1	9	\$86,575	Postsecondary non-degr	None	None			
31-0000	Healthcare Support Occupations	14,457	17,311	2,854	19.74	1.82	806	976	285	2,067	\$32,258						
31-1000	Nursing, Psychiatric, & Home Health Aides	10,549	12,817	2,268	21.50	1.97	628	681	227	1,536							
31-1011	Home Health Aides	6,140	8,016	1,876	30.55	2.70	380	413	188	981	\$30,666	HS diploma or equivalent	None	Short-term OJT training			
31-1013	Psychiatric Aides	397	472	75	18.89	1.75	23	25	8	56	\$28,200	HS diploma or equivalent	None	Short-term OJT training			
31-1014	Nursing Assistants	3,797	4,107	310	8.16	0.79	212	230	31	473	\$33,107	Postsecondary non-degr	None	None			
31-1015	Orderlies	215	222	7	3.26	0.32	12	13	1	26	\$32,795	HS diploma or equivalent	None	Short-term OJT training			
31-2000	Occupational Therapy & Physical Therapist Assistants & Aides	353	406	53	15.01	1.41	16	30	5	51							
31-2021	Physical Therapist Assistants	186	213	27	14.52	1.36	9	16	3	28	\$38,746	Associate's degree	None	None			
31-2022	Physical Therapist Aides	116	138	22	18.97	1.75	6	10	2	18	\$31,096	HS diploma or equivalent	None	Short-term OJT training			
31-9000	Other Healthcare Support Occupations	3,555	4,088	533	14.99	1.41	161	265	53	479							
31-9011	Massage Therapists	60	72	12	20.00	1.84	4	4	1	9	\$34,850	Postsecondary non-degr	None	None			
31-9091	Dental Assistants	574	635	61	10.63	1.02	28	40	6	74	\$49,474	Postsecondary non-degr	None	None			
31-9092	Medical Assistants	2,047	2,442	395	19.30	1.78	88	160	40	288	\$44,029	Postsecondary non-degr	None	None			
31-9093	Medical Equipment Preparers	232	253	21	9.05	0.87	12	16	2	30	\$42,636	HS diploma or equivalent	None	Moderate-term OJT training			
31-9094	Medical Transcriptionists	80	62	-18	-22.50	-2.52	4	6	-2	8	\$29,199	Postsecondary non-degr	None	None			
31-9095	Pharmacy Aides	83	83	0	0.00	0.00	4	6	0	10	\$50,920	HS diploma or equivalent	None	Short-term OJT training			
31-9097	Phlebotomists	273	328	55	20.15	1.85	11	21	6	38	\$43,963	Postsecondary non-degr	None	None			

Table 2: DISTRICT OF COLUMBIA LONG-TERM OCCUPATIONAL PROJECTIONS, SEPARATIONS, OPENINGS, AND WORKER CHARACTERISTICS, 2018 - 2028*

Soccode	Occupational Title	Employment Projections										Occupational Separations,			Worker Characteristics		
		2018-2028					2018-2028, annual average					Total	Median	Typical Education	Work Experience	Typical on-the-job	
		2018	2028	Numeric	Percent	Rate	Exits	Transfers	Change	Openings	2018-2028	Annual Wage**	Needed for Entry	in a related Occupation	training needed to attain competency		
31-9099	Healthcare Support Workers, All Other	193	199	6	3.11	0.31	10	13	1	24	\$51,154	HS diploma or equivalent	None	None			
33-0000	Protective Service Occupations	30,099	31,028	929	3.09	0.30	1,249	1,922	93	3,264	\$61,329						
33-1000	Supervisors of Protective Service Workers	2,860	2,905	45	1.57	0.16	83	132	4	219							
33-1011	First-Line Supervisors of Correctional Officers	59	54	-5	-8.47	-0.88	2	2	0	4	\$84,609	HS diploma or equivalent	Less than 5 years	None			
33-1012	First-Line Supervisors of Police & Detectives	1,436	1,437	1	0.07	0.01	35	54	0	89	\$113,732	HS diploma or equivalent	Less than 5 years	Moderate-term OJT training			
33-1021	First-Line Supervisors of Fire Fighting & Prevention Workers	302	302	0	0.00	0.00	7	12	0	19	\$112,550	Postsecondary non-degr	Less than 5 years	Moderate-term OJT training			
33-1099	First-Line Supervisors of Protective Service Workers, All Other	1,063	1,112	49	4.61	0.45	39	64	5	108	\$62,018	HS diploma or equivalent	Less than 5 years	None			
33-2000	Fire Fighting & Prevention Workers	588	590	2	0.34	0.03	12	30	0	42							
33-2011	Firefighters	521	520	-1	-0.19	-0.02	9	26	0	35	\$81,015	Postsecondary non-degr	None	Long-term OJT training			
33-2021	Fire Inspectors & Investigators	67	70	3	4.48	0.44	3	4	0	7	\$86,547	Postsecondary non-degr	5 years or more	Moderate-term OJT training			
33-3000	Law Enforcement Workers	10,744	10,530	-214	-1.99	-0.20	258	483	-21	720							
33-3012	Correctional Officers & Jailers	940	862	-78	-8.30	-0.86	34	45	-8	71	\$60,896	HS diploma or equivalent	None	Moderate-term OJT training			
33-3021	Detectives & Criminal Investigators	3,609	3,577	-32	-0.89	-0.09	76	154	-3	227	\$138,325	HS diploma or equivalent	Less than 5 years	Moderate-term OJT training			
33-3041	Parking Enforcement Workers	254	154	-100	-39.40	-4.88	5	10	-10	5	\$55,303	HS diploma or equivalent	None	Short-term OJT training			
33-3051	Police & Sheriff's Patrol Officers	5,941	5,937	-4	-0.07	-0.01	143	274	0	417	\$77,735	HS diploma or equivalent	None	Moderate-term OJT training			
33-9000	Other Protective Service Workers	15,907	17,003	1,096	6.89	0.67	896	1,277	110	2,283							
33-9021	Private Detectives & Investigators	195	255	60	30.77	2.72	8	12	6	26	\$73,198	HS diploma or equivalent	Less than 5 years	Moderate-term OJT training			
33-9032	Security Guards	14,885	15,877	992	6.66	0.65	785	1,195	99	2,079	\$43,297	HS diploma or equivalent	None	Short-term OJT training			
33-9091	Crossing Guards	327	343	16	4.89	0.48	39	16	2	57	\$37,422	No formal educational c	None	Short-term OJT training			
33-9092	Lifeguards, Ski Patrol, & Other Recreational Protective Service Worker	237	261	24	10.13	0.97	33	27	2	62	\$39,864	No formal educational c	None	Short-term OJT training			
33-9099	Protective Service Workers, All Other	224	225	1	0.45	0.04	30	25	0	55	\$52,872	HS diploma or equivalent	None	Short-term OJT training			
35-0000	Food Preparation & Serving Related Occupations	57,716	64,968	7,252	12.56	1.19	4,195	6,260	725	11,180	\$32,055						
35-1000	Supervisors of Food Preparation & Serving Workers	5,348	6,069	721	13.48	1.27	234	613	72	919							
35-1011	Chefs & Head Cooks	1,047	1,195	148	14.14	1.33	34	113	15	162	\$67,042	HS diploma or equivalent	5 years or more	None			
35-1012	First-Line Supervisors of Food Preparation & Serving Workers	4,301	4,874	573	13.32	1.26	200	500	57	757	\$40,810	HS diploma or equivalent	Less than 5 years	None			
35-2000	Cooks & Food Preparation Workers	14,750	16,808	2,058	13.95	1.31	918	1,439	206	2,563							
35-2011	Cooks, Fast Food	2,166	2,021	-145	-6.69	-0.69	111	185	-14	282	\$28,192	No formal educational c	None	Short-term OJT training			
35-2012	Cooks, Institution & Cafeteria	1,813	2,009	196	10.81	1.03	101	169	20	290	\$37,636	No formal educational c	None	Short-term OJT training			
35-2013	Cooks, Private Household	68	69	1	1.47	0.15	4	6	0	10		Postsecondary non-degr	Less than 5 years	None			
35-2014	Cooks, Restaurant	6,362	7,909	1,547	24.32	2.20	379	631	155	1,165	\$34,560	No formal educational c	Less than 5 years	Moderate-term OJT training			
35-2015	Cooks, Short Order	585	576	-9	-1.54	-0.15	31	51	-1	81	\$28,201	No formal educational c	None	Short-term OJT training			
35-2021	Food Preparation Workers	3,727	4,192	465	12.48	1.18	290	395	46	731	\$30,884	No formal educational c	None	Short-term OJT training			
35-3000	Food & Beverage Serving Workers	26,293	29,587	3,294	12.53	1.19	2,025	3,102	329	5,456							
35-3011	Bartenders	4,525	5,022	497	10.98	1.05	223	616	50	889	\$39,938	No formal educational c	None	Short-term OJT training			
35-3021	Combined Food Preparation & Serving Workers, Including Fast Food	9,204	10,994	1,790	19.45	1.79	805	993	179	1,977	\$30,537	No formal educational c	None	Short-term OJT training			
35-3022	Counter Attendants, Cafeteria, Food Concession, & Coffee Shop	1,825	1,947	122	6.68	0.65	212	197	12	421	\$30,702	No formal educational c	None	Short-term OJT training			
35-3031	Waiters & Waitresses	8,898	9,701	803	9.02	0.87	645	1,140	80	1,865	\$32,047	No formal educational c	None	Short-term OJT training			
35-3041	Food Servers, Nonrestaurant	1,841	1,923	82	4.45	0.44	138	156	8	302	\$31,348	No formal educational c	None	Short-term OJT training			
35-9000	Other Food Preparation & Serving Related Workers	11,325	12,504	1,179	10.41	1.00	1,019	1,106	118	2,243							
35-9011	Dining Room & Cafeteria Attendants & Bartender Helpers	4,903	5,553	650	13.26	1.25	431	462	65	958	\$32,083	No formal educational c	None	Short-term OJT training			
35-9021	Dishwashers	4,084	4,307	223	5.46	0.53	312	354	22	688	\$30,420	No formal educational c	None	Short-term OJT training			
35-9031	Hosts & Hostesses, Restaurant, Lounge, & Coffee Shop	2,263	2,558	295	13.04	1.23	269	283	30	582	\$30,400	No formal educational c	None	Short-term OJT training			
35-9099	Food Preparation & Serving Related Workers, All Other	75	86	11	14.67	1.38	7	7	1	15	\$40,675	No formal educational c	None	Short-term OJT training			
37-0000	Building & Grounds Cleaning & Maintenance Occupations	26,521	29,053	2,532	9.55	0.92	1,703	1,936	253	3,892	\$33,566						
37-1000	Supervisors of Building & Grounds Cleaning & Maintenance Workers	2,041	2,263	222	10.88	1.04	90	154	22	266							
37-1011	First-Line Supervisors of Housekeeping & Janitorial Workers	1,972	2,189	217	11.00	1.05	87	149	22	258	\$41,772	HS diploma or equivalent	Less than 5 years	None			
37-1012	First-Line Supervisors of Landscaping, Lawn Service, & Groundskeeping	69	74	5	7.25	0.70	2	5	0	7	\$59,159	HS diploma or equivalent	Less than 5 years	None			
37-2000	Building Cleaning & Pest Control Workers	23,366	25,566	2,200	9.42	0.90	1,566	1,678	220	3,464							
37-2011	Janitors & Cleaners, Except Maids & Housekeeping Cleaners	16,126	17,976	1,850	11.47	1.09	1,043	1,203	185	2,431	\$31,559	No formal educational c	None	Short-term OJT training			
37-2012	Maids & Housekeeping Cleaners	7,177	7,522	345	4.81	0.47	520	470	34	1,024	\$43,800	No formal educational c	None	Short-term OJT training			
37-2021	Pest Control Workers	36	38	2	5.56	0.54	1	4	0	5	\$42,788	HS diploma or equivalent	None	Moderate-term OJT training			

Table 2: DISTRICT OF COLUMBIA LONG-TERM OCCUPATIONAL PROJECTIONS, SEPARATIONS, OPENINGS, AND WORKER CHARACTERISTICS, 2018 - 2028*

Soccode	Occupational Title	Employment Projections							Occupational Separations, 2018-2028, annual average			Total	Median Annual Wage**	Typical Education Needed for Entry	Work Experience in a related Occupation	Typical on-the-job training needed to attain competency
		2018		2028		Change 2018-2028	Growth Rate	Labor Force								
		Numeric	Percent	Exits	Transfers			Change	Openings							
37-3000	Grounds Maintenance Workers	1,114	1,224	110	9.87	0.95	48	104	11	163						
37-3011	Landscaping & Groundskeeping Workers	981	1,079	98	9.99	0.96	42	91	10	143	\$34,725	No formal educational c	None	Short-term OJT training		
37-3013	Tree Trimmers & Pruners	64	70	6	9.38	0.90	3	6	1	10	\$64,954	HS diploma or equivalent	None	Short-term OJT training		
37-3019	Grounds Maintenance Workers, All Other	48	54	6	12.50	1.18	2	4	1	7	\$52,077	No formal educational c	None	Short-term OJT training		
39-0000	Personal Care & Service Occupations	18,958	22,030	3,072	16.20	1.51	1,460	1,636	307	3,403	\$32,317					
39-1000	Supervisors of Personal Care & Service Workers	518	601	83	16.02	1.50	23	33	8	64						
39-1021	First-Line Supervisors of Personal Service Workers	492	570	78	15.85	1.48	21	30	8	59	\$45,207	HS diploma or equivalent	Less than 5 years	None		
39-2000	Animal Care & Service Workers	673	798	125	18.57	1.72	51	68	12	131						
39-2021	Nonfarm Animal Caretakers	673	798	125	18.57	1.72	51	68	12	131	\$37,650	HS diploma or equivalent	None	Short-term OJT training		
39-3000	Entertainment Attendants & Related Workers	1,527	1,725	198	12.97	1.23	197	186	20	403						
39-3011	Gaming Dealers	78	87	9	11.54	1.10	5	8	1	14	\$28,172	HS diploma or equivalent	None	Short-term OJT training		
39-3031	Ushers, Lobby Attendants, & Ticket Takers	1,077	1,213	136	12.63	1.20	150	129	14	293	\$30,015	No formal educational c	None	Short-term OJT training		
39-3091	Amusement & Recreation Attendants	259	300	41	15.83	1.48	30	35	4	69	\$28,247	No formal educational c	None	Short-term OJT training		
39-3092	Costume Attendants	51	56	5	9.80	0.94	6	7	0	13	\$41,952	HS diploma or equivalent	None	Short-term OJT training		
39-3093	Locker Room, Coatroom, & Dressing Room Attendants	48	54	6	12.50	1.18	5	6	1	12	\$34,068	HS diploma or equivalent	None	Short-term OJT training		
39-4000	Funeral Service Workers	49	51	2	4.08	0.40	3	3	0	6						
39-4031	Morticians, Undertakers, & Funeral Directors	38	39	1	2.63	0.26	2	3	0	5	\$60,133	Associate's degree	None	Long-term OJT training		
39-5000	Personal Appearance Workers	1,693	1,874	181	10.69	1.02	105	112	18	235						
39-5011	Barbers	137	147	10	7.30	0.71	7	8	1	16	\$40,669	Postsecondary non-degr	None	None		
39-5012	Hairdressers, Hairstylists, & Cosmetologists	1,268	1,407	139	10.96	1.05	81	85	14	180	\$41,951	Postsecondary non-degr	None	None		
39-5091	Makeup Artists, Theatrical & Performance	65	70	5	7.69	0.74	4	4	0	8	\$91,375	Postsecondary non-degr	None	None		
39-5092	Manicurists & Pedicurists	56	64	8	14.29	1.34	3	4	1	8	\$29,640	Postsecondary non-degr	None	None		
39-5093	Shampooers	114	127	13	11.40	1.09	7	7	1	15	\$30,065	No formal educational c	None	Short-term OJT training		
39-5094	Skincare Specialists	53	59	6	11.32	1.08	3	3	1	7	\$28,202	Postsecondary non-degr	None	None		
39-6000	Baggage Porters, Bellhops, & Concierges	1,714	1,972	258	15.05	1.41	96	167	26	289						
39-6011	Baggage Porters & Bellhops	622	722	100	16.08	1.50	35	61	10	106	\$29,580	HS diploma or equivalent	None	Short-term OJT training		
39-6012	Concierges	1,092	1,250	158	14.47	1.36	61	106	16	183	\$33,701	HS diploma or equivalent	None	Moderate-term OJT training		
39-7000	Tour & Travel Guides	502	558	56	11.16	1.06	41	52	6	99						
39-7010	Tour & Travel Guides	502	558	56	11.16	1.06	41	52	6	99	\$30,246	HS diploma or equivalent	None	Moderate-term OJT training		
39-9000	Other Personal Care & Service Workers	12,282	14,451	2,169	17.66	1.64	945	1,014	217	2,176						
39-9011	Childcare Workers	4,372	4,746	374	8.55	0.82	337	343	37	717	\$32,760	HS diploma or equivalent	None	Short-term OJT training		
39-9021	Personal Care Aides	5,346	6,781	1,435	26.84	2.41	448	397	144	989	\$31,332	HS diploma or equivalent	None	Short-term OJT training		
39-9031	Fitness Trainers & Aerobics Instructors	577	688	111	19.24	1.78	38	67	11	116	\$51,269	HS diploma or equivalent	None	Short-term OJT training		
39-9032	Recreation Workers	658	704	46	6.99	0.68	41	72	5	118	\$49,817	HS diploma or equivalent	None	Short-term OJT training		
39-9041	Residential Advisors	1,002	1,181	179	17.86	1.66	60	106	18	184	\$33,829	HS diploma or equivalent	None	Short-term OJT training		
39-9099	Personal Care & Service Workers, All Other	327	351	24	7.34	0.71	21	28	2	51	\$28,248	HS diploma or equivalent	None	Short-term OJT training		
41-0000	Sales & Related Occupations	29,518	31,542	2,024	6.86	0.67	1,672	2,642	202	4,516	\$37,899					
41-1000	Supervisors of Sales Workers	3,027	3,176	149	4.92	0.48	105	222	15	342						
41-1011	First-Line Supervisors of Retail Sales Workers	2,060	2,177	117	5.68	0.55	73	160	12	245	\$49,050	HS diploma or equivalent	Less than 5 years	None		
41-1012	First-Line Supervisors of Non-Retail Sales Workers	967	999	32	3.31	0.33	32	62	3	97	\$73,510	HS diploma or equivalent	Less than 5 years	None		
41-2000	Retail Sales Workers	15,452	16,017	565	3.66	0.36	1,174	1,477	56	2,707						
41-2011	Cashiers	8,626	8,786	160	1.85	0.18	777	865	16	1,658	\$28,250	No formal educational c	None	Short-term OJT training		
41-2021	Counter & Rental Clerks	847	967	120	14.17	1.33	46	70	12	128	\$28,087	No formal educational c	None	Short-term OJT training		
41-2022	Parts Salespersons	66	68	2	3.03	0.30	3	5	0	8	\$28,272	No formal educational c	None	Moderate-term OJT training		
41-2031	Retail Salespersons	5,913	6,196	283	4.79	0.47	348	536	28	912	\$31,880	No formal educational c	None	Short-term OJT training		
41-3000	Sales Representatives, Services	6,362	7,082	720	11.32	1.08	210	606	72	888						
41-3011	Advertising Sales Agents	871	916	45	5.17	0.51	28	93	4	125	\$61,971	HS diploma or equivalent	None	Moderate-term OJT training		
41-3021	Insurance Sales Agents	379	452	73	19.26	1.78	15	25	7	47	\$54,748	HS diploma or equivalent	None	Moderate-term OJT training		
41-3031	Securities, Commodities, & Financial Services Sales Agents	993	1,120	127	12.79	1.21	27	73	13	113	\$65,670	Bachelor's degree	None	Moderate-term OJT training		
41-3041	Travel Agents	368	340	-28	-7.61	-0.79	21	26	-3	44	\$57,790	HS diploma or equivalent	None	Moderate-term OJT training		
41-3099	Sales Representatives, Services, All Other	3,751	4,254	503	13.41	1.27	118	389	50	557	\$70,363	HS diploma or equivalent	None	Moderate-term OJT training		

Table 2: DISTRICT OF COLUMBIA LONG-TERM OCCUPATIONAL PROJECTIONS, SEPARATIONS, OPENINGS, AND WORKER CHARACTERISTICS, 2018 - 2028*

Soccode	Occupational Title	Employment Projections					Occupational Separations, 2018-2028, annual average					Total 2018-2028	Median Annual Wage**	Typical Education Needed for Entry	Worker Characteristics	
		Employment		Change 2018-2028		Growth Rate	Labor Force			Openings	Work Experience in a related Occupation				Typical on-the-job training needed to attain competency	
		2018	2028	Numeric	Percent		Exits	Transfers	Change							
41-4000	Sales Representatives, Wholesale & Manufacturing	1,988	2,236	248	12.47	1.18	64	157	25	246						
41-4011	Sales Representatives, Wholesale & Manufacturing, Technical & Scientific	513	592	79	15.40	1.44	17	41	8	66	\$83,541	Bachelor's degree	None	Moderate-term OJT training		
41-4012	Sales Representatives, Wholesale & Manufacturing, Except Technical & Scientific	1,475	1,644	169	11.46	1.09	47	116	17	180	\$73,375	HS diploma or equivalent	None	Moderate-term OJT training		
41-9000	Other Sales & Related Workers	2,689	3,031	342	12.72	1.20	119	179	34	332						
41-9021	Real Estate Brokers	221	246	25	11.31	1.08	11	12	2	25	\$53,967	HS diploma or equivalent	Less than 5 years	None		
41-9022	Real Estate Sales Agents	1,581	1,733	152	9.61	0.92	75	83	15	173	\$49,091	HS diploma or equivalent	None	Moderate-term OJT training		
41-9031	Sales Engineers	538	692	154	28.62	2.55	14	53	15	82	\$125,107	Bachelor's degree	None	Moderate-term OJT training		
41-9041	Telemarketers	114	97	-17	-14.90	-1.60	5	12	-2	15	\$28,084	No formal educational c	None	Short-term OJT training		
41-9099	Sales & Related Workers, All Other	169	188	19	11.24	1.07	8	16	2	26	\$59,899	HS diploma or equivalent	None	None		
43-0000	Office & Administrative Support Occupations	81,862	81,413	-449	-0.55	-0.06	4,062	5,499	-45	9,516	\$51,692					
43-1000	Supervisors of Office & Administrative Support Workers	5,162	5,320	158	3.06	0.30	196	352	16	564						
43-1011	First-Line Supervisors of Office & Administrative Support Workers	5,162	5,320	158	3.06	0.30	196	352	16	564	\$77,178	HS diploma or equivalent	Less than 5 years	None		
43-2000	Communications Equipment Operators	350	285	-65	-18.60	-2.03	18	22	-6	34						
43-2011	Switchboard Operators, Including Answering Service	297	243	-54	-18.20	-1.99	16	18	-5	29	\$43,719	HS diploma or equivalent	None	Short-term OJT training		
43-2021	Telephone Operators	50	39	-11	-22.00	-2.45	2	4	-1	5	\$45,117	HS diploma or equivalent	None	Short-term OJT training		
43-3000	Financial Clerks	6,212	6,409	197	3.17	0.31	343	380	20	743						
43-3011	Bill & Account Collectors	302	306	4	1.32	0.13	12	24	0	36	\$62,986	HS diploma or equivalent	None	Moderate-term OJT training		
43-3021	Billing & Posting Clerks	945	1,082	137	14.50	1.36	42	68	14	124	\$66,619	HS diploma or equivalent	None	Moderate-term OJT training		
43-3031	Bookkeeping, Accounting, & Auditing Clerks	4,197	4,247	50	1.19	0.12	257	235	5	497	\$56,574	Some college, no degree	None	Moderate-term OJT training		
43-3041	Gaming Cage Workers	60	70	10	16.67	1.55	3	6	1	10	\$27,799	HS diploma or equivalent	None	Short-term OJT training		
43-3051	Payroll & Timekeeping Clerks	374	375	1	0.27	0.03	18	24	0	42	\$64,949	HS diploma or equivalent	None	Moderate-term OJT training		
43-3061	Procurement Clerks	295	284	-11	-3.73	-0.38	10	20	-1	29	\$56,793	HS diploma or equivalent	None	Moderate-term OJT training		
43-3099	Financial Clerks, All Other	30	34	4	13.33	1.26	1	2	0	3	\$62,350	HS diploma or equivalent	None	Short-term OJT training		
43-4000	Information & Record Clerks	19,069	19,452	383	2.01	0.20	971	1,534	38	2,543						
43-4011	Brokerage Clerks	132	150	18	13.64	1.29	7	8	2	17	\$54,210	HS diploma or equivalent	None	Moderate-term OJT training		
43-4051	Customer Service Representatives	7,139	7,146	7	0.10	0.01	343	609	1	953	\$44,699	HS diploma or equivalent	None	Short-term OJT training		
43-4061	Eligibility Interviewers, Government Programs	586	597	11	1.88	0.19	23	33	1	57	\$61,442	HS diploma or equivalent	None	Moderate-term OJT training		
43-4071	File Clerks	534	497	-37	-6.93	-0.72	30	34	-4	60	\$45,323	HS diploma or equivalent	None	Short-term OJT training		
43-4081	Hotel, Motel, & Resort Desk Clerks	1,421	1,537	116	8.16	0.79	81	169	12	262	\$35,219	HS diploma or equivalent	None	Short-term OJT training		
43-4111	Interviewers, Except Eligibility & Loan	423	447	24	5.67	0.55	22	32	2	56	\$46,311	HS diploma or equivalent	None	Short-term OJT training		
43-4121	Library Assistants, Clerical	103	111	8	7.77	0.75	8	8	1	17	\$48,913	HS diploma or equivalent	None	Short-term OJT training		
43-4151	Order Clerks	67	67	0	0.00	0.00	3	5	0	8	\$36,134	Some college, no degree	None	Short-term OJT training		
43-4161	Human Resources Assistants, Except Payroll & Timekeeping	817	796	-21	-2.57	-0.26	30	62	-2	90	\$54,730	Associate's degree	None	None		
43-4171	Receptionists & Information Clerks	4,097	4,314	217	5.30	0.52	245	320	22	587	\$37,384	HS diploma or equivalent	None	Short-term OJT training		
43-4181	Reservation & Transportation Ticket Agents & Travel Clerks	318	356	38	11.95	1.14	14	24	4	42	\$48,264	HS diploma or equivalent	None	Short-term OJT training		
43-4199	Information & Record Clerks, All Other	3,354	3,351	-3	-0.09	-0.01	162	225	0	387	\$59,428	HS diploma or equivalent	None	Short-term OJT training		
43-5000	Material Recording, Scheduling, Dispatching, & Distributing Workers	7,891	8,112	221	2.80	0.28	340	534	22	896						
43-5011	Cargo & Freight Agents	31	34	3	9.68	0.93	1	2	0	3	\$52,407	HS diploma or equivalent	None	Short-term OJT training		
43-5021	Couriers & Messengers	483	539	56	11.59	1.10	20	29	6	55	\$32,246	HS diploma or equivalent	None	Short-term OJT training		
43-5031	Police, Fire, & Ambulance Dispatchers	61	66	5	8.20	0.79	2	4	0	6	\$51,264	HS diploma or equivalent	None	Moderate-term OJT training		
43-5032	Dispatchers, Except Police, Fire, & Ambulance	1,139	1,130	-9	-0.79	-0.08	40	68	-1	107	\$50,057	HS diploma or equivalent	None	Moderate-term OJT training		
43-5051	Postal Service Clerks	137	123	-14	-10.20	-1.07	5	4	-1	8	\$61,144	HS diploma or equivalent	None	Short-term OJT training		
43-5052	Postal Service Mail Carriers	873	785	-88	-10.10	-1.06	30	31	-9	52	\$62,485	HS diploma or equivalent	None	Short-term OJT training		
43-5053	Postal Service Mail Sorters, Processors, & Processing Machine Operator	535	458	-77	-14.40	-1.54	23	18	-8	33	\$59,790	HS diploma or equivalent	None	Short-term OJT training		
43-5061	Production, Planning, & Expediting Clerks	911	1,032	121	13.28	1.25	32	69	12	113	\$59,341	HS diploma or equivalent	None	Moderate-term OJT training		
43-5071	Shipping, Receiving, & Traffic Clerks	438	430	-8	-1.83	-0.18	14	29	-1	42	\$52,802	HS diploma or equivalent	None	Short-term OJT training		
43-5081	Stock Clerks & Order Fillers	3,273	3,505	232	7.09	0.69	172	280	23	475	\$31,640	HS diploma or equivalent	None	Short-term OJT training		
43-6000	Secretaries & Administrative Assistants	26,137	24,368	-1,769	-6.77	-0.70	1,294	1,532	-177	2,649						
43-6011	Executive Secretaries & Executive Administrative Assistants	5,909	4,964	-945	-16.00	-1.73	279	330	-94	515	\$72,740	HS diploma or equivalent	Less than 5 years	None		
43-6012	Legal Secretaries	3,634	3,235	-399	-11.00	-1.16	176	208	-40	344	\$94,035	HS diploma or equivalent	None	Moderate-term OJT training		
43-6013	Medical Secretaries	1,338	1,503	165	12.33	1.17	73	86	16	175	\$46,913	HS diploma or equivalent	None	Moderate-term OJT training		

Table 2: DISTRICT OF COLUMBIA LONG-TERM OCCUPATIONAL PROJECTIONS, SEPARATIONS, OPENINGS, AND WORKER CHARACTERISTICS, 2018 - 2028*

Soccode	Occupational Title	Employment Projections								Occupational Separations, 2018-2028, annual average			Total	Median Annual Wage**	Typical Education Needed for Entry	Worker Characteristics	
		Employment		Change 2018-2028		Growth Rate	Labor Force		Openings	Work Experience in a related Occupation	Typical on-the-job training needed to attain competency						
		2018	2028	Numeric	Percent		Exits	Transfers				Change					
43-6014	Secretaries & Administrative Assistants, Except Legal, Medical, & Executive	15,256	14,666	-590	-3.87	-0.39	767	908	-59	1,616	\$50,375	HS diploma or equivalent	None	Short-term OJT training			
43-9000	Other Office & Administrative Support Workers	17,041	17,467	426	2.50	0.25	900	1,144	43	2,087							
43-9011	Computer Operators	111	91	-20	-18.00	-1.97	5	7	-2	10	\$62,427	HS diploma or equivalent	None	Moderate-term OJT training			
43-9021	Data Entry Keyers	390	313	-77	-19.70	-2.18	16	25	-8	33	\$43,269	HS diploma or equivalent	None	Short-term OJT training			
43-9022	Word Processors & Typists	297	193	-104	-35.00	-4.22	15	15	-10	20	\$51,976	HS diploma or equivalent	None	Short-term OJT training			
43-9031	Desktop Publishers	213	186	-27	-12.70	-1.35	8	15	-3	20	\$85,470	Associate's degree	None	Short-term OJT training			
43-9041	Insurance Claims & Policy Processing Clerks	306	342	36	11.76	1.12	12	20	4	36	\$57,962	HS diploma or equivalent	None	Moderate-term OJT training			
43-9051	Mail Clerks & Mail Machine Operators, Except Postal Service	956	1,008	52	5.44	0.53	47	62	5	114	\$48,993	HS diploma or equivalent	None	Short-term OJT training			
43-9061	Office Clerks, General	11,063	11,452	389	3.52	0.35	629	718	39	1,386	\$44,089	HS diploma or equivalent	None	Short-term OJT training			
43-9071	Office Machine Operators, Except Computer	342	328	-14	-4.09	-0.42	20	22	-1	41	\$47,995	HS diploma or equivalent	None	Short-term OJT training			
43-9081	Proofreaders & Copy Markers	77	85	8	10.39	0.99	5	6	1	12	\$51,206	Bachelor's degree	None	None			
43-9111	Statistical Assistants	395	467	72	18.23	1.69	18	36	7	61	\$55,593	Bachelor's degree	None	None			
43-9199	Office & Administrative Support Workers, All Other	2,891	3,002	111	3.84	0.38	124	219	11	354	\$44,018	HS diploma or equivalent	None	Short-term OJT training			
45-0000	Farming, Fishing, & Forestry Occupations	653	669	16	2.45	0.24	25	81	2	108	\$45,134						
45-1000	Supervisors of Farming, Fishing, & Forestry Workers	131	145	14	10.69	1.02	5	15	1	21							
45-1011	First-Line Supervisors of Farming, Fishing, & Forestry Workers	131	145	14	10.69	1.02	5	15	1	21	\$47,102	HS diploma or equivalent	Less than 5 years	None			
45-2000	Agricultural Workers	375	387	12	3.20	0.32	15	47	1	63							
45-2092	Farmworkers & Laborers, Crop, Nursery, & Greenhouse	81	82	1	1.23	0.12	3	10	0	13	\$40,624	No formal educational c	None	Short-term OJT training			
45-2093	Farmworkers, Farm, Ranch, & Aquacultural Animals	108	101	-7	-6.48	-0.67	4	13	-1	16	\$60,233	No formal educational c	None	Short-term OJT training			
45-2099	Agricultural Workers, All Other	184	202	18	9.78	0.94	8	24	2	34		No formal educational c	None	Short-term OJT training			
45-4000	Forest, Conservation, & Logging Workers	147	137	-10	-6.80	-0.70	5	18	-1	22							
45-4011	Forest & Conservation Workers	58	57	-1	-1.72	-0.17	2	8	0	10	\$33,485	HS diploma or equivalent	None	Moderate-term OJT training			
45-4022	Logging Equipment Operators	76	69	-7	-9.21	-0.96	3	9	-1	11		HS diploma or equivalent	None	Moderate-term OJT training			
47-0000	Construction & Extraction Occupations	15,179	17,103	1,924	12.68	1.20	522	1,277	192	1,991	\$55,258						
47-1000	Supervisors of Construction & Extraction Workers	1,122	1,265	143	12.75	1.21	36	88	14	138							
47-1011	First-Line Supervisors of Construction Trades & Extraction Workers	1,122	1,265	143	12.75	1.21	36	88	14	138	\$80,382	HS diploma or equivalent	5 years or more	None			
47-2000	Construction Trades Workers	12,339	13,890	1,551	12.57	1.19	417	1,019	155	1,591							
47-2021	Brickmasons & Blockmasons	255	282	27	10.59	1.01	8	19	3	30	\$65,592	HS diploma or equivalent	None	Apprenticeship			
47-2022	Stonemasons	40	45	5	12.50	1.18	1	3	0	4	\$60,118	HS diploma or equivalent	None	Apprenticeship			
47-2031	Carpenters	2,379	2,645	266	11.18	1.07	79	181	27	287	\$54,819	HS diploma or equivalent	None	Apprenticeship			
47-2044	Tile & Marble Setters	46	56	10	21.74	1.99	2	4	1	7	\$35,636	No formal educational c	None	Long-term OJT training			
47-2051	Cement Masons & Concrete Finishers	526	597	71	13.50	1.27	16	42	7	65	\$50,885	No formal educational c	None	Moderate-term OJT training			
47-2061	Construction Laborers	4,291	4,854	563	13.12	1.24	153	356	56	565	\$40,484	No formal educational c	None	Short-term OJT training			
47-2071	Paving, Surfacing, & Tamping Equipment Operators	131	146	15	11.45	1.09	6	11	2	19	\$51,309	HS diploma or equivalent	None	Moderate-term OJT training			
47-2073	Operating Engineers & Other Construction Equipment Operators	487	546	59	12.11	1.15	18	42	6	66	\$62,477	HS diploma or equivalent	None	Moderate-term OJT training			
47-2081	Drywall & Ceiling Tile Installers	80	84	4	5.00	0.49	2	6	0	8	\$49,900	No formal educational c	None	Moderate-term OJT training			
47-2111	Electricians	1,383	1,561	178	12.87	1.22	45	125	18	188	\$80,822	HS diploma or equivalent	None	Apprenticeship			
47-2121	Glaziers	400	459	59	14.75	1.39	14	35	6	55	\$50,759	HS diploma or equivalent	None	Apprenticeship			
47-2131	Insulation Workers, Floor, Ceiling, & Wall	87	98	11	12.64	1.20	2	8	1	11	\$70,478	No formal educational c	None	Short-term OJT training			
47-2132	Insulation Workers, Mechanical	45	49	4	8.89	0.86	1	4	0	5	\$52,829	HS diploma or equivalent	None	Apprenticeship			
47-2141	Painters, Construction & Maintenance	594	641	47	7.91	0.76	21	41	5	67	\$57,647	No formal educational c	None	Moderate-term OJT training			
47-2151	Pipelayers	43	51	8	18.60	1.72	1	4	1	6	\$45,711	No formal educational c	None	Short-term OJT training			
47-2152	Plumbers, Pipefitters, & Steamfitters	1,083	1,246	163	15.05	1.41	34	95	16	145	\$71,975	HS diploma or equivalent	None	Apprenticeship			
47-2161	Plasterers & Stucco Masons	67	72	5	7.46	0.72	2	5	0	7	\$54,671	No formal educational c	None	Long-term OJT training			
47-2171	Reinforcing Iron & Rebar Workers	115	132	17	14.78	1.39	3	12	2	17	\$47,743	HS diploma or equivalent	None	Apprenticeship			
47-2181	Roofers	56	63	7	12.50	1.18	2	5	1	8	\$40,164	No formal educational c	None	Moderate-term OJT training			
47-2211	Sheet Metal Workers	42	44	2	4.76	0.47	1	3	0	4	\$60,626	HS diploma or equivalent	None	Apprenticeship			
47-2221	Structural Iron & Steel Workers	147	169	22	14.97	1.40	4	14	2	20	\$59,687	HS diploma or equivalent	None	Apprenticeship			
47-3000	Helpers, Construction Trades	1,082	1,256	174	16.08	1.50	39	119	17	175							
47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, & Tile & Marble Setters	70	80	10	14.29	1.34	2	8	1	11	\$37,714	No formal educational c	None	Short-term OJT training			
47-3012	Helpers--Carpenters	112	128	16	14.29	1.34	4	12	2	18	\$39,890	No formal educational c	None	Short-term OJT training			

Table 2: DISTRICT OF COLUMBIA LONG-TERM OCCUPATIONAL PROJECTIONS, SEPARATIONS, OPENINGS, AND WORKER CHARACTERISTICS, 2018 - 2028*

Soccode	Occupational Title	Employment Projections					Occupational Separations, 2018-2028, annual average					Total	Median	Typical Education Needed for Entry	Worker Characteristics	
		Employment		Change 2018-2028		Growth	Labor Force			Openings	Work Experience in a related Occupation				Typical on-the-job training needed to attain competency	
		2018	2028	Numeric	Percent	Rate	Exits	Transfers	Change	2018-2028						Annual Wage**
47-3013	Helpers--Electricians	151	165	14	9.27	0.89	5	16	1	22	\$40,887	HS diploma or equivalent	None	Short-term OJT training		
47-3015	Helpers--Pipefitters, Plumbers, Pipefitters, & Steamfitters	643	764	121	18.82	1.74	23	72	12	107	\$37,394	HS diploma or equivalent	None	Short-term OJT training		
47-3019	Helpers, Construction Trades, All Other	95	108	13	13.68	1.29	3	10	1	14	\$36,727	No formal educational c	None	Short-term OJT training		
47-4000	Other Construction & Related Workers	627	680	53	8.45	0.81	31	49	5	85						
47-4011	Construction & Building Inspectors	335	356	21	6.27	0.61	19	24	2	45	\$82,893	HS diploma or equivalent	5 years or more	Moderate-term OJT training		
47-4021	Elevator Installers & Repairers	33	35	2	6.06	0.59	1	3	0	4	\$88,995	HS diploma or equivalent	None	Apprenticeship		
47-4041	Hazardous Materials Removal Workers	122	138	16	13.11	1.24	6	11	2	19	\$38,961	HS diploma or equivalent	None	Moderate-term OJT training		
47-4051	Highway Maintenance Workers	32	32	0	0.00	0.00	1	2	0	3	\$65,099	HS diploma or equivalent	None	Moderate-term OJT training		
47-4071	Septic Tank Servicers & Sewer Pipe Cleaners	45	51	6	13.33	1.26	1	4	1	6	\$71,476	HS diploma or equivalent	None	Moderate-term OJT training		
47-4090	Miscellaneous Construction & Related Workers	60	68	8	13.33	1.26	2	6	1	9	\$59,881	HS diploma or equivalent	None	Moderate-term OJT training		
49-0000	Installation, Maintenance, & Repair Occupations	9,939	10,952	1,013	10.19	0.98	345	688	101	1,134	\$61,093					
49-1000	Supervisors of Installation, Maintenance, & Repair Workers	627	674	47	7.50	0.73	20	39	5	64						
49-1011	First-Line Supervisors of Mechanics, Installers, & Repairers	627	674	47	7.50	0.73	20	39	5	64	\$80,886	HS diploma or equivalent	Less than 5 years	None		
49-2000	Electrical & Electronic Equipment Mechanics, Installers, & Repairers	922	958	36	3.90	0.38	23	73	4	100						
49-2011	Computer, Automated Teller, & Office Machine Repairers	88	85	-3	-3.41	-0.35	2	7	0	9	\$38,078	Some college, no degree	None	Short-term OJT training		
49-2022	Telecommunications Equipment Installers & Repairers, Except Line Insta	433	480	47	10.85	1.04	13	38	5	56	\$91,953	Postsecondary non-degr	None	Moderate-term OJT training		
49-2094	Electrical & Electronics Repairers, Commercial & Industrial Equipment	196	194	-2	-1.02	-0.10	3	14	0	17	\$83,550	Postsecondary non-degr	None	Long-term OJT training		
49-2095	Electrical & Electronics Repairers, Powerhouse, Substation, & Relay	143	140	-3	-2.10	-0.21	2	10	0	12	\$94,273	Postsecondary non-degr	Less than 5 years	Moderate-term OJT training		
49-3000	Vehicle & Mobile Equipment Mechanics, Installers, & Repairers	991	1,068	77	7.77	0.75	30	72	8	110						
49-3021	Automotive Body & Related Repairers	85	87	2	2.35	0.23	3	6	0	9	\$41,232	HS diploma or equivalent	None	Long-term OJT training		
49-3023	Automotive Service Technicians & Mechanics	442	449	7	1.58	0.16	12	31	1	44	\$63,432	Postsecondary non-degr	None	Short-term OJT training		
49-3031	Bus & Truck Mechanics & Diesel Engine Specialists	190	205	15	7.89	0.76	6	13	2	21	\$67,896	HS diploma or equivalent	None	Long-term OJT training		
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	80	86	6	7.50	0.73	3	6	1	10	\$60,530	HS diploma or equivalent	None	Long-term OJT training		
49-3091	Bicycle Repairers	168	215	47	27.98	2.50	6	15	5	26	\$32,257	HS diploma or equivalent	None	Moderate-term OJT training		
49-9000	Other Installation, Maintenance, & Repair Occupations	7,399	8,252	853	11.53	1.10	272	503	85	860						
49-9021	Heating, Air Conditioning, & Refrigeration Mechanics & Installers	385	424	39	10.13	0.97	11	28	4	43	\$71,085	Postsecondary non-degr	None	Long-term OJT training		
49-9041	Industrial Machinery Mechanics	154	150	-4	-2.60	-0.26	5	9	0	14	\$70,449	HS diploma or equivalent	None	Long-term OJT training		
49-9043	Maintenance Workers, Machinery	64	76	12	18.75	1.73	3	4	1	8	\$71,050	HS diploma or equivalent	None	Long-term OJT training		
49-9044	Millwrights	43	50	7	16.28	1.52	1	3	1	5	\$46,513	HS diploma or equivalent	None	Apprenticeship		
49-9051	Electrical Power-Line Installers & Repairers	116	116	0	0.00	0.00	3	7	0	10	\$70,867	HS diploma or equivalent	None	Long-term OJT training		
49-9052	Telecommunications Line Installers & Repairers	379	402	23	6.07	0.59	9	34	2	45	\$79,587	HS diploma or equivalent	None	Long-term OJT training		
49-9062	Medical Equipment Repairers	41	41	0	0.00	0.00	2	2	0	4	\$54,045	Associate's degree	None	Moderate-term OJT training		
49-9071	Maintenance & Repair Workers, General	5,423	6,136	713	13.15	1.24	203	358	71	632	\$52,676	HS diploma or equivalent	None	Moderate-term OJT training		
49-9094	Locksmiths & Safe Repairers	39	32	-7	-18.00	-1.96	2	2	-1	3	\$64,739	HS diploma or equivalent	None	Long-term OJT training		
49-9098	Helpers--Installation, Maintenance, & Repair Workers	302	334	32	10.60	1.01	17	24	3	44	\$55,023	HS diploma or equivalent	None	Short-term OJT training		
49-9099	Installation, Maintenance, & Repair Workers, All Other	335	370	35	10.45	1.00	14	24	4	42	\$55,285	HS diploma or equivalent	None	Moderate-term OJT training		
51-0000	Production Occupations	5,408	5,597	189	3.49	0.34	261	401	19	681	\$53,019					
51-1000	Supervisors of Production Workers	211	217	6	2.84	0.28	7	15	1	23						
51-1011	First-Line Supervisors of Production & Operating Workers	211	217	6	2.84	0.28	7	15	1	23	\$85,078	HS diploma or equivalent	Less than 5 years	None		
51-2000	Assemblers & Fabricators	76	79	3	3.95	0.39	3	6	0	9						
51-2098	Assemblers & Fabricators, All Other, Including Team Assemblers	55	57	2	3.64	0.36	2	4	0	6	\$28,781	HS diploma or equivalent	None	Moderate-term OJT training		
51-3000	Food Processing Workers	945	1,043	98	10.37	0.99	53	80	10	143						
51-3011	Bakers	510	578	68	13.33	1.26	32	43	7	82	\$31,806	No formal educational c	None	Long-term OJT training		
51-3021	Butchers & Meat Cutters	139	152	13	9.35	0.90	6	12	1	19	\$46,154	No formal educational c	None	Long-term OJT training		
51-3022	Meat, Poultry, & Fish Cutters & Trimmers	43	47	4	9.30	0.89	2	4	0	6	\$27,668	No formal educational c	None	Short-term OJT training		
51-3092	Food Batchmakers	171	183	12	7.02	0.68	11	16	1	28	\$32,312	HS diploma or equivalent	None	Moderate-term OJT training		
51-3099	Food Processing Workers, All Other	82	83	1	1.22	0.12	3	6	0	9	\$27,665	No formal educational c	None	Moderate-term OJT training		
51-4000	Metal Workers & Plastic Workers	107	110	3	2.80	0.28	3	8	0	11						
51-4041	Machinists	41	40	-1	-2.44	-0.25	1	3	0	4	\$61,257	HS diploma or equivalent	None	Long-term OJT training		
51-4121	Welders, Cutters, Solderers, & Brazers	41	46	5	12.20	1.16	1	4	0	5	\$61,857	HS diploma or equivalent	None	Moderate-term OJT training		
51-5100	Printing Workers	1,315	1,305	-10	-0.76	-0.08	58	97	-1	154						

Table 2: DISTRICT OF COLUMBIA LONG-TERM OCCUPATIONAL PROJECTIONS, SEPARATIONS, OPENINGS, AND WORKER CHARACTERISTICS, 2018 - 2028*

Soccode	Occupational Title	Employment Projections										Occupational Separations,			Worker Characteristics		
		2018-2028					2018-2028, annual average					Total	2018-2028		Work Experience	Typical on-the-job	
		Employment	Change	Rate	Rate	Growth	Labor Force	Transfers	Change	Openings	Median	Typical Education	in a related	Typical on-the-job			
2018	2028	Numeric	Percent	Rate	Exits				2018-2028	Annual Wage**	Needed for Entry	Occupation	training needed to				
51-5111	Prepress Technicians & Workers	308	300	-8	-2.60	-0.26	11	26	-1	36	\$83,032	Postsecondary non-degr	None	None			
51-5112	Printing Press Operators	690	697	7	1.01	0.10	26	48	1	75	\$80,786	HS diploma or equivalent	None	Moderate-term OJT training			
51-5113	Print Binding & Finishing Workers	317	308	-9	-2.84	-0.29	21	23	-1	43	\$82,187	HS diploma or equivalent	None	Moderate-term OJT training			
51-6000	Textile, Apparel, & Furnishings Workers	1,156	1,157	1	0.09	0.01	81	71	0	152							
51-6011	Laundry & Dry-Cleaning Workers	499	527	28	5.61	0.55	32	36	3	71	\$39,465	No formal educational c	None	Short-term OJT training			
51-6021	Pressers, Textile, Garment, & Related Materials	95	79	-16	-16.80	-1.83	5	5	-2	8	\$27,661	No formal educational c	None	Short-term OJT training			
51-6031	Sewing Machine Operators	31	30	-1	-3.23	-0.33	2	2	0	4	\$36,716	No formal educational c	None	Short-term OJT training			
51-6052	Tailors, Dressmakers, & Custom Sewers	477	466	-11	-2.31	-0.23	39	24	-1	62	\$47,191	No formal educational c	None	Moderate-term OJT training			
51-7000	Woodworkers	59	62	3	5.08	0.50	3	4	0	7							
51-7011	Cabinetmakers & Bench Carpenters	47	49	2	4.26	0.42	2	3	0	5	\$48,126	HS diploma or equivalent	None	Moderate-term OJT training			
51-8000	Plant & System Operators	1,097	1,178	81	7.38	0.71	35	84	8	127							
51-8021	Stationary Engineers & Boiler Operators	784	875	91	11.61	1.10	27	61	9	97	\$81,995	HS diploma or equivalent	None	Long-term OJT training			
51-8031	Water & Wastewater Treatment Plant & System Operators	135	127	-8	-5.93	-0.61	4	8	-1	11	\$74,521	HS diploma or equivalent	None	Long-term OJT training			
51-8099	Plant & System Operators, All Other	169	167	-2	-1.18	-0.12	4	15	0	19	\$69,980	HS diploma or equivalent	None	Moderate-term OJT training			
51-9000	Other Production Occupations	442	446	4	0.90	0.09	18	36	0	54							
51-9061	Inspectors, Testers, Sorters, Samplers, & Weighers	76	63	-13	-17.10	-1.86	3	6	-1	8	\$58,828	HS diploma or equivalent	None	Moderate-term OJT training			
51-9081	Dental Laboratory Technicians	44	46	2	4.55	0.45	2	4	0	6	\$61,325	HS diploma or equivalent	None	Moderate-term OJT training			
51-9111	Packaging & Filling Machine Operators & Tenders	50	50	0	0.00	0.00	2	4	0	6	\$31,337	HS diploma or equivalent	None	Moderate-term OJT training			
51-9199	Production Workers, All Other	139	148	9	6.47	0.63	5	11	1	17	\$52,879	HS diploma or equivalent	None	Moderate-term OJT training			
53-0000	Transportation & Material Moving Occupations	17,815	19,031	1,216	6.83	0.66	994	1,355	122	2,471	\$41,770						
53-1000	Supervisors of Transportation & Material Moving Workers	877	985	108	12.31	1.17	30	70	11	111							
53-1048	First-Line Supervisors of Transportation & Material Moving Workers, Exc	874	982	108	12.36	1.17	30	70	11	111	\$63,143	HS diploma or equivalent	Less than 5 years	None			
53-2000	Air Transportation Workers	949	947	-2	-0.21	-0.02	23	66	0	89							
53-2021	Air Traffic Controllers	910	906	-4	-0.44	-0.04	21	63	0	84	\$25,078	Associate's degree	None	Long-term OJT training			
53-3000	Motor Vehicle Operators	7,913	8,763	850	10.74	1.03	525	496	85	1,106							
53-3021	Bus Drivers, Transit & Intercity	1,179	1,335	156	13.23	1.25	98	61	16	175	\$39,453	HS diploma or equivalent	None	Moderate-term OJT training			
53-3022	Bus Drivers, School or Special Client	2,228	2,478	250	11.22	1.07	183	114	25	322	\$46,490	HS diploma or equivalent	None	Short-term OJT training			
53-3031	Driver/Sales Workers	418	439	21	5.02	0.49	18	31	2	51	\$29,853	HS diploma or equivalent	None	Short-term OJT training			
53-3032	Heavy & Tractor-Trailer Truck Drivers	628	666	38	6.05	0.59	27	47	4	78	\$55,567	Postsecondary non-degr	None	Short-term OJT training			
53-3033	Light Truck or Delivery Services Drivers	1,842	2,079	237	12.87	1.22	81	142	24	247	\$36,204	HS diploma or equivalent	None	Short-term OJT training			
53-3041	Taxi Drivers & Chauffeurs	996	1,143	147	14.76	1.39	57	58	15	130	\$37,425	No formal educational c	None	Short-term OJT training			
53-3099	Motor Vehicle Operators, All Other	619	620	1	0.16	0.02	63	41	0	104	\$56,942	No formal educational c	None	Short-term OJT training			
53-6000	Other Transportation Workers	4,697	4,685	-12	-0.26	-0.03	253	404	-1	656							
53-6021	Parking Lot Attendants	2,906	2,845	-61	-2.10	-0.21	148	292	-6	434	\$28,369	No formal educational c	None	Short-term OJT training			
53-6031	Automotive & Watercraft Service Attendants	52	58	6	11.54	1.10	2	6	1	9	\$28,274	No formal educational c	None	Short-term OJT training			
53-6041	Traffic Technicians	130	130	0	0.00	0.00	4	9	0	13	\$58,991	HS diploma or equivalent	None	Moderate-term OJT training			
53-6051	Transportation Inspectors	230	228	-2	-0.87	-0.09	7	16	0	23	\$110,992	HS diploma or equivalent	None	Moderate-term OJT training			
53-6061	Transportation Attendants, Except Flight Attendants	949	997	48	5.06	0.49	76	52	5	133	\$42,055	HS diploma or equivalent	None	Short-term OJT training			
53-6099	Transportation Workers, All Other	430	427	-3	-0.70	-0.07	15	30	0	45	\$40,178	HS diploma or equivalent	None	Short-term OJT training			
53-7000	Material Moving Workers	3,346	3,617	271	8.10	0.78	163	316	27	506							
53-7021	Crane & Tower Operators	39	42	3	7.69	0.74	1	3	0	4	\$34,349	HS diploma or equivalent	Less than 5 years	Moderate-term OJT training			
53-7032	Excavating & Loading Machine & Dragline Operators	65	73	8	12.31	1.17	2	6	1	9	\$55,825	HS diploma or equivalent	Less than 5 years	Moderate-term OJT training			
53-7051	Industrial Truck & Tractor Operators	120	130	10	8.33	0.80	4	10	1	15	\$55,427	No formal educational c	None	Short-term OJT training			
53-7061	Cleaners of Vehicles & Equipment	230	257	27	11.74	1.12	12	23	3	38	\$44,154	No formal educational c	None	Short-term OJT training			
53-7062	Laborers & Freight, Stock, & Material Movers, Hand Manually	2,115	2,328	213	10.07	0.96	100	208	21	329	\$44,974	No formal educational c	None	Short-term OJT training			
53-7064	Packers & Packagers, Hand	117	102	-15	-12.80	-1.36	7	9	-2	14	\$30,021	No formal educational c	None	Short-term OJT training			
53-7081	Refuse & Recyclable Material Collectors	658	683	25	3.80	0.37	36	56	2	94	\$50,615	No formal educational c	None	Short-term OJT training			

Notes: *District of Columbia Long-Term Industry and Occupational Projections, 2018 - 2028

**Bureau of Labor Statistics, Occupational Employment Statistics (OES), May 2018 OES survey

N/A - not available

Projections developed by Dr. John N. Kangethe, Department of Employment Services, Office of Economic Research, Performance & Data Analytics