

District of Columbia

Industry and Occupational Projections 2008 – 2018

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DEPARTMENT OF EMPLOYMENT SERVICES • OFFICE OF LABOR MARKET RESEARCH & INFORMATION



District of Columbia Industry and Occupational Projections, 2008 – 2018

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Introduction

This report was prepared in accordance with the U.S. Department of Labor, Employment and Training Administration (ETA), Program Year 2010 Workforce Information Grant to aid District of Columbia policy makers, the Workforce Investment Council, and Workforce Development program managers in the development and administration of workforce development programs. The Office of Labor Market Research and Information (OLMRI) produces two different sets of projections: Short-term projections are developed each year and are on a two-year horizon. Long-term projections cover a 10-year period and are developed every other year. The District of Columbia industry and occupational projections, 2008 – 2018, are long-term projections that use 2008 as the base year and 2018 as the projected year. The District is projected to add 82,858 more jobs by 2018, for an average annual growth rate of 1.0 percent or 10.0 percent for the 10-year period. This growth rate is slightly higher than the 8.5 and 8.7 percent gains for the 2006-2016 and 2004-2014, respectively. All broad services producing industry sectors and major occupational groups are projected to add jobs between 2008 and 2018.

The industry employment structure in the District of Columbia in 2018 is expected to remain primarily service-based, similar to that of 2008, with almost entirely all the employment gains expected to be generated in service-producing industries over the projected 10-year period. Despite a slow job growth as a whole, most job openings will result from current workers leaving their occupations. The District is projected to create over 264,000 job openings over the decade: new job openings due to growth will account for 33 percent, and the need to replace current workers who leave their occupations or replacement openings will account for 67 percent of the total openings.

In 2008, over 55 percent of the jobs in the District were in occupations that required at least a post-secondary award or a degree; and it is projected that occupations in such categories will account for almost 56 percent of all new job openings from 2008 to 2018. Medium-wage career clusters accounted for 78.5 percent of employment in 2008 and are projected to account for 72.7 percent of job growth between 2008 and 2018.

Methodology and Assumptions

The process of developing employment projections depends on two main ingredients: industry employment and occupation employment within each industry (staffing patterns). OLMRI use a three step process to develop the projections:

1. Development of industry historical employment trends (time series) and industry projections
2. Development of industry/occupational (I/O) employment within each industry (staffing patterns)
3. Development of occupational employment projections

Industry Projections

The primary source for the historic industry employment is the U.S. Bureau of Labor Statistics (BLS) Quarterly Census of Employment and Wages (QCEW) from the District of Columbia Unemployment Insurance (UI) program and Current Employment Statistics (CES) program, a survey of non-farm employment in the District. Time series of QCEW annual average employment from 1990 to 2008 are developed at the 4-digit North American Classification Industry System (NAICS) for detailed industries; and the benchmarked CES seasonally adjusted data are used as control totals. Although the employment data from the UI program covers most of the non-farm employment in the District, LMI supplements it with additional employment including self-employed (SE) and unpaid family workers (UFW). Self-employed persons are those who are engaged in economic activities on their own account and at their own risk. Self-employed can be self-employed with employees or without employees, such as own-account workers or freelancers. A person acting in a limited company, who alone or together with his/her family owns at least one half of the company, is counted as self-employed. Unpaid family workers are members of the same household working without actual pay in an enterprise or farm owned by a family member.

The time series is the foundation for developing industry employment projections using the Long-Term Industry Projection System, a PC-based system developed by Projections Management Partnership (PMP) through a grant from ETA. Shift-share method is used to develop the long-term industry projections. The final product is:

- Base year employment
- Projected year employment
- Numeric change (difference between the base and projected year employment)
- Percent change (numeric change expressed as a percent)

The industry projections assume past and present industry trends follow the same path into the future. Projections illustrate what is likely to happen, barring major changes from past trends, and fluctuations in economic activity due to the business cycle. For the 2008 – 2018 projections, the most significant economic event to be considered is the Great Recession that began in the third quarter of 2008 and the increased role of the federal government in the general economy through the American Recovery and Reinvestment Act (ARRA). While the recession took a severe toll on the U.S. non-farm payrolls, it had little effect on the District's non-farm payroll jobs, as the federal government and educational and health services continued churning jobs in the midst of the recession. Thus, little or no adjustments were required to the industry employment series for the District of Columbia.

Industry/Occupational (I/O) Staffing Patterns

With occupational projections, the occupations within industries (staffing patterns) are obtained through the Occupational Employment Statistics (OES) program conducted by LMI using survey data from over 33,000 District of Columbia employers over a three-year period. The survey samples two panels annually, with over 500 establishments each. The OES program uses the Standard Occupational Classification (SOC) definitions to collect the survey data, which covers over 750 occupations. OES survey responses are summarized by industry and matched to NAICS code for the District. The survey data are expanded to the annual average employment for each occupation within each industry. The results are staffing patterns by industries for the base year. The industry projections are a primary data source used to project changes in occupational employment. A forecast of employment level is created for each industry using historical data and current information about the economy. The industry projections include the base year and target year of the projection cycle. The occupational employment projections are developed using MicroMatrix software to develop an industry/occupation (I/O) matrix of industries using NAICS codes and almost 750 occupations using Standard Occupational Classification (SOC) system. The I/O matrix represents the occupational staffing patterns of each 4-digit industry by NAICS.

The I/O matrix reflects each industry's typical or average staffing pattern in terms of the ratio or percentage of occupational employment to total industry employment. The I/O matrix tabulates employment classified by industry and occupation reflecting either employment distribution by occupation or by industry. The matrix shows the industries where people work and the jobs they hold.

The MicroMatrix System uses the results of the OES survey to transform projections of industry employment into occupational employment projections. A base year, 2008, I/O matrix was produced using 2008 industry employment for each 4-digit NAICS. A projected, 2018, I/O matrix was produced using the 2018 industry projections and the occupational technology change factors. These change factors are applied to calculate the change of an occupation within an industry.

Annual job openings are divided into two categories: job openings due to growth and job openings due to net replacement needs. Job openings due to growth are created by industry employment expansion. Job openings due to net replacement estimate the need in existing jobs as workers vacate, change jobs, or leave the labor force. Annual average job openings due to growth are calculated at the detail occupation level by dividing the projected employment growth by the projection period, in this case 10. The detail occupation annual average job openings due to growth are summed excluding negative openings to obtain aggregate annual average jobs openings due to growth. Annual average job openings due to net replacement are calculated by using national net replacement rates. The replacement rates provided by the BLS are for two five-year periods. For the 10-year period projections, the rates are summed and multiplied by the occupation's base year employment. The result is divided by 10 for an annual replacement. Growth demand is rarely the main cause of net openings. Growth demand creates the majority of openings only in the fastest growing occupations. Negative growth is shown as zero, so a negative growth demand will not affect the replacement need.

Industry Employment Projections, 2008 – 2018

Summary:

The District of Columbia is projected to have 82,858 more jobs in 2018 than in 2008, for an average annual growth rate of 1.0 percent or 10.0 percent for the 10-year period. The industry employment structure in the District of Columbia in 2018 is expected to remain primarily service-based similar to that of 2008, with almost entirely all the employment gains expected to be generated in service-producing industries over the projected 10-year period.

The District of Columbia non-farm employment is projected to increase by 82,858 from 787,156 to 870,014 between 2008 and 2018, for an average annual growth rate of 1.0 percent, or 10.5 percent for the 10-year period. This growth rate is slightly higher than the 8.5 percent gain between 2006 and 2016 and 8.7 percent gain between 2004 and 2014. The actual growth rate for non-farm employment from January 2004 to December 2010 was 8.3 percent which suggests projection estimates are on par with the actual growth rates. The service-providing industry is projected to generate all the job increases, led by gains in professional and business services, education and health services, and the federal government, which together are expected to contribute 67,776 new jobs or 82 percent of all jobs created in the 10-year projection period. Financial activities, leisure and hospitality, and other services are projected to contribute an additional 12,554 jobs by 2018. No employment decline is projected in any service-providing industry. By contrast, employment in the goods-producing sector will decline by 145 jobs or 1 percent over the 2008-2018 period with the construction sector expected to gain a mere 520 new jobs, which is expected to be offset by 665 job losses in the manufacturing sector. Nevertheless, manufacturing and construction should get an employment boost as occupations in green industries become well defined.

The service-providing sector represents over 98 percent of total non-farm jobs in the District. In 2008, total services-providing employment was 704,466: service-providing private sector employment was almost 70 percent with 593,380 workers; and the federal government alone was over 24 percent, employing 193,776 workers in the District. The private sector employment in the District was concentrated in four major industry sectors which together had a combined employment of 408,578, over half of the total non-farm employment in 2008: professional and business services (21 percent), educational and health services (15 percent), other services except public administration (9 percent), and leisure and hospitality (7 percent).

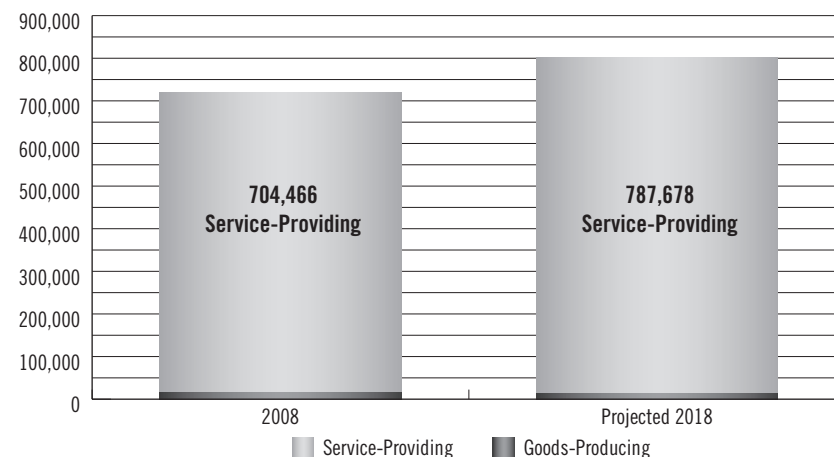
Table 1: District of Columbia Employment by Major Sector, 2008 – 2018*

Industry	Employment		Percent Share		Average Annual Growth Rate	Change, 2008 – 2018	
	2008	2018	2008	2018		Numeric	Percent
Total Employment, All Jobs	787,156	870,014	100.00%	100.00%	1.01%	82,858	10.53%
Total SE & UFW, Primary Job	68,152	67,943	8.66%	7.81%	-0.03%	-209	-0.31%
Construction	12,928	13,448	1.64%	1.55%	0.40%	520	4.02%
Manufacturing	1,610	945	0.20%	0.11%	-5.19%	-665	-41.30%
Trade, Transportation, and Utilities	31,578	32,401	4.01%	3.72%	0.26%	823	2.61%
Information	21,320	21,845	2.71%	2.51%	0.24%	525	2.46%
Financial Activities	29,760	31,629	3.78%	3.64%	0.61%	1,869	6.28%
Professional and Business Services	165,941	203,617	21.08%	23.40%	2.07%	37,676	22.70%
Educational and Health Services	114,996	132,266	14.61%	15.20%	1.41%	17,270	15.02%
Leisure and Hospitality	57,664	62,293	7.33%	7.16%	0.78%	4,629	8.03%
Other Services (Except Government)	69,977	76,033	8.89%	8.74%	0.83%	6,056	8.65%
Total Federal Government Employment	193,776	206,606	24.62%	23.75%	0.64%	12,830	6.62%
State govt., excl. education & hospitals	19,454	20,988	2.47%	2.41%	0.76%	1,534	7.89%

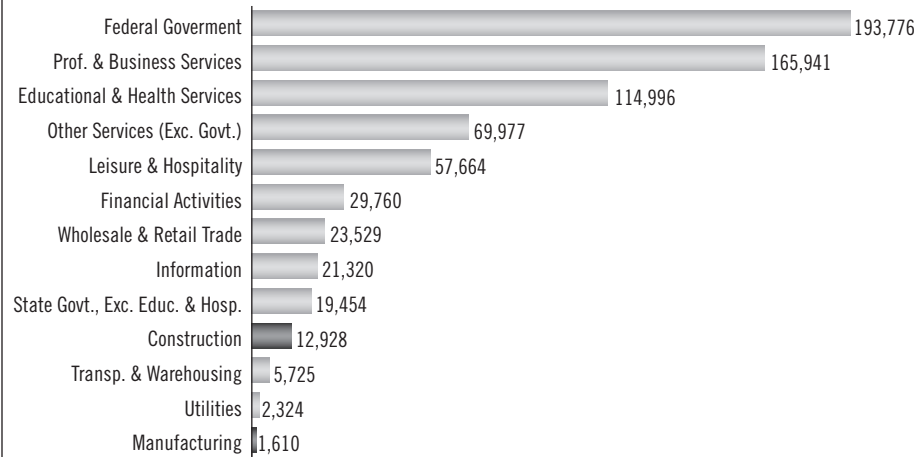
*Note: *District of Columbia 2008-2018 Industry and Occupational Projections*

Source: Department of Employment Services, Office of Labor Market Research and Information

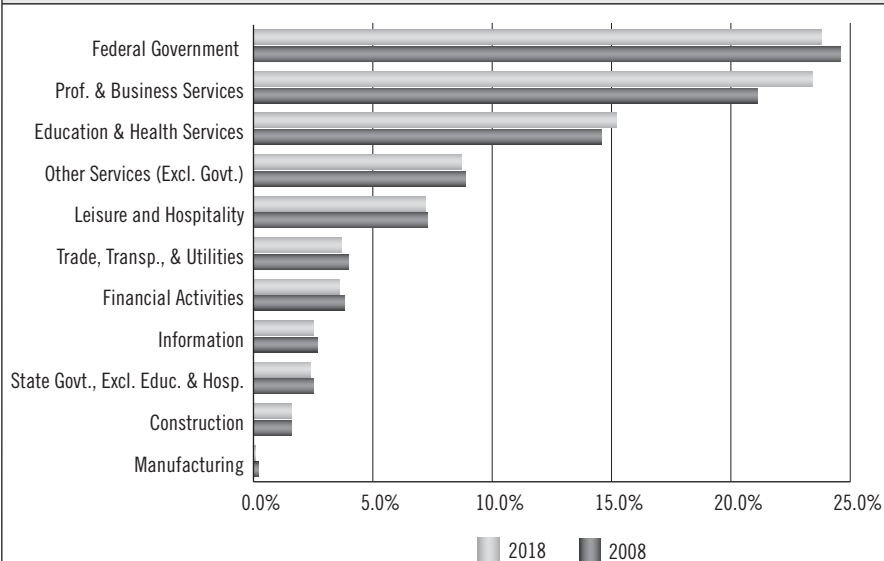
Figure 1: District of Columbia Employment by Service and Goods Producing Sectors, 2008 and Projected 2018



Source: DC Department of Employment Services, Office of Labor Market Research & Information

Figure 2: District of Columbia Employment by Industry Sector, 2008

Source: DC Department of Employment Services, Office of Labor Market Research & Information

Figure 3: District of Columbia Employment by Industry Sector, 2008 and Projected 2018

Source: DC Department of Employment Services, Office of Labor Market Research & Information

Table 2: District of Columbia Employment by Major Industry Sector, 2008 – 2018*

Industry	Employment		Average Annual Growth Rate	Change, 2008 – 2018	
	2008	2018		Numeric	Percent
Total Employment, All Jobs	787,156	870,014	1.0%	82,858	10.5%
Goods-Producing	14,538	14,393	-0.1%	-145	-1.0%
Construction	12,928	13,448	0.4%	520	4.0%
Construction of Buildings	3,896	4,155	0.6%	259	6.6%
Heavy and Civil Engineering Construction	2,158	2,278	0.5%	120	5.6%
Specialty Trade Contractors	6,874	7,015	0.2%	141	2.1%
Manufacturing	1,610	945	-5.2%	-665	-41.3%
Service-Providing	704,466	787,678	1.1%	83,212	11.8%
Utilities	2,324	2,079	-1.1%	-245	-10.5%
Wholesale Trade	5,066	5,434	0.7%	368	7.3%
Retail Trade	18,463	18,709	0.1%	246	1.3%
Transportation and Warehousing	5,725	6,179	0.8%	454	7.9%
Information	21,320	21,845	0.2%	525	2.5%
Financial Activities	29,760	31,629	0.6%	1,869	6.3%
Professional and Business Services	165,941	203,617	2.1%	37,676	22.7%
Educational Services	59,036	67,197	1.3%	8,161	13.8%
Health Care and Social Assistance	55,960	65,069	1.5%	9,109	16.3%
Leisure and Hospitality	57,664	62,293	0.8%	4,629	8.0%
Other Services (Except Government)	69,977	76,033	0.8%	6,056	8.7%
Total Federal Government Employment	193,776	206,606	0.6%	12,830	6.6%
State Government, Excluding Education and Hospitals	19,454	20,988	0.8%	1,534	7.9%
Total Self-Employed and Unpaid Family Workers, Primary Job	68,152	67,943	-0.03%	-209	-0.3%
Self-Employed Workers (SE), Primary Job	67,700	67,486	-0.03%	-214	-0.3%
Unpaid Family Workers (UFW), Primary Job	452	457	0.11%	5	1.1%

Note: *District of Columbia 2008-2018 Industry and Occupational Projections

Source: Department of Employment Services, Office of Labor Market Research and Information

Industry Sector Highlights

Goods-Producing Sectors

The goods-producing sector in the District of Columbia comprises construction and manufacturing industries, and the sector accounted for less than two percent of total employment in 2008. Overall, the goods-producing sector is expected to lose 145 jobs, declining at 0.1 percent average annual rate to drop to 14,393 jobs in 2018. While the construction industry is projected to add 520 jobs, the gains will be largely offset by losses in the manufacturing industry, which is expected to lose 665 jobs over the projection period. Construction is expected to grow at a modest 0.4 percent annually, to reach 13,448 jobs by 2018; growth in construction is expected in building construction, mainly in residential building construction (233 jobs), heavy and civil engineering construction (120 jobs), and specialty trade contractors, mainly in foundation, structure, and building exterior contractors (141 jobs). Manufacturing is the smallest industry sector in the District that accounted for a mere 0.2 percent of the total jobs in 2008. The industry is expected to continue its long-run declining trend and is projected to be among the most rapidly declining industry, decreasing at rate of 5.2 percent annually over the projection period. Nevertheless, both construction and manufacturing could get an employment boost as occupations in green industries become more defined.

Service-Providing Sectors

Government

The public sector is the largest industry sector in the District of Columbia that accounted for over 27 percent of the total 787,156 non-farm payroll employment in 2008. Government employment is projected to grow at 0.7 percent annually, adding 14,364 jobs, and reaching over 228,000 jobs by 2018. The federal government was the single largest non-farm employment sector in the District, making up over 24 percent of total employment and employing 193,776 non-farm payroll jobs in 2008. Federal government employment is projected to grow to 206,600 by 2018, an increase of 12,830 jobs at an annual growth rate of 0.6 percent. The state and local government, which includes Metro transportation, is expected to increase over the projection period by 1,534 jobs, an average annual increase of 0.8 percent, to reach 20,988 by 2018.

Professional and Business Services

Employment in professional and business services sector is projected to reach 203,617 by 2018, an increase of 37,676 jobs. Employment is projected to grow at an annual rate of 2.1 percent or 22.7 percent for the 10-year period. Much of the employment growth in professional and

business services will be in computer systems design and related services, which is projected to have the second fastest and the second largest employment growth of all industries. Employment in the industry is projected to increase by 11,208 jobs, at a 5.0 percent annual growth rate to reach 43,341 jobs by 2018. In 2008, legal services had the most employment in professional and business services, and the sector is expected to increase by 7,720 jobs, at a 2.0 percent annual growth rate to reach 43,341 jobs by 2018. Other industries in professional and business services expected to show significant employment growth include employment services and services to buildings. Employment services is expected to grow by 3,270 jobs at a 1.8 percent annual growth rate to reach 20,444 jobs; and services to buildings is expected to grow by 2,870 at a 1.7 percent annual growth rate to reach 18,623 jobs by 2018.

Occupations with the most employment growth within professional and business services includes security guards, lawyers, and janitors and cleaners, except maids and housekeeping cleaners, which are projected to increase by 2,473 jobs (or 21.7%), 2,426 jobs (or 15.2%), and 2,265 jobs (or 17.0%), respectively (see Table 3).

Educational and Health Services

The educational and health services sector is the second largest private sector in the District accounting for a 14.6 percent industry share of the 787,156 total employment in 2008. The sector is projected to grow by 17,270 jobs (1.4 percent annual growth rate) to reach 132,266 jobs by 2018. The sector is also projected to have seven of the top 10 fastest growing industries by 2018, including educational support services, technical and trade schools, home health care services, other schools and instructions, medical and diagnostic laboratories, outpatient care centers, and offices of physicians. Educational support services industry is projected to add 1,028 jobs, growing at an average annual rate of 4.7 percent; technical and trade schools (+4.2%), home health care services (+3.9%), other schools and instructions (+3.8%), medical and diagnostic laboratories (+3.4%), outpatient care centers (+3.3%), and offices of physicians (+3.0%) and are expected to contribute a combined additional 6,091 jobs in educational and health services over the 10-year projection period.

Within the educational and health services industry, occupations expected to have the most employment growth between 2008 and 2018, include home health aides (+1,472 jobs or 55.5%), registered nurses (+1,062 jobs or 15.3%), and general office clerks projected to increase by 1,472 jobs (55.5 percent), and 644 (14.8 percent) to reach 4,123, 8,012, and 5,002 jobs in 2018, respectively (see Table 5).

Table 3: Occupations with the Most Employment Increase within Professional and Business Services, 2008 and Projected 2018*

		Employment		Change				Employment		Change	
Soc Code	Occupational Title	2008	2018	Numeric	Percent	Soc Code	Occupational Title	2008	2018	Numeric	Percent
33-9032	Security Guards	11,413	13,886	2,473	21.67	43-1011	First-Line Supervisors/Managers of Office and Administrative Support Workers	1,284	1,570	286	22.27
23-1011	Lawyers	15,973	18,399	2,426	15.19	23-2091	Court Reporters	864	1,126	262	30.32
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	13,318	15,583	2,265	17.01	43-3021	Billing and Posting Clerks and Machine Operators	731	967	236	32.28
15-1031	Computer Software Engineers, Applications	2,650	4,433	1,783	67.28	11-3011	Administrative Services Managers	838	1,073	235	28.04
43-6012	Legal Secretaries	7,295	8,903	1,608	22.04	49-9042	Maintenance and Repair Workers, General	888	1,121	233	26.24
23-2011	Paralegals and Legal Assistants	4,634	6,162	1,528	32.97	13-1073	Training and Development Specialists	507	714	207	40.83
15-1071	Network and Computer Systems Administrators	2,451	3,976	1,525	62.22	11-3031	Financial Managers	908	1,114	206	22.69
13-2011	Accountants and Auditors	3,752	5,001	1,249	33.29	11-1011	Chief Executives	1,850	2,028	178	9.62
15-1081	Network Systems and Data Communications Analysts	1,293	2,525	1,232	95.28	13-1072	Compensation, Benefits, and Job Analysis Specialists	557	735	178	31.96
15-1051	Computer Systems Analysts	2,649	3,845	1,196	45.15	11-2031	Public Relations Managers	940	1,111	171	18.19
43-6011	Executive Secretaries and Administrative Assistants	6,095	7,174	1,079	17.7	19-3099	Social Scientists and Related Workers, All Other	353	513	160	45.33
43-9061	Office Clerks, General	4,459	5,359	900	20.18	49-2011	Computer, Automated Teller, and Office Machine Repairers	327	485	158	48.32
15-1041	Computer Support Specialists	2,161	3,060	899	41.6	15-2031	Operations Research Analysts	656	797	141	21.49
13-1111	Management Analysts	3,352	4,231	879	26.22	15-1099	Computer Specialists, All Other	351	479	128	36.47
15-1032	Computer Software Engineers, Systems Software	1,474	2,290	816	55.36	23-2092	Law Clerks	351	477	126	35.9
27-3031	Public Relations Specialists	4,087	4,821	734	17.96	43-9011	Computer Operators	266	390	124	46.62
13-1199	Business Operations Specialists, All Other	3,679	4,333	654	17.78	41-3041	Travel Agents	670	792	122	18.21
11-1021	General and Operations Managers	7,249	7,846	597	8.24	37-2012	Maids and Housekeeping Cleaners	1,081	1,202	121	11.19
19-3021	Market Research Analysts	2,211	2,802	591	26.73	41-4011	Sales Reps, Wholesale and Manufacturing, Technical and Scientific Products	292	397	105	35.96
13-1071	Employment, Recruitment, and Placement Specialists	2,015	2,580	565	28.04	17-2112	Industrial Engineers	219	322	103	47.03
43-4051	Customer Service Representatives	1,744	2,306	562	32.22	35-2021	Food Preparation Workers	410	511	101	24.63
11-3021	Computer and Information Systems Managers	1,323	1,840	517	39.08						
43-4171	Receptionists and Information Clerks	2,670	3,158	488	18.28						
17-1011	Architects, Except Landscape and Naval	2,219	2,616	397	17.89						
13-2051	Financial Analysts	1,109	1,493	384	34.63						
33-3012	Correctional Officers and Jailers	1,079	1,458	379	35.13						
15-1061	Database Administrators	758	1,132	374	49.34						
37-1011	First-Line Supervisors/Managers of Housekeeping and Janitorial Workers	1,867	2,200	333	17.84						
43-3031	Bookkeeping, Accounting, and Auditing Clerks	1,528	1,847	319	20.88						
15-1021	Computer Programmers	2,015	2,325	310	15.38						
17-2061	Computer Hardware Engineers	575	872	297	51.65						
43-6014	Secretaries, Except Legal, Medical, and Executive	3,310	3,598	288	8.7						

Note: *District of Columbia 2008-2018 Industry and Occupational Projections

Source: Department of Employment Services, Office of Labor Market Research and Information

Other Services, Excluding the Public Sector

Other services sector includes religious, grant making, civic, professional and similar organizations, political organizations, and private households, excluding the public sector. Employment is projected to add 6,058 jobs to reach an employment level of 76,033 jobs by 2018, at an annual increase of 0.8 percent. Accounting for over 83 percent, jobs in religious, grants making, and similar organizations are projected to increase by 5,130, representing an average annual growth rate of 0.8 percent to reach 63,413 jobs by 2018. Employment in private households is projected to grow at an average annual rate of 1.2 percent, and adding 612 jobs to reach 5,303 jobs by 2018.

Leisure and Hospitality

The leisure and hospitality sector includes two industries, arts, entertainment, and recreational activities; and accommodation, and food services. Employment is projected to reach 62,293 jobs in 2018, growing at an average annual rate of 0.8 percent. Accommodation and food services industry is expected to gain 3,506 jobs, while arts, entertainment, and recreational activities is expected to grow by 1,123 jobs by 2018. Food services and drinking places within accommodation and food services industry, is expected to contribute to over half the projected job growth in leisure and hospitality. The industry is projected to generate 2,717 jobs, which represents a 0.7 average annual growth rate, resulting in an employment level of 38,308 jobs in 2018.

Financial Activities

This sector includes industries related to finance, insurance, real estate, and renting and leasing services. The sector is expected to add 1,869 over the projection period, growing at a rate of 0.6 percent annually to reach 31,629 in 2018. Over half of the projected job growth in the financial sector will come from real estate, which is projected to add 994 jobs, growing at average annual rate of 0.9 percent.

Soc Code	Occupational Title	Employment		Change	
		2008	2018	Numeric	Percent
31-1011	Home Health Aides	2,651	4,123	1,472	55.53
29-1111	Registered Nurses	6,950	8,012	1,062	15.28
43-9061	Office Clerks, General	4,358	5,002	644	14.78
25-3099	Teachers and Instructors, All Other	4,737	5,285	548	11.57
21-1093	Social and Human Service Assistants	1,609	2,144	535	33.25
25-2021	Elementary School Teachers, Except Special Education	2,759	3,213	454	16.46
43-4171	Receptionists and Information Clerks	3,346	3,758	412	12.31
31-9092	Medical Assistants	1,264	1,644	380	30.06
25-9041	Teacher Assistants	3,442	3,810	368	10.69
31-1012	Nursing Aides, Orderlies, and Attendants	2,574	2,936	362	14.06

Table 4: Occupations with Most Employment Increase within Educational and Health Services, 2008 and Projected 2018* (continued)

Soc Code	Occupational Title	Employment		Change	
		2008	2018	Numeric	Percent
21-1012	Educational, Vocational, and School Counselors	1,627	1,972	345	21.2
43-4051	Customer Service Representatives	979	1,305	326	33.3
25-9031	Instructional Coordinators	1,113	1,424	311	27.94
39-9021	Personal and Home Care Aides	568	877	309	54.4
43-6011	Executive Secretaries and Administrative Assistants	2,338	2,620	282	12.06
25-1011	Business Teachers, Post-secondary	1,384	1,612	228	16.47
25-2011	Preschool Teachers, Except Special Education	1,106	1,319	213	19.26
25-1071	Health Specialties Teachers, Post-secondary	2,845	3,053	208	7.31
11-3011	Administrative Services Managers	1,188	1,381	193	16.25
11-1021	General and Operations Managers	1,979	2,168	189	9.55
29-2061	Licensed Practical and Licensed Vocational Nurses	1,411	1,593	182	12.9
43-1011	1st—Line Supervisors/Managers of Office and Administrative Support Workers	1,140	1,322	182	15.96
25-1121	Art, Drama, and Music Teachers, Post-secondary	796	968	172	21.61
43-6013	Medical Secretaries	937	1,108	171	18.25
13-2011	Accountants and Auditors	809	971	162	20.02
29-2021	Dental Hygienists	434	593	159	36.64
27-3031	Public Relations Specialists	456	605	149	32.68
31-9091	Dental Assistants	416	564	148	35.58
25-2031	Secondary School Teachers, Except Special and Vocational Education	1,551	1,694	143	9.22
29-1062	Family and General Practitioners	427	565	138	32.32
25-1191	Graduate Teaching Assistants	905	1,040	135	14.92
29-2055	Surgical Technologists	569	700	131	23.02
25-1112	Law Teachers, Post-secondary	872	1,002	130	14.91
43-4121	Library Assistants, Clerical	1,128	1,257	129	11.44
11-9111	Medical and Health Services Managers	1,527	1,655	128	8.38
21-1023	Mental Health and Substance Abuse Social Workers	970	1,097	127	13.09
25-1065	Political Science Teachers, Post-secondary	833	959	126	15.13
25-1123	English Language and Literature Teachers, Post-secondary	784	902	118	15.05
21-1021	Child, Family, and School Social Workers	924	1,038	114	12.34
43-3031	Bookkeeping, Accounting, and Auditing Clerks	611	724	113	18.49
25-2022	Middle School Teachers, Except Special and Vocational Education	694	803	109	15.71
29-1067	Surgeons	303	406	103	33.99
25-1072	Nursing Instructors and Teachers, Post-secondary	681	781	100	14.68
49-9042	Maintenance and Repair Workers, General	706	806	100	14.16

Note: *District of Columbia 2008-2018 Industry and Occupational Projections
Source: Department of Employment Services, Office of Labor Market Research and Information

Wholesale & Retail Trade

Employment in wholesale trade is projected to grow by 368 jobs over the projection period, growing at an average annual rate of 0.7 percent, to reach an employment level of 5,434 jobs; while retail trade is projected to add 246 jobs, growing at average annual rate of 0.1 percent, to reach an employment level of 18,709 in 2018. Wholesale electronics markets and agents and brokers industry will account for over forty percent of the projected job growth in wholesale and retail trade sector.

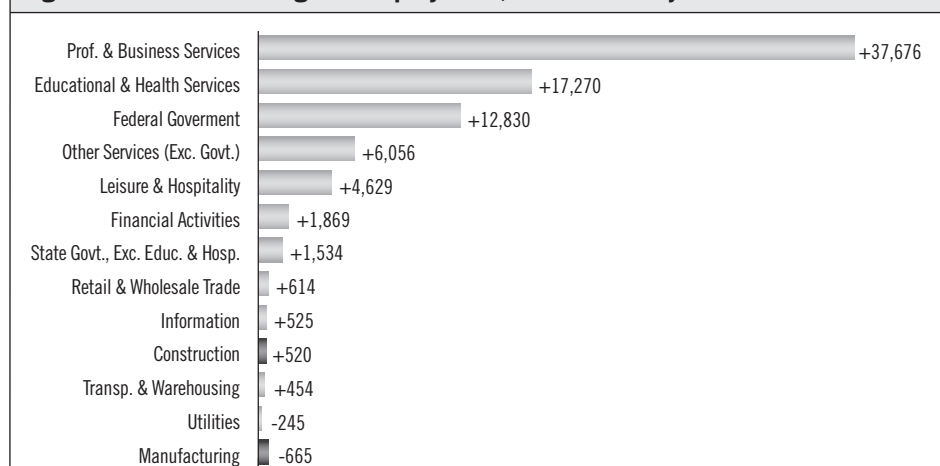
Information

Employment in the information sector is projected to grow by a modest 0.2 percent annually, which is much lower than the projected overall growth rate of total employment. The slow job growth is due largely to two industries within the information sector that are projected to see declining employment: the newspaper, periodical, book, and directory publishers industry is expected to lose 1,259 jobs, while the telecommunications industry is expected to lose 327 jobs over the projection period. Overall, the information sector is projected to add 525 jobs during the projection period, to reach 21,845 jobs in 2018. Nevertheless, internet publishing and broadcasting and internet service providers, web search portals, and data providers are projected to be among the fastest growing industries, growing at 8.3 and 4.3 annual percentage growth, respectively.

Utilities

The only service-providing sector expected to see employment decline over the projection period is utilities. This industry sector is projected to lose 345 jobs, declining at a 1.1 percent average annual rate and dropping to 2,079 jobs in 2018.

Figure 4: Numeric Change in Employment, 2008 and Projected 2018



Source: DC Department of Employment Services, Office of Labor Market Research & Information

Table 5: District of Columbia Employment by Industries, 2008 – 2018*

Industry	Employment		Average Annual Growth Rate	Change, 2008 – 2018	
	2008	2018		Numeric	Percent
TOTAL EMPLOYMENT, ALL JOBS	787,156	870,014	1.01%	82,858	10.53%
Total Private Sector	593,380	663,408		70,028	
Total Federal Government Employment	193,776	206,606	0.64%	12,830	6.62%
Total SE & UFW, Primary Job	68,152	67,943	-0.03%	-209	-0.31%
Self-Employed Workers, Primary Job	67,700	67,486	-0.03%	-214	-0.32%
Unpaid Family Workers, Primary Job	452	457	0.11%	5	1.11%
GOODS-PRODUCING	14,538	14,393	-0.10%	-145	-1.00%
Construction	12,928	13,448	0.40%	520	4.02%
Construction of Buildings	3,896	4,155	0.65%	259	6.65%
Residential Building Construction	1,177	1,410	1.82%	233	19.80%
Nonresidential Building Construction	2,719	2,745	0.10%	26	0.96%
Heavy and Civil Engineering Construction	2,158	2,278	0.54%	120	5.56%
Utility System Construction	544	604	1.05%	60	11.03%
Land Subdivision	278	240	-1.46%	-38	-13.67%
Highway, Street, and Bridge Construction	1,286	1,373	0.66%	87	6.77%
Other Heavy and Civil Engineering Construction	50	61	2.01%	11	22.00%
Specialty Trade Contractors	6,874	7,015	0.20%	141	2.05%
Foundation, Structure, and Building Exterior Contractors	2,269	2,610	1.41%	341	15.03%
Building Equipment Contractors	3,132	2,881	-0.83%	-251	-8.01%
Building Finishing Contractors	1,149	1,136	-0.11%	-13	-1.13%
Other Specialty Trade Contractors	324	388	1.82%	64	19.75%
Manufacturing	1,610	945	-5.19%	-665	-41.30%
SERVICES-PROVIDING	704,466	787,678	1.12%	83,212	11.81%
Trade, Transportation, and Utilities	31,578	32,401	0.26%	823	2.61%
Wholesale Trade	5,066	5,434	0.70%	368	7.26%
Merchant Wholesalers, Durable Goods	1,990	1,969	-0.11%	-21	-1.06%
Merchant Wholesalers, Nondurable Goods	1,815	1,869	0.29%	54	2.98%
Wholesale Electronic Markets and Agents and Brokers	1,261	1,596	2.38%	335	26.57%

Table 5 continued on the next page

Table 5: District of Columbia Employment by Industries, 2008 – 2018* (continued)

Industry	Employment		Average Annual Growth Rate	Change, 2008 – 2018	
	2008	2018		Numeric	Percent
Retail Trade	18,463	18,709	0.13%	246	1.33%
Motor Vehicle and Parts Dealers	282	274	-0.29%	-8	-2.84%
Furniture and Home Furnishings Stores	876	921	0.50%	45	5.14%
Electronics and Appliance Stores	537	466	-1.41%	-71	-13.22%
Building Material and Garden Equipment and Supplies Dealers	721	762	0.55%	41	5.69%
Food and Beverage Stores	5,740	5,687	-0.09%	-53	-0.92%
Health and Personal Care Stores	2,370	2,393	0.10%	23	0.97%
Gasoline Stations	450	410	-0.93%	-40	-8.89%
Clothing and Clothing Accessories Stores	3,343	3,465	0.36%	122	3.65%
Sporting Goods, Hobby, Book, and Music Stores	1,372	1,440	0.48%	68	4.96%
General Merchandise Stores	1,281	1,468	1.37%	187	14.60%
Miscellaneous Store Retailers	1,270	1,255	-0.12%	-15	-1.18%
Nonstore Retailers	221	168	-2.70%	-53	-23.98%
Transportation and Warehousing	5,725	6,179	0.77%	454	7.93%
Air Transportation	**	**	**	**	**
Water Transportation	**	**	**	**	**
Truck Transportation	161	153	-0.51%	-8	-4.97%
Transit and Ground Passenger Transport	4,669	5,240	1.16%	571	12.23%
Support Activities for Transportation	73	86	1.65%	13	17.81%
Postal Service	5,174	4,806	-0.74%	-368	-7.11%
Couriers and Messengers	571	480	-1.72%	-91	-15.94%
Warehousing and Storage	**	**	**	**	**
Warehousing and Storage	**	**	**	**	**
Utilities	2,324	2,079	-1.11%	-245	-10.54%
Information	21,320	21,845	0.24%	525	2.46%
Publishing Industries	7,296	6,290	-1.47%	-1,006	-13.79%
Newspaper, Periodical, Book, and Directory Publishers	6,451	5,192	-2.15%	-1,259	-19.52%
Software Publishers	845	1,098	2.65%	253	29.94%
Motion Picture and Sound Recording Industries	1,135	1,031	-0.96%	-104	-9.16%
Motion Picture and Video Industries	1,108	1,011	-0.91%	-97	-8.75%
Sound Recording Industries	27	20	-2.96%	-7	-25.93%
Broadcasting (except Internet)	4,797	5,039	0.49%	242	5.04%
Radio and Television Broadcasting	4,304	4,429	0.29%	125	2.90%
Cable and Other Subscription Programming	493	610	2.15%	117	23.73%

Industry	Employment		Average Annual Growth Rate	Change, 2008 – 2018	
	2008	2018		Numeric	Percent
Internet Publishing and Broadcasting	200	442	8.25%	242	121.00%
Internet Publishing and Broadcasting	200	442	8.25%	242	121.00%
Telecommunications	3,662	3,335	-0.93%	-327	-8.93%
Internet Service Providers, Web Search Portals, and Data Providers	778	1,186	4.31%	408	52.44%
Other Information Services	3,452	4,522	2.74%	1,070	31.00%
Financial Activities	29,760	31,629	0.61%	1,869	6.28%
Finance and Insurance	18,311	19,115	0.43%	804	4.39%
Credit Intermediation and Related Activities	8,166	8,244	0.10%	78	0.96%
Depository Credit Intermediation	3,702	3,991	0.75%	289	7.81%
Nondepository Credit Intermediation	4,027	3,766	-0.67%	-261	-6.48%
Activities Related to Credit Intermediation	437	487	1.09%	50	11.44%
Securities, Commodity Contracts, and Other Financial Investment	2,798	3,120	1.10%	322	11.51%
Insurance Carriers and Related Activities	6,021	6,194	0.28%	173	2.87%
Funds, Trusts, and Other Financial Vehicles	1,326	1,557	1.62%	231	17.42%
Real Estate and Rental and Leasing	11,449	12,514	0.89%	1,065	9.30%
Real Estate	10,304	11,298	0.93%	994	9.65%
Lessors of Real Estate	3,159	3,465	0.93%	306	9.69%
Offices of Real Estate Agents and Brokers	1,335	1,316	-0.14%	-19	-1.42%
Activities Related to Real Estate	5,810	6,517	1.16%	707	12.17%
Rental and Leasing Services	1,145	1,216	0.60%	71	6.20%
Automotive Equipment Rental and Leasing	492	542	0.97%	50	10.16%
Consumer Goods Rental	424	439	0.35%	15	3.54%
General Rental Centers	**	**	**	**	**
Commercial and Industrial Machinery and Equipment Rental	**	**	**	**	**
Professional and Business Services	165,941	203,617	2.07%	37,676	22.70%
Professional, Scientific, and Technical Services	105,154	131,412	2.25%	26,258	24.97%
Professional, Scientific, and Technical Services	105,154	131,412	2.25%	26,258	24.97%
Legal Services	35,621	43,341	1.98%	7,720	21.67%
Accounting, Tax Preparation, Bookkeeping, and Payroll Services	4,817	5,819	1.91%	1,002	20.80%
Architectural, Engineering, and Related Services	8,251	9,886	1.82%	1,635	19.82%
Specialized Design Services	809	738	-0.91%	-71	-8.78%

Table 5 continued on the next page

Table 5: District of Columbia Employment by Industries, 2008 – 2018* (continued)

Industry	Employment		Average Annual Growth Rate	Change, 2008 – 2018	
	2008	2018		Numeric	Percent
Computer Systems Design and Related Services	17,770	28,978	5.01%	11,208	63.07%
Management, Scientific, and Technical Consulting Services	15,697	18,410	1.61%	2,713	17.28%
Scientific Research and Development Services	12,633	13,645	0.77%	1,012	8.01%
Advertising and Related Services	7,742	8,383	0.80%	641	8.28%
Other Professional, Scientific, and Technical Services	1,814	2,212	2.00%	398	21.94%
Management of Companies and Enterprises	1,574	1,659	0.53%	85	5.40%
Management of Companies and Enterprises	1,574	1,659	0.53%	85	5.40%
Administrative and Support and Waste Management and Remediation	59,213	70,546	1.77%	11,333	19.14%
Administrative and Support Services	58,298	69,471	1.77%	11,173	19.17%
Office Administrative Services	5,255	6,282	1.80%	1,027	19.54%
Facilities Support Services	3,085	4,025	2.70%	940	30.47%
Employment Services	17,174	20,444	1.76%	3,270	19.04%
Business Support Services	3,628	4,177	1.42%	549	15.13%
Travel Arrangement and Reservation Services	1,659	2,010	1.94%	351	21.16%
Investigation and Security Services	11,183	13,319	1.76%	2,136	19.10%
Services to Buildings and Dwellings	15,753	18,623	1.69%	2,870	18.22%
Other Support Services	561	591	0.52%	30	5.35%
Waste Management and Remediation Service	915	1,075	1.62%	160	17.49%
Education and Health Services	114,996	132,266	1.41%	17,270	15.02%
Educational Services	59,036	67,197	1.30%	8,161	13.82%
Educational Services	59,036	67,197	1.30%	8,161	13.82%
Elementary and Secondary Schools	19,573	21,540	0.96%	1,967	10.05%
Junior Colleges	**	**	**	**	**
Colleges, Universities, and Professional Schools	34,900	39,169	1.16%	4,269	12.23%
Business Schools and Computer and Management Training	686	623	-0.96%	-63	-9.18%
Technical and Trade Schools	153	231	4.21%	78	50.98%
Other Schools and Instruction	1,980	2,862	3.75%	882	44.55%
Educational Support Services	1,744	2,772	4.74%	1,028	58.94%
Health Care and Social Assistance	55,960	65,069	1.52%	9,109	16.28%
Ambulatory Health Care Services	13,175	17,674	2.98%	4,499	34.15%
Industry	Employment		Average Annual Growth Rate	Change, 2008 – 2018	
	2008	2018		Numeric	Percent
Offices of Physicians	3,983	5,336	2.97%	1,353	33.97%
Offices of Dentists	1,503	1,931	2.54%	428	28.48%
Offices of Other Health Practitioners	601	534	-1.18%	-67	-11.15%
Outpatient Care Centers	3,473	4,811	3.31%	1,338	38.53%
Medical and Diagnostic Laboratories	215	300	3.39%	85	39.53%
Home Health Care Services	2,879	4,206	3.86%	1,327	46.09%
Other Ambulatory Health Care Services	521	556	0.65%	35	6.72%
Hospitals	24,710	26,201	0.59%	1,491	6.03%
Nursing and Residential Care Facilities	6,985	7,363	0.53%	378	5.41%
Social Assistance	11,090	13,831	2.23%	2,741	24.72%
Leisure and Hospitality	57,664	62,293	0.78%	4,629	8.03%
Arts, Entertainment, and Recreation	7,048	8,171	1.49%	1,123	15.93%
Performing Arts, Spectator Sports, and Related Industries	3,612	4,168	1.44%	556	15.39%
Museums, Historical Sites, and Similar Institution	1,160	1,387	1.80%	227	19.57%
Amusement, Gambling, and Recreation Industries	2,276	2,616	1.40%	340	14.94%
Accommodation and Food Services	50,616	54,122	0.67%	3,506	6.93%
Accommodation	15,024	15,813	0.51%	789	5.25%
Food Services and Drinking Places	35,592	38,309	0.74%	2,717	7.63%
Other Services (Except Government)	69,977	76,033	0.83%	6,056	8.65%
Other Services (Except Government)	69,977	76,033	0.83%	6,056	8.65%
Repair and Maintenance	700	525	-2.84%	-175	-25.00%
Personal and Laundry Services	6,303	6,792	0.75%	489	7.76%
Religious, Grantmaking, Civic, Professional, and Similar Org	58,283	63,413	0.85%	5,130	8.80%
Private Households	4,691	5,303	1.23%	612	13.05%
Private Households	4,691	5,303	1.23%	612	13.05%
Government	213,230	227,594	0.65%	14,364	6.74%
Total Federal Government Employment	193,776	206,606	0.64%	12,830	6.62%
State Government, Excluding Education and Hospitals	19,454	20,988	0.76%	1,534	7.89%

Note: *District of Columbia 2008-2018 Industry and Occupational Projections

** Nondisclosable

Source: Department of Employment Services, Office of Labor Market Research and Information

Table 6: District of Columbia Industries with the Fastest Growing and Most Rapidly Declining Employment, 2008 – 2018*

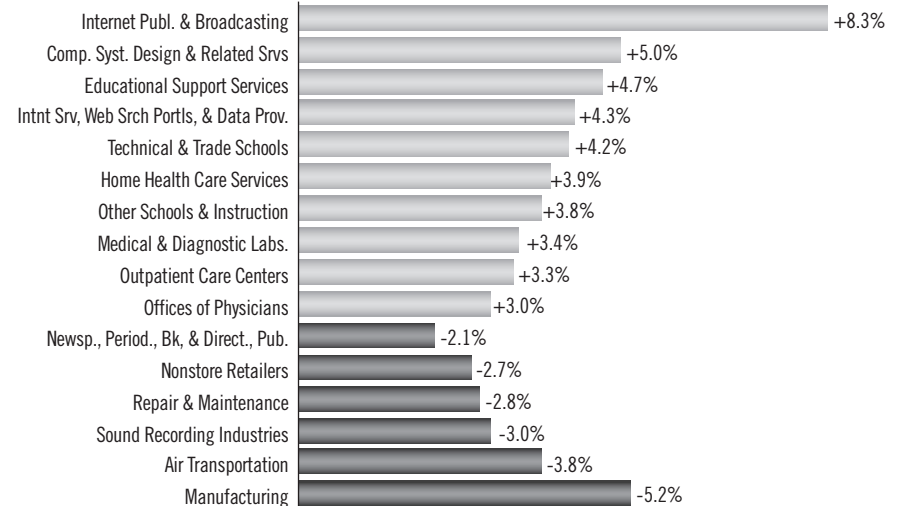
2007 NAICS	Industry Description	Employment		Average Annual Growth Rate	Change, 2008 – 2018	
		2008	2018		Numeric	Percent
	Fastest Growing					
516100	Internet Publishing & Broadcasting	200	442	8.3%	242	121.0%
541500	Computer Systems Design & Related Services	17,770	28,978	5.0%	11,208	63.1%
611700	Educational Support Services	1,744	2,772	4.7%	1,028	58.9%
518000	Internet Service Providers, Web Search Portals, & Data Pro	778	1,186	4.3%	408	52.4%
611500	Technical & Trade Schools	153	231	4.2%	78	51.0%
621600	Home Health Care Services	2,879	4,206	3.9%	1,327	46.1%
611600	Other Schools & Instruction	1,980	2,862	3.8%	882	44.5%
621500	Medical & Diagnostic Laboratories	215	300	3.4%	85	39.5%
621400	Outpatient Care Centers	3,473	4,811	3.3%	1,338	38.5%
621100	Offices of Physicians	3,983	5,336	3.0%	1,353	34.0%
519000	Other Information Services	3,452	4,522	2.7%	1,070	31.0%
561200	Facilities Support Services	3,085	4,025	2.7%	940	30.5%
511200	Software Publishers	845	1,098	2.7%	253	29.9%
621200	Offices of Dentists	1,503	1,931	2.5%	428	28.5%
425000	Wholesale Electronic Markets & Agents & Brokers	1,261	1,596	2.4%	335	26.6%
541000	Professional, Scientific, & Technical Services	105,154	131,412	2.3%	26,258	25.0%
624000	Social Assistance	11,090	13,831	2.2%	2,741	24.7%
515200	Cable & Other Subscription Programming	493	610	2.2%	117	23.7%
237900	Other Heavy & Civil Engineering Construction	50	61	2.0%	11	22.0%
541900	Other Professional, Scientific, & Technical Services	1,814	2,212	2.0%	398	21.9%
541100	Legal Services	35,621	43,341	2.0%	7,720	21.7%

2007 NAICS	Industry Description	Employment		Average Annual Growth Rate	Change, 2008 – 2018	
		2008	2018		Numeric	Percent
	Most Rapidly Declining					
310000	Manufacturing	1,610	945	-5.2%	-665	-41.3%
481000	Air Transportation	109	74	-3.8%	-35	-32.1%
512200	Sound Recording Industries	27	20	-3.0%	-7	-25.9%
811000	Repair & Maintenance	700	525	-2.8%	-175	-25.0%
454000	Nonstore Retailers	221	168	-2.7%	-53	-24.0%
511100	Newspaper, Periodical, Book, & Directory Publishers	6,451	5,192	-2.1%	-1,259	-19.5%
492000	Couriers & Messengers	571	480	-1.7%	-91	-15.9%
511000	Publishing Industries	7,296	6,290	-1.5%	-1,006	-13.8%
237200	L&S Subdivision	278	240	-1.5%	-38	-13.7%
443000	Electronics & Appliance Stores	537	466	-1.4%	-71	-13.2%
621300	Offices of Other Health Practitioners	601	534	-1.2%	-67	-11.1%
221000	Utilities	2,324	2,079	-1.1%	-245	-10.5%

Note: *District of Columbia 2008-2018 Industry and Occupational Projections

Source: Department of Employment Services, Office of Labor Market Research and Information

Figure 5: Fastest Growing and Declining Industries, Projected 2018



Source: DC Department of Employment Services, Office of Labor Market Research & Information

Table 7: District of Columbia Greatest Change in Employment Projections, 2008 – 2018*

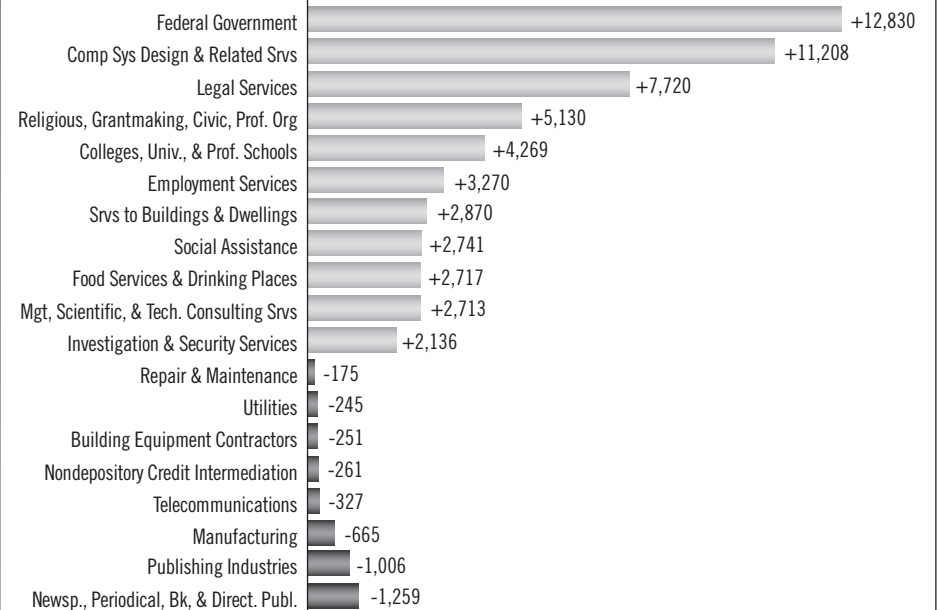
2007 NAICS	Industry Description	Employment		Average Annual Growth Rate	Change, 2008 – 2018	
		2008	2018		Numeric	Percent
	Largest growth					
910000	Total Federal Government Employment	193,776	206,606	0.6%	12,830	6.6%
541500	Computer Systems Design & Related Services	17,770	28,978	5.0%	11,208	63.1%
541100	Legal Services	35,621	43,341	2.0%	7,720	21.7%
813000	Religious, Grantmaking, Civic, Professional, & Similar Org	58,283	63,413	0.8%	5,130	8.8%
611300	Colleges, Universities, & Professional Schools	34,900	39,169	1.2%	4,269	12.2%
561300	Employment Services	17,174	20,444	1.8%	3,270	19.0%
561700	Services to Buildings & Dwellings	15,753	18,623	1.7%	2,870	18.2%
624000	Social Assistance	11,090	13,831	2.2%	2,741	24.7%
722000	Food Services & Drinking Places	35,592	38,309	0.7%	2,717	7.6%
541600	Management, Scientific, & Technical Consulting Services	15,697	18,410	1.6%	2,713	17.3%
561600	Investigation & Security Services	11,183	13,319	1.8%	2,136	19.1%
611100	Elementary & Secondary Schools	19,573	21,540	1.0%	1,967	10.0%
541300	Architectural, Engineering, & Related Services	8,251	9,886	1.8%	1,635	19.8%
920000	Total state government	19,454	20,988	0.8%	1,534	7.9%
622000	Hospitals	24,710	26,201	0.6%	1,491	6.0%
621100	Offices of Physicians	3,983	5,336	3.0%	1,353	34.0%
621400	Outpatient Care Centers	3,473	4,811	3.3%	1,338	38.5%
621600	Home Health Care Services	2,879	4,206	3.9%	1,327	46.1%
519000	Other Information Services	3,452	4,522	2.7%	1,070	31.0%
611700	Educational Support Services	1,744	2,772	4.7%	1,028	58.9%
561100	Office Administrative Services	5,255	6,282	1.8%	1,027	19.5%
541700	Scientific Research & Development Services	12,633	13,645	0.8%	1,012	8.0%
541200	Accounting, Tax Preparation, Bookkeeping, & Payroll Services	4,817	5,819	1.9%	1,002	20.8%

2007 NAICS	Industry Description	Employment		Average Annual Growth Rate	Change, 2008 – 2018	
		2008	2018		Numeric	Percent
	Largest Declines					
511100	Newspaper, Periodical, Book, & Directory Publishers	6,451	5,192	-2.1%	-1,259	-19.5%
511000	Publishing Industries	7,296	6,290	-1.5%	-1,006	-13.8%
310000	Manufacturing	1,610	945	-5.2%	-665	-41.3%
517000	Telecommunications	3,662	3,335	-0.9%	-327	-8.9%
522200	Nondepository Credit Intermediation	4,027	3,766	-0.7%	-261	-6.5%
238200	Building Equipment Contractors	3,132	2,881	-0.8%	-251	-8.0%
221000	Utilities	2,324	2,079	-1.1%	-245	-10.5%
811000	Repair & Maintenance	700	525	-2.8%	-175	-25.0%

Note: *District of Columbia 2008-2018 Industry and Occupational Projections

Source: Department of Employment Services, Office of Labor Market Research and Information

Figure 6: Largest Employment Change by Industries, 2008 and Projected 2018



Source: DC Department of Employment Services, Office of Labor Market Research & Information

Occupational Employment Projections 2008 – 2018

Summary

The District of Columbia is projected to have 82,858 more jobs in 2018 than in 2008, for an average annual growth rate of 1.0 percent or 10.0 percent for the 10-year period. Despite a slow job growth as a whole, most job openings will result from current workers leaving their occupations. The District is projected to create over 264,000 job openings over the decade: new job openings due to growth will account for 33 percent, and the need to replace current workers who leave their occupations or replacement openings will account for 67 percent of the total openings. In 2008, over 55 percent of the jobs in the District were in occupations that required at least a post-secondary award or a degree; and it is projected that occupations in such categories will account for almost 56 percent of all new job openings from 2008 to 2018. Medium-wage career clusters accounted for 78.5 percent of employment in 2008, and are projected to account for 72.7 percent of job growth between 2008 and 2018.

Occupational employment projections include 750 detailed occupations that are classified into 10 occupational groups (see Table 1). In 2008, employment was largely concentrated in four occupational groups, which accounted for over 83 percent of total employment in the District: management, business, and financial (27.5 percent), professional and related occupations (25.5 percent), service occupations (16.0 percent), office and administrative support (14.5 percent). The most rapid growth, estimated at 15.3 percent, will occur among professional and related occupations, while production occupations will experience the fastest rate of decline, decreasing by 3.4 percent. Professional occupations are projected to add the largest number of new jobs—more than 30,000—whereas production occupations are expected to lose almost 300 jobs over the 10-year projection period. Nevertheless, occupations in construction and manufacturing should see a boost in employment as occupations in green industries become well defined.

Occupational Projection by Occupational Groups, 2008-2018 Management, Business, and Financial Occupations

The employment of management, business, and financial occupations is projected to increase by 8.4 percent, resulting in 18,264 new jobs by 2018. Within the management, business, and financial occupations, employment in business and financial operations is expected to grow by 12.9 percent, adding 13,309 new jobs by 2018. Over half of the projected employment growth in business and financial operations will be in three occupations: business operation specialists is expected to add 2,951 new jobs with average annual growth rate of 0.8 percent; accountants and auditors expected to add 2,394 new jobs with average annual growth rate of 1.6 percent; and management analysts expected to add 1,874 with average annual growth rate of 0.8 percent, by 2018.

Employment in management occupations, by contrast, is expected to grow by 4.4 percent, adding 4,955 new jobs by 2018. Over 40 percent of the projected employment growth is expected in three occupations: computer and information systems managers is projected to add 756 new jobs with average annual growth rate of 1.7 percent; financial managers projected to add 690 new jobs with an average annual growth of 0.9 percent; and administrative services managers expected to add 580 new jobs with an average annual growth of 1.3 percent, by 2018. General and operations managers, the largest occupation sub group among management occupations, is expected to grow by a modest 0.1 percent annually, adding less than 50 new jobs to reach 32,275 jobs in 2018.

Table 8: District of Columbia Employment by Major Occupational Groups, 2008 and Projected 2018*

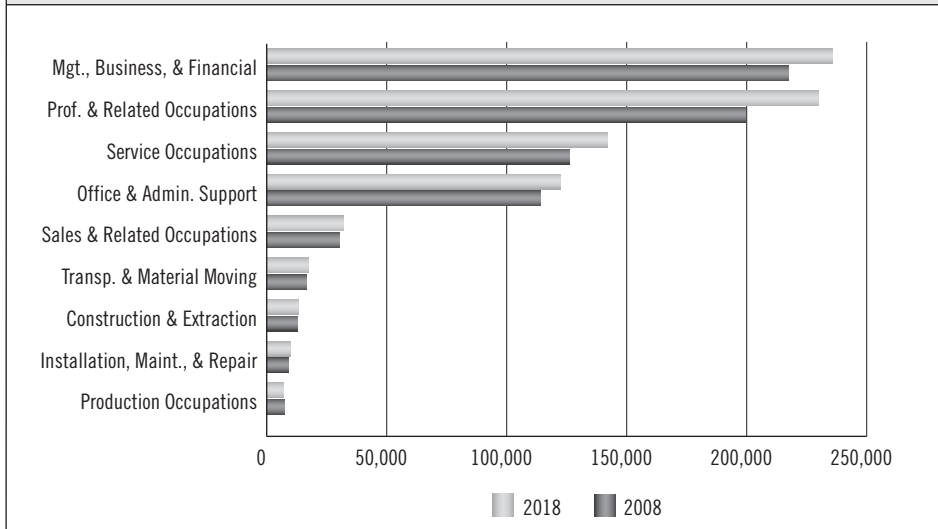
SOC Code	Occupational Matrix Code and Title	Employment		Percent Share		Change, 2008 – 2018	
		2008	2018	2008	2018	Numeric	Percent
00-0000	Total, All Occupations	787,156	870,014	100.0	100.0	82,858	10.5
11-1300	Management, Business, & Financial	216,848	235,112	27.5	27.0	18,264	8.4
15-2900	Professional & Related Occupations	199,001	229,358	25.3	26.4	30,357	15.3
31-3900	Service Occupations	125,951	141,876	16.0	16.3	15,925	12.6
41-0000	Sales and Related Occupations	30,592	32,151	3.9	3.7	1,559	5.1
43-0000	Office and Administrative Support	113,975	122,291	14.5	14.1	8,316	7.3
45-0000	Farming, Fishing, and Forestry	**	**			**	
47-0000	Construction and Extraction	13,087	13,749	1.7	1.6	662	5.1
49-0000	Installation, Maintenance, and Repair	9,530	10,273	1.2	1.2	743	7.8
51-0000	Production Occupations	7,650	7,388	1.0	0.8	-262	-3.4
53-0000	Transportation and Material Moving	16,886	17,922	2.1	2.1	1,036	6.1

Note: *District of Columbia 2008-2018 Industry and Occupational Projections

**Not available or nondisclosable.

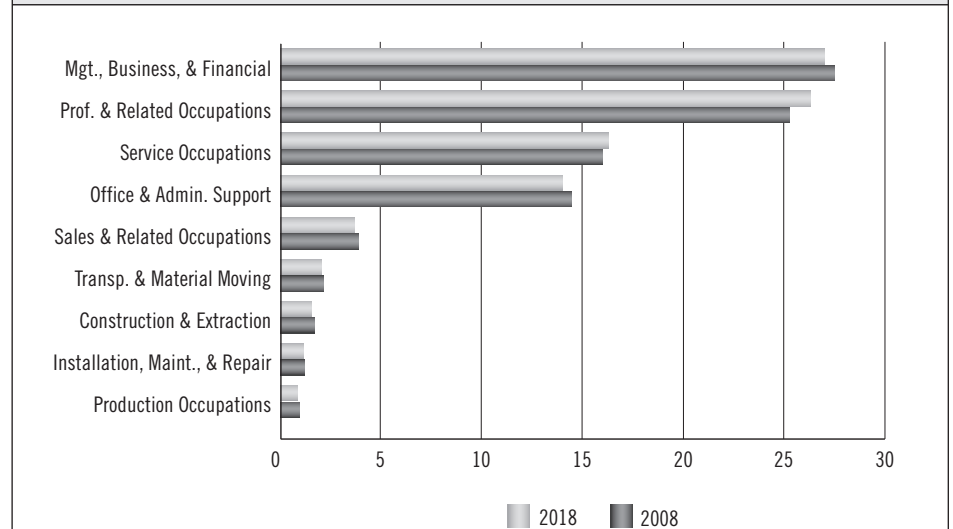
Source: D.C. Department of Employment Services, Office of Labor Market Research and Information

Figure 7: D.C. Non-Farm Employment by Occupational Group, 2008 and Projected 2018



Source: DC Department of Employment Services, Office of Labor Market Research & Information

Figure 8: D.C. Employment Share by Occupational Group, 2008 and Projected 2018



Source: DC Department of Employment Services, Office of Labor Market Research & Information

Table 9: District of Columbia Employment by Major Occupational Detail, 2008 and Projected 2018*

SOC Code	Occupational Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018		Average Annual Total Openings	Average Hourly Wage**	Average Annual Wage**
		2008	2018		Numeric	Percent			
00-0000	Total, All Occupations	787,156	870,014	1.0%	82,858	10.5%	26,403	\$38.32	\$66,417
11-0000	Management Occupations	113,477	118,432	0.4%	4,955	4.4%	3,356	\$46.61	\$111,859
11-1000	Top Executives	39,277	39,253	0.0%	-24	-0.1%	1,137	***	***
11-1011	Chief Executives	7,039	6,969	-0.1%	-70	-1.0%	198	\$76.01	\$170,410
11-1021	General and Operations Managers	32,229	32,275	0.0%	46	0.1%	939	\$51.08	\$113,533
11-1031	Legislators	***	***	***	***	***	***	***	***
11-2000	Advertising, Marketing, Promotions, Public Relations, and Sales Mgrs.	5,673	6,372	1.2%	699	12.3%	200	***	***
11-2011	Advertising and Promotions Managers	663	639	-0.4%	-24	-3.6%	16	\$60.96	\$89,562
11-2021	Marketing Managers	1,125	1,264	1.2%	139	12.4%	38	\$73.91	\$101,498
11-2022	Sales Managers	1,297	1,569	1.9%	272	21.0%	55	\$38.69	\$98,897
11-2031	Public Relations Managers	2,588	2,900	1.1%	312	12.1%	92	\$54.17	\$127,668
11-3000	Operations Specialties Managers	19,362	21,651	1.1%	2,289	11.8%	610	***	***
11-3011	Administrative Services Managers	4,096	4,676	1.3%	580	14.2%	144	\$44.31	\$74,932
11-3021	Computer and Information Systems Managers	4,063	4,819	1.7%	756	18.6%	142	\$52.76	\$120,766
11-3031	Financial Managers	7,614	8,304	0.9%	690	9.1%	206	\$26.85	\$113,352
11-3041	Compensation and Benefits Managers	522	598	1.4%	76	14.6%	19	\$26.64	\$85,283
11-3042	Training and Development Managers	135	153	1.3%	18	13.3%	5	\$51.65	\$98,453
11-3049	Human Resources Managers, All Other	921	1,010	0.9%	89	9.7%	29	\$37.55	\$118,015
11-3051	Industrial Production Managers	21	20	-0.5%	-1	-4.8%	1	\$33.74	\$85,236
11-3061	Purchasing Managers	1,617	1,720	0.6%	103	6.4%	56	\$38.39	\$112,160
11-3071	Transportation, Storage, and Distribution Managers	373	351	-0.6%	-22	-5.9%	10	\$21.17	\$112,716
11-9000	Other Management Occupations	49,165	51,156	0.4%	1,991	4.0%	1,409	***	***
11-9021	Construction Managers	1,080	1,176	0.9%	96	8.9%	18	\$38.46	\$86,676
11-9031	Education Administrators, Preschool and Child Care Center/Programs	379	421	1.1%	42	11.1%	15	\$33.79	\$53,880
11-9032	Education Administrators, Elementary and Secondary School	855	927	0.8%	72	8.4%	33	***	\$80,976
11-9033	Education Administrators, Post-secondary	1,180	1,245	0.5%	65	5.5%	42	\$24.48	\$86,349
11-9039	Education Administrators, All Other	737	814	1.0%	77	10.4%	30	\$41.72	\$92,310
11-9041	Engineering Managers	1,932	2,082	0.8%	150	7.8%	54	\$50.41	\$118,755
11-9051	Food Service Managers	963	978	0.2%	15	1.6%	21	\$17.13	\$51,124
11-9061	Funeral Directors	48	49	0.2%	1	2.1%	1	\$23.88	\$49,676
11-9081	Lodging Managers	330	342	0.4%	12	3.6%	8	\$49.87	\$68,342
11-9111	Medical and Health Services Managers	2,253	2,438	0.8%	185	8.2%	62	\$55.63	\$89,823
11-9121	Natural Sciences Managers	1,161	1,252	0.8%	91	7.8%	43	\$49.04	\$118,542
11-9131	Postmasters and Mail Superintendents	***	***	***	***	***	***	***	***
11-9141	Property, Real Estate, and Community Association Managers	2,234	2,370	0.6%	136	6.1%	53	\$55.89	\$58,657

Table 9 continued on the next page

Table 9: District of Columbia Employment by Major Occupational Detail, 2008 and Projected 2018* (continued)

SOC Code	Occupational Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018		Average Annual Total Openings	Average Hourly Wage**	Average Annual Wage**
		2008	2018		Numeric	Percent			
11-9151	Social and Community Service Managers	1,244	1,379	1.0%	135	10.9%	43	\$20.18	\$63,619
11-9199	Managers, All Other	34,765	35,679	0.3%	914	2.6%	988	\$54.43	\$115,809
13-0000	Business and Financial Operations Occupations	103,371	116,680	1.2%	13,309	12.9%	3,410	\$31.14	\$78,331
13-1000	Business Operations Specialists	78,789	87,942	1.1%	9,153	11.6%	2,572	***	***
13-1011	Agents and Business Managers of Artists, Performers, and Athletes	76	92	1.9%	16	21.1%	4	\$19.11	\$42,340
13-1021	Purchasing Agents and Buyers, Farm Products	69	72	0.4%	3	4.3%	2	\$33.74	\$59,008
13-1022	Wholesale and Retail Buyers, Except Farm Products	77	82	0.6%	5	6.5%	3	\$19.75	\$44,888
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	2,990	3,495	1.6%	505	16.9%	130	\$27.83	\$77,579
13-1031	Claims Adjusters, Examiners, and Investigators	893	1,020	1.3%	127	14.2%	36	\$34.83	\$71,898
13-1041	Compliance Officers, Except Agriculture, Construction, Health and Safety & Transportation	3,223	4,166	2.6%	943	29.3%	128	\$34.04	\$72,301
13-1051	Cost Estimators	191	223	1.6%	32	16.8%	7	\$53.42	\$72,865
13-1061	Emergency Management Specialists	55	64	1.5%	9	16.4%	2	\$29.77	\$62,186
13-1071	Employment, Recruitment, and Placement Specialists	2,483	3,144	2.4%	661	26.6%	131	\$30.18	\$53,577
13-1072	Compensation, Benefits, and Job Analysis Specialists	1,297	1,628	2.3%	331	25.5%	67	\$23.19	\$72,112
13-1073	Training and Development Specialists	1,346	1,703	2.4%	357	26.5%	71	\$30.39	\$66,158
13-1079	Human Resources, Training, and Labor Relations Specialists, All Others	4,854	5,720	1.7%	866	17.8%	214	\$38.58	\$86,626
13-1081	Logisticians	822	1,010	2.1%	188	22.9%	37	\$40.16	\$82,954
13-1111	Management Analysts	21,715	23,589	0.8%	1,874	8.6%	560	\$42.75	\$82,317
13-1121	Meeting and Convention Planners	2,303	2,588	1.2%	285	12.4%	80	\$21.78	\$51,573
13-1199	Business Operations Specialists, All Other	36,384	39,335	0.8%	2,951	8.1%	1,103	\$17.98	\$81,428
13-2000	Financial Specialists	24,582	28,738	1.6%	4,156	16.9%	838	***	***
13-2011	Accountants and Auditors	13,485	15,879	1.6%	2,394	17.8%	467	\$22.42	\$74,769
13-2021	Appraisers and Assessors of Real Estate	164	168	0.2%	4	2.4%	3	\$29.09	\$67,083
13-2031	Budget Analysts	2,642	3,074	1.5%	432	16.4%	91	\$33.40	\$76,897
13-2041	Credit Analysts	211	230	0.9%	19	9.0%	6	\$26.85	\$67,724
13-2051	Financial Analysts	2,121	2,648	2.2%	527	24.8%	92	\$39.38	\$83,596
13-2052	Personal Financial Advisors	966	1,231	2.5%	265	27.4%	37	\$39.23	\$77,187
13-2053	Insurance Underwriters	118	113	-0.4%	-5	-4.2%	3	\$30.72	\$64,493
13-2061	Financial Examiners	437	609	3.4%	172	39.4%	25	\$66.29	\$119,725
13-2071	Loan Counselors	99	125	2.4%	26	26.3%	4	\$18.40	\$38,649
13-2072	Loan Officers	782	834	0.6%	52	6.6%	14	\$32.60	\$70,132
13-2081	Tax Examiners, Collectors, and Revenue Agents	317	359	1.3%	42	13.2%	15	\$35.00	\$57,669
13-2082	Tax Preparers	306	318	0.4%	12	3.9%	6	\$15.49	\$32,221
13-2099	Financial Specialists, All Other	2,934	3,150	0.7%	216	7.4%	75	\$46.78	\$84,755
15-0000	Computer and Mathematical Occupations	38,412	48,935	2.5%	10,523	27.4%	1,816	\$36.38	\$80,193

Table 9 continued on the next page

Table 9: District of Columbia Employment by Major Occupational Detail, 2008 and Projected 2018* (continued)

SOC Code	Occupational Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018		Average Annual Total Openings	Average Hourly Wage**	Average Annual Wage**
		2008	2018		Numeric	Percent			
15-1000	Computer Specialists	35,645	45,835	2.5%	10,190	28.6%	1,702	***	***
15-1011	Computer and Information Scientists, Research	428	498	1.5%	70	16.4%	16	\$50.83	\$103,499
15-1021	Computer Programmers	3,086	3,275	0.6%	189	6.1%	77	\$35.53	\$72,080
15-1031	Computer Software Engineers, Applications	3,149	5,036	4.8%	1,887	59.9%	216	\$42.35	\$81,966
15-1032	Computer Software Engineers, Systems Software	1,936	2,836	3.9%	900	46.5%	106	\$40.25	\$88,873
15-1041	Computer Support Specialists	4,413	5,313	1.9%	900	20.4%	212	\$26.03	\$54,136
15-1051	Computer Systems Analysts	4,069	5,456	3.0%	1,387	34.1%	227	\$35.04	\$77,769
15-1061	Database Administrators	1,450	1,924	2.9%	474	32.7%	71	\$37.13	\$74,064
15-1071	Network and Computer Systems Administrators	4,135	5,902	3.6%	1,767	42.7%	246	\$33.78	\$73,656
15-1081	Network Systems and Data Communications Analysts	2,733	4,546	5.2%	1,813	66.3%	230	\$38.79	\$77,810
15-1099	Computer Specialists, All Other	10,246	11,049	0.8%	803	7.8%	301	\$37.84	\$96,020
15-2000	Mathematical Scientists	2,767	3,100	1.1%	333	12.0%	114	***	***
15-2011	Actuaries	317	348	0.9%	31	9.8%	12	\$50.55	\$102,700
15-2021	Mathematicians	***	***	***	***	***	***	***	***
15-2031	Operations Research Analysts	1,304	1,525	1.6%	221	16.9%	60	\$46.79	\$82,747
15-2041	Statisticians	1,049	1,123	0.7%	74	7.1%	38	\$44.73	\$94,713
15-2099	Mathematical Science Occupations, All Other	***	***	***	***	***	***	***	***
17-0000	Architecture and Engineering Occupations	14,867	16,903	1.3%	2,036	13.7%	511	\$16.27	\$88,418
17-1000	Architects, Surveyors, and Cartographers	3,240	3,678	1.3%	438	13.5%	100	***	***
17-1011	Architects, Except Landscape and Naval	2,973	3,377	1.3%	404	13.6%	90	\$52.46	\$76,474
17-1012	Landscape Architects	138	160	1.5%	22	15.9%	4	\$38.31	\$67,879
17-1021	Cartographers and Photogrammetrists	***	***	***	***	***	***	***	***
17-1022	Surveyors	109	117	0.7%	8	7.3%	4	\$26.97	\$53,352
17-2000	Engineers	9,433	10,767	1.3%	1,334	14.1%	341	***	***
17-2011	Aerospace Engineers	449	549	2.0%	100	22.3%	19	\$40.58	\$103,653
17-2021	Agricultural Engineers	***	***	***	***	***	***	***	***
17-2031	Biomedical Engineers	53	85	4.8%	32	60.4%	4	\$27.13	\$58,095
17-2041	Chemical Engineers	127	138	0.8%	11	8.7%	4	\$46.31	\$94,850
17-2051	Civil Engineers	791	892	1.2%	101	12.8%	23	\$42.32	\$86,980
17-2061	Computer Hardware Engineers	832	1,175	3.5%	343	41.2%	57	\$46.49	\$108,714
17-2071	Electrical Engineers	543	584	0.7%	41	7.6%	17	\$38.04	\$89,887
17-2072	Electronics Engineers, Except Computer	900	951	0.6%	51	5.7%	26	\$86.14	\$100,356
17-2081	Environmental Engineers	503	560	1.1%	57	11.3%	16	\$45.29	\$87,434
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	82	91	1.0%	9	11.0%	3	\$41.08	\$80,634
17-2112	Industrial Engineers	309	422	3.2%	113	36.6%	19	\$29.23	\$88,818

Table 9 continued on the next page

Table 9: District of Columbia Employment by Major Occupational Detail, 2008 and Projected 2018* (continued)

SOC Code	Occupational Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018		Average Annual Total Openings	Average Hourly Wage**	Average Annual Wage**
		2008	2018		Numeric	Percent			
17-2121	Marine Engineers and Naval Architects	302	326	0.8%	24	7.9%	8	\$54.70	\$111,850
17-2131	Materials Engineers	79	94	1.8%	15	19.0%	4	\$53.36	\$108,433
17-2141	Mechanical Engineers	725	855	1.7%	130	17.9%	32	\$41.62	\$90,488
17-2151	Mining and Geological Engineers, Including Mining Safety Engineer	***	***	***	***	***	***	***	***
17-2161	Nuclear Engineers	***	***	***	***	***	***	***	***
17-2171	Petroleum Engineers	***	***	***	***	***	***	***	***
17-2199	Engineers, All Other	***	***	***	***	***	***	***	***
17-3000	Drafters, Engineering, and Mapping Technicians	2,194	2,458	1.1%	264	12.0%	70	***	***
17-3011	Architectural and Civil Drafters	619	668	0.8%	49	7.9%	18	\$23.70	\$49,054
17-3012	Electrical and Electronics Drafters	***	***	***	***	***	***	***	***
17-3013	Mechanical Drafters	***	***	***	***	***	***	***	***
17-3019	Drafters, All Other	***	***	***	***	***	***	***	***
17-3022	Civil Engineering Technicians	290	317	0.9%	27	9.3%	9	\$30.21	\$57,454
17-3023	Electrical and Electronic Engineering Technicians	476	580	2.0%	104	21.8%	19	\$33.38	\$68,724
17-3025	Environmental Engineering Technicians	62	77	2.2%	15	24.2%	3	\$19.17	\$43,793
17-3026	Industrial Engineering Technicians	***	***	***	***	***	***	***	***
17-3027	Mechanical Engineering Technicians	***	***	***	***	***	***	***	***
17-3029	Engineering Technicians, Except Drafters, All Other	538	577	0.7%	39	7.2%	14	\$25.27	\$66,249
17-3031	Surveying and Mapping Technicians	***	***	***	***	***	***	***	***
19-0000	Life, Physical, and Social Science Occupations	26,750	29,927	1.1%	3,177	11.9%	1,246	\$59.50	\$86,320
19-1000	Life Scientists	1,854	2,193	1.7%	339	18.3%	82	***	***
19-1011	Animal Scientists	***	***	***	***	***	***	***	***
19-1012	Food Scientists and Technologists	80	97	1.9%	17	21.3%	5	\$43.55	\$89,417
19-1013	Soil and Plant Scientists	173	187	0.8%	14	8.1%	7	\$37.79	\$77,614
19-1021	Biochemists and Biophysicists	80	103	2.6%	23	28.8%	5	\$57.73	\$93,273
19-1022	Microbiologists	149	159	0.7%	10	6.7%	6	\$47.47	\$86,628
19-1023	Zoologists and Wildlife Biologists	145	154	0.6%	9	6.2%	6	\$36.17	\$99,571
19-1029	Biological Scientists, All Other	402	477	1.7%	75	18.7%	21	\$25.75	\$96,087
19-1031	Conservation Scientists	219	233	0.6%	14	6.4%	3	\$33.11	\$68,863
19-1032	Foresters	***	***	***	***	***	***	***	***
19-1041	Epidemiologists	35	39	1.1%	4	11.4%	1	\$32.93	\$70,339
19-1042	Medical Scientists, Except Epidemiologists	515	683	2.9%	168	32.6%	27	\$38.46	\$89,321
19-1099	Life Scientists, All Other	28	31	1.0%	3	10.7%	1	\$48.99	\$82,526
19-2000	Physical Scientists	4,267	4,598	0.7%	331	7.8%	154	***	***
19-2011	Astronomers	95	104	0.9%	9	9.5%	4	\$51.21	\$106,733

Table 9 continued on the next page

Table 9: District of Columbia Employment by Major Occupational Detail, 2008 and Projected 2018* (continued)

SOC Code	Occupational Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018		Average Annual Total Openings	Average Hourly Wage**	Average Annual Wage**
		2008	2018		Numeric	Percent			
19-2012	Physicists	625	671	0.7%	46	7.4%	23	\$55.97	\$114,134
19-2021	Atmospheric and Space Scientists	76	82	0.8%	6	7.9%	3	\$49.74	\$105,868
19-2031	Chemists	427	457	0.7%	30	7.0%	17	\$25.88	\$102,332
19-2032	Materials Scientists	34	38	1.1%	4	11.8%	1	\$41.08	\$99,780
19-2041	Environmental Scientists and Specialists, Including Health	1,757	1,906	0.8%	149	8.5%	65	\$39.18	\$97,235
19-2042	Geoscientists, Except Hydrologists and Geographers	159	169	0.6%	10	6.3%	6	\$46.60	\$99,181
19-2043	Hydrologists	76	71	-0.7%	-5	-6.6%	2	\$30.88	\$64,233
19-2099	Physical Scientists, All Other	1,018	1,100	0.8%	82	8.1%	34	\$36.47	\$107,598
19-3000	Social Scientists and Related Workers	18,861	21,170	1.2%	2,309	12.2%	917	***	***
19-3011	Economists	5,277	5,154	-0.2%	-123	-2.3%	150	\$66.55	\$110,243
19-3021	Market Research Analysts	4,042	4,976	2.1%	934	23.1%	202	\$24.03	\$66,971
19-3022	Survey Researchers	820	1,053	2.5%	233	28.4%	45	\$27.30	\$58,935
19-3031	Clinical, Counseling, and School Psychologists	779	817	0.5%	38	4.9%	26	\$30.16	\$62,089
19-3032	Industrial-Organizational Psychologists	148	156	0.5%	8	5.4%	5	\$42.50	\$74,466
19-3039	Psychologists, All Other	228	241	0.6%	13	5.7%	8	\$42.51	\$88,059
19-3041	Sociologists	667	740	1.0%	73	10.9%	20	\$43.32	\$87,358
19-3051	Urban and Regional Planners	249	283	1.3%	34	13.7%	8	\$38.79	\$77,431
19-3091	Anthropologists and Archeologists	54	64	1.7%	10	18.5%	4	\$45.11	\$88,534
19-3092	Geographers	***	***	***	***	***	***	***	***
19-3093	Historians	542	444	-2.0%	-98	-18.1%	27	\$30.85	\$77,812
19-3094	Political Scientists	2,841	3,336	1.6%	495	17.4%	192	\$39.84	\$102,954
19-3099	Social Scientists and Related Workers, All Other	3,197	3,886	2.0%	689	21.6%	229	\$33.53	\$79,636
19-4000	Life, Physical, and Social Science Technicians	1,768	1,966	1.1%	198	11.2%	93	***	***
19-4011	Agricultural and Food Science Technicians	137	152	1.0%	15	10.9%	7	\$23.96	\$49,845
19-4021	Biological Technicians	134	149	1.1%	15	11.2%	7	\$19.88	\$38,802
19-4031	Chemical Technicians	22	22	0.0%	0	0.0%	0	\$14.63	\$40,886
19-4061	Social Science Research Assistants	799	874	0.9%	75	9.4%	42	\$40.34	\$41,978
19-4091	Environmental Science and Protection Technicians, Including Health	166	195	1.6%	29	17.5%	10	\$18.92	\$44,134
19-4092	Forensic Science Technicians	191	232	2.0%	41	21.5%	12	\$24.37	\$65,216
19-4099	Life, Physical, and Social Science Technicians, All Other	318	340	0.7%	22	6.9%	16	\$22.10	\$45,980
21-0000	Community and Social Services Occupations	11,677	13,577	1.5%	1,900	16.3%	448	\$22.61	\$44,199
21-1000	Counselors, Social Workers, and Other Community and Social Service	11,184	13,037	1.5%	1,853	16.6%	433	***	***
21-1011	Substance Abuse and Behavioral Disorder Counselors	436	513	1.6%	77	17.7%	17	\$21.75	\$35,671
21-1012	Educational, Vocational, and School Counselors	1,748	2,102	1.9%	354	20.3%	70	\$26.25	\$48,367
21-1013	Marriage and Family Therapists	***	***	0.5%	***	5.3%	***	\$27.18	\$57,826

Table 9 continued on the next page

Table 9: District of Columbia Employment by Major Occupational Detail, 2008 and Projected 2018* (continued)

SOC Code	Occupational Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018		Average Annual Total Openings	Average Hourly Wage**	Average Annual Wage**
		2008	2018		Numeric	Percent			
21-1014	Mental Health Counselors	453	534	1.7%	81	17.9%	17	\$26.24	\$45,053
21-1015	Rehabilitation Counselors	926	992	0.7%	66	7.1%	26	\$24.35	\$31,007
21-1019	Counselors, All Other	23	26	1.2%	3	13.0%	1	\$18.20	\$36,095
21-1021	Child, Family, and School Social Workers	1,473	1,626	1.0%	153	10.4%	52	\$26.16	\$47,744
21-1022	Medical and Public Health Social Workers	388	445	1.4%	57	14.7%	16	\$36.34	\$61,447
21-1023	Mental Health and Substance Abuse Social Workers	1,176	1,318	1.1%	142	12.1%	44	\$18.18	\$44,649
21-1029	Social Workers, All Other	601	660	0.9%	59	9.8%	21	\$14.29	\$48,369
21-1091	Health Educators	804	909	1.2%	105	13.1%	28	\$28.85	\$74,009
21-1092	Probation Officers and Correctional Treatment Specialists	131	165	2.3%	34	26.0%	6	\$30.87	\$49,792
21-1093	Social and Human Service Assistants	2,109	2,687	2.5%	578	27.4%	103	\$14.55	\$30,999
21-1099	Community and Social Service Specialists, All Other	897	1,040	1.5%	143	15.9%	33	\$21.64	\$39,782
21-2000	Religious Workers	493	540	0.9%	47	9.5%	15	***	***
21-2011	Clergy	292	322	1.0%	30	10.3%	9	\$15.45	\$50,746
21-2021	Directors, Religious Activities and Education	197	214	0.8%	17	8.6%	6	\$42.22	\$47,921
21-2099	Religious Workers, All Other	***	***	***	***	***	***	***	***
23-0000	Legal Occupations	53,524	59,771	1.1%	6,247	11.7%	1,558	\$54.60	\$126,458
23-1000	Lawyers, Judges, and Related Workers	42,954	46,697	0.8%	3,743	8.7%	1,177	***	***
23-1011	Lawyers	42,418	46,120	0.8%	3,702	8.7%	1,163	***	***
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	365	390	0.7%	25	6.8%	10	\$53.22	\$110,699
23-1022	Arbitrators, Mediators, and Conciliators	171	187	0.9%	16	9.4%	5	\$25.20	\$70,100
23-2000	Legal Support Workers	10,570	13,074	2.1%	2,504	23.7%	382	***	***
23-2011	Paralegals and Legal Assistants	7,518	9,528	2.4%	2,010	26.7%	286	***	***
23-2091	Court Reporters	977	1,237	2.4%	260	26.6%	40	\$22.86	\$46,098
23-2092	Law Clerks	602	716	1.7%	114	18.9%	20	\$26.44	\$61,223
23-2093	Title Examiners, Abstractors, and Searchers	***	***	***	***	***	***	***	***
23-2099	Legal Support Workers, All Other	1,455	1,578	0.8%	123	8.5%	34	\$29.98	\$53,380
25-0000	Education, Training, and Library Occupations	41,090	46,759	1.3%	5,669	13.8%	1,393	\$37.38	\$57,229
25-1000	Post-secondary Teachers	15,633	17,893	1.4%	2,260	14.5%	498	***	***
25-1011	Business Teachers, Post-secondary	1,386	1,614	1.5%	228	16.5%	47	***	***
25-1021	Computer Science Teachers, Post-secondary	350	406	1.5%	56	16.0%	12	***	***
25-1022	Mathematical Science Teachers, Post-secondary	448	515	1.4%	67	15.0%	15	***	***
25-1031	Architecture Teachers, Post-secondary	421	484	1.4%	63	15.0%	13	***	***
25-1032	Engineering Teachers, Post-secondary	459	528	1.4%	69	15.0%	15	***	***
25-1041	Agricultural Sciences Teachers, Post-secondary	93	107	1.4%	14	15.1%	3	***	***
25-1042	Biological Science Teachers, Post-secondary	296	341	1.4%	45	15.2%	10	***	***

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Table 9: District of Columbia Employment by Major Occupational Detail, 2008 and Projected 2018* (continued)

SOC Code	Occupational Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018		Average Annual Total Openings	Average Hourly Wage**	Average Annual Wage**
		2008	2018		Numeric	Percent			
25-1043	Forestry and Conservation Science Teachers, Post-secondary	***	***	***	***	***	***	***	***
25-1051	Atmospheric, Earth, Marine, and Space Sciences Teachers, Post-secondary	***	***	***	***	***	***	***	***
25-1052	Chemistry Teachers, Post-secondary	155	178	1.4%	23	14.8%	5	***	***
25-1053	Environmental Science Teachers, Post-secondary	***	***	***	***	***	***	***	***
25-1054	Physics Teachers, Post-secondary	138	158	1.4%	20	14.5%	4	***	***
25-1061	Anthropology and Archeology Teachers, Post-secondary	92	106	1.4%	14	15.2%	3	***	***
25-1062	Area, Ethnic, and Cultural Studies Teachers, Post-secondary	127	146	1.4%	19	15.0%	4	***	***
25-1063	Economics Teachers, Post-secondary	272	313	1.4%	41	15.1%	9	***	***
25-1064	Geography Teachers, Post-secondary	33	38	1.4%	5	15.2%	2	***	***
25-1065	Political Science Teachers, Post-secondary	834	960	1.4%	126	15.1%	28	***	***
25-1066	Psychology Teachers, Post-secondary	363	417	1.4%	54	14.9%	11	***	***
25-1067	Sociology Teachers, Post-secondary	141	162	1.4%	21	14.9%	5	***	***
25-1071	Health Specialties Teachers, Post-secondary	2,849	3,057	0.7%	208	7.3%	71	***	***
25-1072	Nursing Instructors and Teachers, Post-secondary	682	782	1.4%	100	14.7%	22	***	***
25-1081	Education Teachers, Post-secondary	407	468	1.4%	61	15.0%	13	***	***
25-1082	Library Science Teachers, Post-secondary	***	***	***	***	***	***	***	***
25-1111	Criminal Justice and Law Enforcement Teachers, Post-secondary	213	245	1.4%	32	15.0%	7	***	***
25-1112	Law Teachers, Post-secondary	873	1,003	1.4%	130	14.9%	28	***	***
25-1113	Social Work Teachers, Post-secondary	371	426	1.4%	55	14.8%	13	***	***
25-1121	Art, Drama, and Music Teachers, Post-secondary	797	969	2.0%	172	21.6%	31	***	***
25-1122	Communications Teachers, Post-secondary	523	604	1.5%	81	15.5%	17	***	***
25-1123	English Language and Literature Teachers, Post-secondary	785	903	1.4%	118	15.0%	26	***	***
25-1124	Foreign Language and Literature Teachers, Post-secondary	384	461	1.8%	77	20.1%	15	***	***
25-1125	History Teachers, Post-secondary	246	283	1.4%	37	15.0%	8	***	***
25-1126	Philosophy and Religion Teachers, Post-secondary	247	284	1.4%	37	15.0%	8	***	***
25-1191	Graduate Teaching Assistants	906	1,041	1.4%	135	14.9%	30	***	***
25-1193	Recreation and Fitness Studies Teachers, Post-secondary	91	104	1.3%	13	14.3%	3	***	***
25-1194	Vocational Education Teachers, Post-secondary	206	279	3.1%	73	35.4%	11	***	***
25-1199	Post-secondary Teachers, All Other	338	389	1.4%	51	15.1%	11	***	***
25-2000	Primary, Secondary, and Special Education School Teachers	7,413	8,511	1.4%	1,098	14.8%	289	***	***
25-2011	Preschool Teachers, Except Special Education	1,221	1,444	1.7%	223	18.3%	47	***	***
25-2012	Kindergarten Teachers, Except Special Education	212	243	1.4%	31	14.6%	7	***	***
25-2021	Elementary School Teachers, Except Special Education	2,842	3,311	1.5%	469	16.5%	112	***	***
25-2022	Middle School Teachers, Except Special and Vocational Education	694	803	1.5%	109	15.7%	27	***	***
25-2031	Secondary School Teachers, Except Special and Vocational Education	1,823	1,983	0.8%	160	8.8%	69	***	***

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Table 9: District of Columbia Employment by Major Occupational Detail, 2008 and Projected 2018* (continued)

SOC Code	Occupational Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018		Average Annual Total Openings	Average Hourly Wage**	Average Annual Wage**
		2008	2018		Numeric	Percent			
25-2032	Vocational Education Teachers, Secondary School	54	59	0.9%	5	9.3%	3	***	***
25-2041	Special Education Teachers, Preschool, Kindergarten, and Elementary	227	279	2.1%	52	22.9%	11	***	***
25-2042	Special Education Teachers, Middle School	101	120	1.7%	19	18.8%	5	***	***
25-2043	Special Education Teachers, Secondary School	239	269	1.2%	30	12.6%	9	***	***
25-3000	Other Teachers and Instructors	8,062	9,121	1.2%	1,059	13.1%	230	***	***
25-3011	Adult Literacy, Remedial Education, and GED Teachers and Instructors	274	317	1.5%	43	15.7%	8	\$14.19	\$33,831
25-3021	Self-Enrichment Education Teachers	1,228	1,657	3.0%	429	34.9%	62	\$20.13	\$43,168
25-3099	Teachers and Instructors, All Other	6,560	7,147	0.9%	587	8.9%	160	***	***
25-4000	Librarians, Curators, and Archivists	3,419	3,789	1.0%	370	10.8%	146	***	***
25-4011	Archivists	145	148	0.2%	3	2.1%	4	\$31.80	\$69,086
25-4012	Curators	211	245	1.5%	34	16.1%	9	\$42.89	\$72,522
25-4013	Museum Technicians and Conservators	647	768	1.7%	121	18.7%	31	\$16.07	\$57,460
25-4021	Librarians	1,562	1,675	0.7%	113	7.2%	52	\$21.74	\$63,693
25-4031	Library Technicians	854	953	1.1%	99	11.6%	48	\$23.16	\$42,090
25-9000	Other Education, Training, and Library Occupations	6,563	7,445	1.3%	882	13.4%	229	***	***
25-9011	Audio-Visual Collections Specialists	104	116	1.1%	12	11.5%	3	\$17.68	\$37,774
25-9031	Instructional Coordinators	2,200	2,599	1.7%	399	18.1%	89	\$48.39	\$68,544
25-9041	Teacher Assistants	3,718	4,121	1.0%	403	10.8%	119	***	\$24,074
25-9099	Education, Training, and Library Workers, All Other	541	609	1.2%	68	12.6%	19	\$21.58	\$44,886
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations	40,107	43,800	0.9%	3,693	9.2%	1,371	\$38.42	\$74,452
27-1000	Art and Design Workers	8,310	8,661	0.4%	351	4.2%	253	***	***
27-1011	Art Directors	743	783	0.5%	40	5.4%	21	\$41.13	\$71,044
27-1012	Craft Artists	***	***	***	***	***	***	***	***
27-1013	Fine Artists, Including Painters, Sculptors, and Illustrators	***	***	***	***	***	***	***	***
27-1014	Multi-Media Artists and Animators	240	248	0.3%	8	3.3%	6	\$27.53	\$54,595
27-1019	Artists and Related Workers, All Other	3,497	3,573	0.2%	76	2.2%	86	\$34.33	\$75,571
27-1021	Commercial and Industrial Designers	19	21	1.0%	2	10.5%	1	\$19.06	\$61,734
27-1023	Floral Designers	80	75	-0.6%	-5	-6.3%	3	\$13.04	\$27,596
27-1024	Graphic Designers	2,240	2,367	0.6%	127	5.7%	82	\$26.62	\$62,181
27-1025	Interior Designers	954	1,023	0.7%	69	7.2%	36	\$44.32	\$62,927
27-1026	Merchandise Displayers and Window Trimmers	161	165	0.2%	4	2.5%	5	\$13.51	\$27,613
27-1027	Set and Exhibit Designers	288	315	0.9%	27	9.4%	12	\$32.61	\$56,577
27-1029	Designers, All Other	19	17	-1.1%	-2	-10.5%	1	\$42.07	\$60,967
27-2000	Entertainers and Performers, Sports and Related Workers	4,097	4,380	0.7%	283	6.9%	135	***	***
27-2011	Actors	732	783	0.7%	51	7.0%	23	***	***

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Table 9: District of Columbia Employment by Major Occupational Detail, 2008 and Projected 2018* (continued)

SOC Code	Occupational Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018		Average Annual Total Openings	Average Hourly Wage**	Average Annual Wage**
		2008	2018		Numeric	Percent			
27-2012	Producers and Directors	1,712	1,768	0.3%	56	3.3%	59	***	***
27-2021	Athletes and Sports Competitors	92	100	0.8%	8	8.7%	3	***	***
27-2022	Coaches and Scouts	676	814	1.9%	138	20.4%	27	***	***
27-2031	Dancers	96	95	-0.1%	-1	-1.0%	4	***	***
27-2041	Music Directors and Composers	110	115	0.4%	5	4.5%	3	\$23.54	\$52,996
27-2042	Musicians and Singers	551	569	0.3%	18	3.3%	13	***	***
27-3000	Media and Communication Workers	24,616	27,548	1.1%	2,932	11.9%	887	***	***
27-3011	Radio and Television Announcers	189	175	-0.8%	-14	-7.4%	5	\$51.99	\$113,540
27-3012	Public Address System and Other Announcers	39	38	-0.3%	-1	-2.6%	1	\$8.42	\$35,944
27-3021	Broadcast News Analysts	206	212	0.3%	6	2.9%	7	\$33.13	\$64,184
27-3022	Reporters and Correspondents	2,456	2,384	-0.3%	-72	-2.9%	68	\$19.06	\$69,932
27-3031	Public Relations Specialists	10,970	13,028	1.7%	2,058	18.8%	466	\$39.61	\$91,147
27-3041	Editors	4,295	4,571	0.6%	276	6.4%	141	\$35.93	\$63,261
27-3042	Technical Writers	763	899	1.7%	136	17.8%	26	\$32.15	\$67,342
27-3043	Writers and Authors	5,258	5,741	0.9%	483	9.2%	158	\$32.71	\$73,710
27-3091	Interpreters and Translators	261	311	1.8%	50	19.2%	11	\$40.02	\$62,639
27-3099	Media and Communication Workers, All Other	179	189	0.5%	10	5.6%	5	\$34.39	\$57,266
27-4000	Media and Communication Equipment Workers	3,084	3,211	0.4%	127	4.1%	96	***	***
27-4011	Audio and Video Equipment Technicians	507	551	0.8%	44	8.7%	19	\$8.26	\$49,344
27-4012	Broadcast Technicians	810	806	0.0%	-4	-0.5%	25	\$20.47	\$57,089
27-4013	Radio Operators	79	86	0.9%	7	8.9%	3	\$21.13	\$43,956
27-4014	Sound Engineering Technicians	131	141	0.7%	10	7.6%	5	\$33.13	\$69,805
27-4021	Photographers	419	440	0.5%	21	5.0%	10	\$31.72	\$52,457
27-4031	Camera Operators, Television, Video, and Motion Picture	434	456	0.5%	22	5.1%	13	\$29.93	\$58,353
27-4032	Film and Video Editors	129	126	-0.2%	-3	-2.3%	3	\$33.59	\$70,188
27-4099	Media and Communication Equipment Workers, All Other	575	605	0.5%	30	5.2%	17	\$12.17	\$82,953
29-0000	Healthcare Practitioners and Technical Occupations	26,098	29,457	1.2%	3,359	12.9%	883	\$21.36	\$72,014
29-1000	Health Diagnosing and Treating Practitioners	16,242	18,469	1.3%	2,227	13.7%	527	***	***
29-1011	Chiropractors	***	***	***	***	***	***	***	***
29-1021	Dentists, General	340	386	1.3%	46	13.5%	14	\$55.67	\$152,960
29-1029	Dentists, All Other Specialists	49	53	0.8%	4	8.2%	1	\$69.53	\$144,611
29-1031	Dietitians and Nutritionists	492	556	1.2%	64	13.0%	22	\$13.27	\$44,127
29-1041	Optometrists	95	88	-0.8%	-7	-7.4%	3	\$43.64	\$90,710
29-1051	Pharmacists	633	691	0.9%	58	9.2%	20	\$51.77	\$102,860
29-1061	Anesthesiologists	30	30	0.0%	0	0.0%	1	\$78.15	\$162,553

Table 9 continued on the next page

Table 9: District of Columbia Employment by Major Occupational Detail, 2008 and Projected 2018* (continued)

SOC Code	Occupational Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018		Average Annual Total Openings	Average Hourly Wage**	Average Annual Wage**
		2008	2018		Numeric	Percent			
29-1062	Family and General Practitioners	488	627	2.5%	139	28.5%	23	\$33.88	\$149,028
29-1063	Internists, General	57	66	1.5%	9	15.8%	2	\$79.02	\$138,319
29-1064	Obstetricians and Gynecologists	128	153	1.8%	25	19.5%	5	\$88.63	\$193,242
29-1066	Psychiatrists	236	255	0.8%	19	8.1%	6	\$51.98	\$108,124
29-1067	Surgeons	336	438	2.7%	102	30.4%	16	***	***
29-1069	Physicians and Surgeons, All Other	1,565	1,669	0.6%	104	6.6%	38	\$53.34	\$167,933
29-1071	Physician Assistants	557	652	1.6%	95	17.1%	20	\$36.87	\$89,073
29-1081	Podiatrists	19	24	2.4%	5	26.3%	1	\$64.08	\$133,300
29-1111	Registered Nurses	8,891	10,205	1.4%	1,314	14.8%	286	\$28.44	\$69,309
29-1121	Audiologists	59	75	2.4%	16	27.1%	3	\$34.17	\$66,620
29-1122	Occupational Therapists	200	220	1.0%	20	10.0%	6	\$34.99	\$72,790
29-1123	Physical Therapists	315	361	1.4%	46	14.6%	9	\$29.45	\$78,310
29-1124	Radiation Therapists	164	191	1.5%	27	16.5%	6	\$30.10	\$62,604
29-1125	Recreational Therapists	98	105	0.7%	7	7.1%	5	\$24.96	\$52,843
29-1126	Respiratory Therapists	323	365	1.2%	42	13.0%	10	\$26.84	\$51,386
29-1127	Speech-Language Pathologists	398	433	0.8%	35	8.8%	11	\$31.54	\$68,575
29-1129	Therapists, All Other	160	174	0.8%	14	8.8%	4	\$33.53	\$32,930
29-1131	Veterinarians	55	70	2.4%	15	27.3%	3	\$40.44	\$87,829
29-1199	Health Diagnosing and Treating Practitioners, All Other	548	577	0.5%	29	5.3%	13	\$48.37	\$97,800
29-2000	Health Technologists and Technicians	8,502	9,538	1.2%	1,036	12.2%	302	***	***
29-2011	Medical and Clinical Laboratory Technologists	753	745	-0.1%	-8	-1.1%	14	\$26.47	\$57,917
29-2012	Medical and Clinical Laboratory Technicians	506	519	0.3%	13	2.6%	11	\$35.40	\$38,274
29-2021	Dental Hygienists	439	599	3.2%	160	36.4%	25	\$35.21	\$73,103
29-2031	Cardiovascular Technologists and Technicians	126	151	1.8%	25	19.8%	5	\$23.62	\$54,067
29-2032	Diagnostic Medical Sonographers	70	84	1.8%	14	20.0%	2	\$33.60	\$65,654
29-2033	Nuclear Medicine Technologists	66	72	0.9%	6	9.1%	2	\$31.22	\$65,686
29-2034	Radiologic Technologists and Technicians	664	735	1.0%	71	10.7%	17	\$29.69	\$58,713
29-2041	Emergency Medical Technicians and Paramedics	1,239	1,404	1.3%	165	13.3%	42	\$17.36	\$43,878
29-2051	Dietetic Technicians	13	14	0.7%	1	7.7%	0	\$10.36	\$21,563
29-2052	Pharmacy Technicians	688	817	1.7%	129	18.8%	30	\$10.79	\$30,827
29-2053	Psychiatric Technicians	433	433	0.0%	0	0.0%	11	\$19.17	\$39,580
29-2054	Respiratory Therapy Technicians	47	44	-0.7%	-3	-6.4%	1	\$20.26	\$42,144
29-2055	Surgical Technologists	570	701	2.1%	131	23.0%	27	\$21.14	\$43,972
29-2056	Veterinary Technologists and Technicians	39	52	2.9%	13	33.3%	2	\$19.27	\$34,309
29-2061	Licensed Practical and Licensed Vocational Nurses	1,684	1,886	1.1%	202	12.0%	73	\$25.00	\$44,650

Table 9 continued on the next page

Table 9: District of Columbia Employment by Major Occupational Detail, 2008 and Projected 2018* (continued)

SOC Code	Occupational Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018		Average Annual Total Openings	Average Hourly Wage**	Average Annual Wage**
		2008	2018		Numeric	Percent			
29-2071	Medical Records and Health Information Technicians	482	541	1.2%	59	12.2%	16	\$14.22	\$38,642
29-2081	Opticians, Dispensing	261	219	-1.7%	-42	-16.1%	5	\$13.56	\$32,761
29-2091	Orthotists and Prosthetists	20	22	1.0%	2	10.0%	0	\$22.45	\$52,820
29-2099	Health Technologists and Technicians, All Other	402	500	2.2%	98	24.4%	18	\$13.14	\$40,731
29-9000	Other Healthcare Practitioners and Technical Occupations	1,354	1,450	0.7%	96	7.1%	55	***	***
29-9011	Occupational Health and Safety Specialists	440	469	0.6%	29	6.6%	18	\$41.92	\$78,426
29-9012	Occupational Health and Safety Technicians	70	76	0.8%	6	8.6%	3	\$23.78	\$42,413
29-9091	Athletic Trainers	36	45	2.3%	9	25.0%	2	***	\$67,820
29-9099	Healthcare Practitioners and Technical Workers, All Other	808	860	0.6%	52	6.4%	32	\$22.49	\$47,694
31-0000	Healthcare Support Occupations	9,256	11,797	2.5%	2,541	27.5%	356	\$19.72	\$27,620
31-1000	Nursing, Psychiatric, and Home Health Aides	6,091	7,960	2.7%	1,869	30.7%	248	***	***
31-1011	Home Health Aides	2,706	4,179	4.4%	1,473	54.4%	174	\$10.36	\$21,555
31-1012	Nursing Aides, Orderlies, and Attendants	3,022	3,421	1.2%	399	13.2%	70	\$12.61	\$25,619
31-1013	Psychiatric Aides	363	360	-0.1%	-3	-0.8%	4	\$16.62	\$35,103
31-2000	Occupational and Physical Therapist Assistants and Aides	181	215	1.7%	34	18.8%	6	***	***
31-2011	Occupational Therapist Assistants	20	21	0.5%	1	5.0%	0	\$21.86	\$41,410
31-2012	Occupational Therapist Aides	12	13	0.8%	1	8.3%	0	\$15.56	\$32,039
31-2021	Physical Therapist Assistants	68	82	1.9%	14	20.6%	2	\$17.99	\$37,425
31-2022	Physical Therapist Aides	81	99	2.0%	18	22.2%	3	\$12.45	\$25,774
31-9000	Other Healthcare Support Occupations	2,984	3,622	2.0%	638	21.4%	102	***	***
31-9011	Massage Therapists	179	183	0.2%	4	2.2%	2	\$15.58	\$38,025
31-9091	Dental Assistants	485	638	2.8%	153	31.5%	24	\$19.39	\$42,195
31-9092	Medical Assistants	1,275	1,657	2.7%	382	30.0%	52	\$21.94	\$34,874
31-9093	Medical Equipment Preparers	52	54	0.4%	2	3.8%	1	\$22.09	\$35,075
31-9094	Medical Transcriptionists	92	94	0.2%	2	2.2%	1	\$8.05	\$35,212
31-9095	Pharmacy Aides	84	76	-1.0%	-8	-9.5%	1	\$10.78	\$22,431
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	94	120	2.5%	26	27.7%	4	\$13.49	\$35,262
31-9099	Healthcare Support Workers, All Other	723	800	1.0%	77	10.7%	16	\$15.57	\$34,199
33-0000	Protective Service Occupations	29,269	34,136	1.6%	4,867	16.6%	1,174	\$27.36	\$50,390
33-1000	First-Line Supervisors/Managers, Protective Service Workers	1,853	2,003	0.8%	150	8.1%	92	***	***
33-1011	First-Line Supervisors/Managers of Correctional Officers	70	76	0.8%	6	8.6%	4	\$27.98	\$61,088
33-1012	First-Line Supervisors/Managers of Police and Detectives	1,067	1,142	0.7%	75	7.0%	55	\$28.07	\$88,860
33-1021	First-Line Supervisors/Managers of Fire Fighting and Prevention Workers	141	152	0.8%	11	7.8%	8	\$41.42	\$86,153
33-1099	First-Line Supervisors/Managers, Protective Service Workers, All Others	575	633	1.0%	58	10.1%	27	\$20.90	\$46,128
33-2000	Fire Fighting and Prevention Workers	638	699	0.9%	61	9.6%	26	***	***

Table 9 continued on the next page

Table 9: District of Columbia Employment by Major Occupational Detail, 2008 and Projected 2018* (continued)

SOC Code	Occupational Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018		Average Annual Total Openings	Average Hourly Wage**	Average Annual Wage**
		2008	2018		Numeric	Percent			
33-2011	Fire Fighters	592	649	0.9%	57	9.6%	24	\$29.02	\$60,360
33-2021	Fire Inspectors and Investigators	46	50	0.8%	4	8.7%	1	\$32.69	\$67,195
33-3000	Law Enforcement Workers	10,624	12,368	1.5%	1,744	16.4%	423	***	***
33-3012	Correctional Officers and Jailers	1,794	2,223	2.2%	429	23.9%	83	\$22.24	\$37,507
33-3021	Detectives and Criminal Investigators	3,579	4,514	2.3%	935	26.1%	167	\$36.56	\$88,142
33-3041	Parking Enforcement Workers	217	216	0.0%	-1	-0.5%	5	\$19.19	\$39,614
33-3051	Police and Sheriff's Patrol Officers	5,034	5,415	0.7%	381	7.6%	168	\$30.07	\$62,553
33-9000	Other Protective Service Workers	16,154	19,066	1.7%	2,912	18.0%	633	***	***
33-9011	Animal Control Workers	55	60	0.9%	5	9.1%	3	\$29.54	\$33,914
33-9021	Private Detectives and Investigators	375	475	2.4%	100	26.7%	18	\$14.25	\$32,228
33-9032	Security Guards	15,428	18,212	1.7%	2,784	18.0%	595	\$16.26	\$35,229
33-9091	Crossing Guards	114	122	0.7%	8	7.0%	4	\$12.58	\$26,316
33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service	19	22	1.5%	3	15.8%	1	\$10.03	\$22,638
33-9099	Protective Service Workers, All Other	163	175	0.7%	12	7.4%	12	\$26.59	\$50,637
35-0000	Food Preparation and Serving Related Occupations	41,866	45,363	0.8%	3,497	8.4%	1,847	\$7.74	\$24,578
35-1000	Supervisors, Food Preparation and Serving Workers	4,412	4,576	0.4%	164	3.7%	61	***	***
35-1011	Chefs and Head Cooks	1,671	1,647	-0.1%	-24	-1.4%	16	\$31.62	\$37,456
35-1012	First-Line Supervisors/Managers of Food Preparation and Serving Workers	2,741	2,929	0.7%	188	6.9%	45	\$13.49	\$35,958
35-2000	Cooks and Food Preparation Workers	9,939	10,672	0.7%	733	7.4%	362	***	***
35-2011	Cooks, Fast Food	739	801	0.8%	62	8.4%	25	\$14.53	\$20,099
35-2012	Cooks, Institution and Cafeteria	1,311	1,466	1.1%	155	11.8%	50	\$13.56	\$26,986
35-2013	Cooks, Private Household	15	15	0.0%	0	0.0%	0	***	***
35-2014	Cooks, Restaurant	3,771	4,069	0.8%	298	7.9%	127	\$11.89	\$26,776
35-2015	Cooks, Short Order	645	647	0.0%	2	0.3%	17	\$22.27	\$25,411
35-2019	Cooks, All Other	37	45	2.0%	8	21.6%	2	\$16.28	\$25,874
35-2021	Food Preparation Workers	3,421	3,629	0.6%	208	6.1%	144	\$10.76	\$23,140
35-3000	Food and Beverage Serving Workers	20,359	22,337	0.9%	1,978	9.7%	1,023	***	***
35-3011	Bartenders	2,348	2,505	0.6%	157	6.7%	100	\$10.95	\$23,634
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	6,813	7,828	1.4%	1,015	14.9%	247	\$12.46	\$21,885
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	1,687	1,839	0.9%	152	9.0%	139	\$12.29	\$20,178
35-3031	Waiters and Waitresses	8,144	8,727	0.7%	583	7.2%	508	\$10.27	\$24,590
35-3041	Food Servers, Nonrestaurant	1,367	1,438	0.5%	71	5.2%	30	\$11.05	\$25,102
35-9000	Other Food Preparation and Serving Related Workers	7,156	7,778	0.8%	622	8.7%	401	***	***
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	3,041	3,220	0.6%	179	5.9%	150	\$9.12	\$19,687
35-9021	Dishwashers	2,730	3,074	1.2%	344	12.6%	146	\$9.64	\$20,380

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Table 9: District of Columbia Employment by Major Occupational Detail, 2008 and Projected 2018* (continued)

SOC Code	Occupational Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018		Average Annual Total Openings	Average Hourly Wage**	Average Annual Wage**
		2008	2018		Numeric	Percent			
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	1,293	1,386	0.7%	93	7.2%	99	\$11.59	\$23,078
35-9099	Food Preparation and Serving Related Workers, All Other	92	98	0.6%	6	6.5%	6	\$16.07	\$29,351
37-0000	Building and Grounds Cleaning and Maintenance Occupations	31,551	34,841	1.0%	3,290	10.4%	882	\$12.49	\$25,878
37-1000	Supervisors, Building and Grounds Cleaning and Maintenance Worker	3,386	3,726	1.0%	340	10.0%	69	***	***
37-1011	First-Line Supervisors/Managers of Housekeeping and Janitorial Workers	3,226	3,554	1.0%	328	10.2%	67	\$17.20	\$34,774
37-1012	First-Line Supervisors/Managers of Landscaping, Lawn Service, and Groundskeeping	160	172	0.7%	12	7.5%	3	\$20.46	\$50,213
37-2000	Building Cleaning and Pest Control Workers	27,060	29,872	1.0%	2,812	10.4%	786	***	***
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	19,162	21,330	1.1%	2,168	11.3%	579	\$16.46	\$23,254
37-2012	Maids and Housekeeping Cleaners	7,834	8,469	0.8%	635	8.1%	205	\$12.24	\$28,469
37-2019	Building Cleaning Workers, All Other	***	***	***	***	***	***	***	***
37-2021	Pest Control Workers	***	***	***	***	***	***	***	***
37-3000	Grounds Maintenance Workers	1,105	1,243	1.2%	138	12.5%	27	***	***
37-3011	Landscaping and Groundskeeping Workers	1,048	1,179	1.2%	131	12.5%	26	\$19.37	\$31,438
37-3012	Pesticide Handlers, Sprayers, and Applicators, Vegetation	***	***	***	***	***	***	***	***
37-3013	Tree Trimmers and Pruners	***	***	***	***	***	***	***	***
37-3019	Grounds Maintenance Workers, All Other	***	***	***	***	***	***	***	***
39-0000	Personal Care and Service Occupations	14,009	15,739	1.2%	1,730	12.3%	532	\$17.76	\$31,397
39-1000	Supervisors, Personal Care and Service Workers	825	903	0.9%	78	9.5%	31	***	***
39-1011	Gaming Supervisors	***	***	***	***	***	***	***	***
39-1012	Slot Key Persons	***	***	***	***	***	***	***	***
39-1021	First-Line Supervisors/Managers of Personal Service Workers	825	903	0.9%	78	9.5%	31	\$26.55	\$46,202
39-2000	Animal Care and Service Workers	304	341	1.2%	37	12.2%	11	***	***
39-2011	Animal Trainers	***	***	***	***	***	***	***	***
39-2021	Nonfarm Animal Caretakers	296	331	1.1%	35	11.8%	10	\$12.78	\$23,946
39-3000	Entertainment Attendants and Related Workers	948	1,057	1.1%	109	11.5%	66	***	***
39-3021	Motion Picture Projectionists	25	21	-1.7%	-4	-16.0%	1	\$9.59	\$21,351
39-3031	Ushers, Lobby Attendants, and Ticket Takers	500	567	1.3%	67	13.4%	39	\$10.04	\$20,446
39-3091	Amusement and Recreation Attendants	269	295	0.9%	26	9.7%	17	\$12.70	\$25,051
39-3092	Costume Attendants	110	124	1.2%	14	12.7%	7	\$16.15	\$33,591
39-3093	Locker Room, Coatroom, and Dressing Room Attendants	32	37	1.5%	5	15.6%	3	\$10.22	\$18,689
39-3099	Entertainment Attendants and Related Workers, All Other	***	***	***	***	***	***	***	***
39-4000	Funeral Service Workers	***	***	***	***	***	***	***	***
39-4021	Funeral Attendants	***	***	***	***	***	***	***	***
39-5000	Personal Appearance Workers	2,285	2,561	1.1%	276	12.1%	61	***	***
39-5011	Barbers	514	534	0.4%	20	3.9%	10	\$7.56	\$15,724

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Table 9: District of Columbia Employment by Major Occupational Detail, 2008 and Projected 2018* (continued)

SOC Code	Occupational Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018		Average Annual Total Openings	Average Hourly Wage**	Average Annual Wage**
		2008	2018		Numeric	Percent			
39-5012	Hairdressers, Hairstylists, and Cosmetologists	1,442	1,653	1.4%	211	14.6%	42	\$19.28	\$40,092
39-5092	Manicurists and Pedicurists	78	86	1.0%	8	10.3%	2	\$13.06	\$27,193
39-5093	Shampooers	150	160	0.6%	10	6.7%	3	\$10.03	\$20,871
39-5094	Skin Care Specialists	89	116	2.7%	27	30.3%	4	\$14.92	\$30,494
39-6000	Transportation, Tourism, and Lodging Attendants	2,180	2,388	0.9%	208	9.5%	86	***	***
39-6011	Baggage Porters and Bellhops	594	630	0.6%	36	6.1%	19	\$12.23	\$27,573
39-6012	Concierges	1,050	1,179	1.2%	129	12.3%	40	\$17.13	\$29,269
39-6021	Tour Guides and Escorts	435	467	0.7%	32	7.4%	21	\$11.79	\$31,247
39-6031	Flight Attendants	***	***	***	***	***	***	***	***
39-6032	Transportation Attendants, Except Flight Attendants and Baggage Porters	***	***	***	***	***	***	***	***
39-9000	Other Personal Care and Service Workers	7,455	8,475	1.3%	1,020	13.7%	277	***	***
39-9011	Child Care Workers	3,057	3,294	0.7%	237	7.8%	114	\$9.04	\$22,468
39-9021	Personal and Home Care Aides	1,225	1,551	2.4%	326	26.6%	48	\$11.52	\$23,956
39-9031	Fitness Trainers and Aerobics Instructors	1,253	1,561	2.2%	308	24.6%	54	\$20.27	\$42,172
39-9032	Recreation Workers	970	1,071	1.0%	101	10.4%	28	\$17.89	\$34,205
39-9041	Residential Advisors	711	734	0.3%	23	3.2%	27	\$11.92	\$25,034
39-9099	Personal Care and Service Workers, All Other	239	264	1.0%	25	10.5%	8	\$15.68	\$35,240
41-0000	Sales and Related Occupations	30,592	32,151	0.5%	1,559	5.1%	1,020	\$12.78	\$42,507
41-1000	Supervisors, Sales Workers	4,053	4,112	0.1%	59	1.5%	92	***	***
41-1011	First-Line Supervisors/Managers of Retail Sales Workers	3,044	3,077	0.1%	33	1.1%	68	\$14.85	\$43,318
41-1012	First-Line Supervisors/Managers of Non-Retail Sales Workers	1,009	1,035	0.3%	26	2.6%	24	\$33.17	\$66,153
41-2000	Retail Sales Workers	13,825	14,345	0.4%	520	3.8%	544	***	***
41-2011	Cashiers	6,295	6,364	0.1%	69	1.1%	290	\$9.36	\$22,067
41-2021	Counter and Rental Clerks	850	852	0.0%	2	0.2%	23	\$10.66	\$26,126
41-2022	Parts Salespersons	52	50	-0.4%	-2	-3.8%	2	\$21.24	\$25,707
41-2031	Retail Salespersons	6,628	7,079	0.7%	451	6.8%	230	\$15.32	\$25,330
41-3000	Sales Representatives, Services	4,978	5,466	0.9%	488	9.8%	160	***	***
41-3011	Advertising Sales Agents	789	856	0.8%	67	8.5%	23	\$25.25	\$62,544
41-3021	Insurance Sales Agents	1,184	1,326	1.1%	142	12.0%	42	\$28.92	\$60,182
41-3031	Securities, Commodities, and Financial Services Sales Agents	1,118	1,180	0.5%	62	5.5%	40	\$42.79	\$103,032
41-3041	Travel Agents	783	904	1.4%	121	15.5%	18	\$19.63	\$38,036
41-3099	Sales Representatives, Services, All Other	1,104	1,200	0.8%	96	8.7%	37	\$19.91	\$70,477
41-4000	Sales Representatives, Wholesale and Manufacturing	2,464	2,771	1.2%	307	12.5%	88	***	***
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	1,014	1,207	1.8%	193	19.0%	43	\$32.06	\$96,865
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical Scientific Products	1,450	1,564	0.8%	114	7.9%	45	\$30.57	\$64,527

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Table 9: District of Columbia Employment by Major Occupational Detail, 2008 and Projected 2018* (continued)

SOC Code	Occupational Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018		Average Annual Total Openings	Average Hourly Wage**	Average Annual Wage**
		2008	2018		Numeric	Percent			
41-9000	Other Sales and Related Workers	5,272	5,457	0.3%	185	3.5%	136	***	***
41-9011	Demonstrators and Product Promoters	270	264	-0.2%	-6	-2.2%	8	\$26.99	\$58,844
41-9021	Real Estate Brokers	821	847	0.3%	26	3.2%	16	\$54.46	\$68,317
41-9022	Real Estate Sales Agents	2,121	2,302	0.8%	181	8.5%	53	\$37.67	\$77,925
41-9031	Sales Engineers	20	19	-0.5%	-1	-5.0%	1	\$49.48	\$102,908
41-9041	Telemarketers	707	578	-2.0%	-129	-18.2%	18	\$17.59	\$33,293
41-9099	Sales and Related Workers, All Other	1,333	1,447	0.8%	114	8.6%	41	\$30.54	\$51,001
43-0000	Office and Administrative Support Occupations	113,975	122,291	0.7%	8,316	7.3%	3,331	\$22.37	\$41,013
43-1000	Supervisors, Office and Administrative Support Workers	5,158	5,772	1.1%	614	11.9%	177	***	***
43-1011	First-Line Supervisors/Managers of Office and Administrative Support Workers	5,158	5,772	1.1%	614	11.9%	177	\$27.42	\$62,702
43-2000	Communications Equipment Operators	1,026	914	-1.1%	-112	-10.9%	21	***	***
43-2011	Switchboard Operators, Including Answering Service	937	832	-1.2%	-105	-11.2%	19	\$16.71	\$31,561
43-2021	Telephone Operators	***	***	***	***	***	***	***	***
43-2099	Communications Equipment Operators, All Other	68	59	-1.4%	-9	-13.2%	2	\$26.68	\$52,971
43-3000	Financial Clerks	10,748	11,883	1.0%	1,135	10.6%	326	***	***
43-3011	Bill and Account Collectors	747	897	1.8%	150	20.1%	29	\$18.13	\$36,400
43-3021	Billing and Posting Clerks and Machine Operators	1,947	2,283	1.6%	336	17.3%	66	\$17.61	\$42,387
43-3031	Bookkeeping, Accounting, and Auditing Clerks	5,361	5,998	1.1%	637	11.9%	128	\$24.92	\$43,795
43-3051	Payroll and Timekeeping Clerks	755	674	-1.1%	-81	-10.7%	18	\$21.07	\$46,859
43-3061	Procurement Clerks	376	403	0.7%	27	7.2%	15	\$17.10	\$44,664
43-3071	Tellers	1,562	1,628	0.4%	66	4.2%	71	\$11.65	\$24,239
43-4000	Information and Record Clerks	32,066	33,605	0.5%	1,539	4.8%	1,238	***	***
43-4011	Brokerage Clerks	146	142	-0.3%	-4	-2.7%	4	\$18.83	\$39,360
43-4021	Correspondence Clerks	131	128	-0.2%	-3	-2.3%	4	\$22.16	\$41,644
43-4031	Court, Municipal, and License Clerks	49	54	1.0%	5	10.2%	2	\$20.90	\$43,474
43-4041	Credit Authorizers, Checkers, and Clerks	37	36	-0.3%	-1	-2.7%	1	\$9.73	\$29,589
43-4051	Customer Service Representatives	7,613	9,163	1.9%	1,550	20.4%	395	\$8.94	\$33,897
43-4061	Eligibility Interviewers, Government Programs	529	582	1.0%	53	10.0%	17	\$17.68	\$45,955
43-4071	File Clerks	785	627	-2.2%	-158	-20.1%	19	\$10.40	\$31,272
43-4081	Hotel, Motel, and Resort Desk Clerks	795	912	1.4%	117	14.7%	39	\$14.05	\$27,622
43-4111	Interviewers, Except Eligibility and Loan	518	535	0.3%	17	3.3%	14	\$16.79	\$32,344
43-4121	Library Assistants, Clerical	1,371	1,571	1.4%	200	14.6%	77	\$10.32	\$26,830
43-4131	Loan Interviewers and Clerks	898	869	-0.3%	-29	-3.2%	22	\$7.98	\$34,195
43-4141	New Accounts Clerks	93	93	0.0%	0	0.0%	3	\$15.35	\$31,899
43-4151	Order Clerks	341	220	-4.3%	-121	-35.5%	10	\$15.12	\$33,632

Table 9 continued on the next page

Table 9: District of Columbia Employment by Major Occupational Detail, 2008 and Projected 2018* (continued)

SOC Code	Occupational Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018		Average Annual Total Openings	Average Hourly Wage**	Average Annual Wage**
		2008	2018		Numeric	Percent			
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	1,637	1,572	-0.4%	-65	-4.0%	46	\$22.91	\$44,267
43-4171	Receptionists and Information Clerks	8,330	9,434	1.3%	1,104	13.3%	335	\$19.33	\$31,808
43-4181	Reservation and Transportation Ticket Agents and Travel Clerks	573	619	0.8%	46	8.0%	18	\$14.79	\$33,277
43-4199	Information and Record Clerks, All Other	8,220	7,048	-1.5%	-1,172	-14.3%	233	\$19.87	\$41,460
43-5000	Material Recording, Scheduling, Dispatching, and Distributing Workers	5,513	5,389	-0.2%	-124	-2.2%	141	***	***
43-5011	Cargo and Freight Agents	19	19	0.0%	0	0.0%	0	\$22.69	\$40,807
43-5021	Couriers and Messengers	317	299	-0.6%	-18	-5.7%	7	\$14.58	\$29,914
43-5031	Police, Fire, and Ambulance Dispatchers	88	94	0.7%	6	6.8%	3	\$25.81	\$53,693
43-5032	Dispatchers, Except Police, Fire, and Ambulance	264	263	0.0%	-1	-0.4%	5	\$14.39	\$38,802
43-5051	Postal Service Clerks	210	186	-1.2%	-24	-11.4%	5	\$23.61	\$49,108
43-5052	Postal Service Mail Carriers	1,003	1,070	0.6%	67	6.7%	38	\$23.20	\$48,251
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	957	718	-2.8%	-239	-25.0%	9	\$23.29	\$48,452
43-5061	Production, Planning, and Expediting Clerks	473	506	0.7%	33	7.0%	15	\$19.85	\$44,144
43-5071	Shipping, Receiving, and Traffic Clerks	957	934	-0.2%	-23	-2.4%	24	\$26.22	\$39,099
43-5081	Stock Clerks and Order Fillers	1,220	1,295	0.6%	75	6.1%	36	\$16.21	\$30,773
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	5	5	0.0%	0	0.0%	0	\$15.12	\$37,626
43-6000	Secretaries and Administrative Assistants	35,637	39,515	1.0%	3,878	10.9%	868	***	***
43-6011	Executive Secretaries and Administrative Assistants	15,766	17,677	1.2%	1,911	12.1%	403	\$22.49	\$46,293
43-6012	Legal Secretaries	7,545	9,141	1.9%	1,596	21.2%	262	\$25.72	\$57,010
43-6013	Medical Secretaries	962	1,137	1.7%	175	18.2%	31	\$16.37	\$39,254
43-6014	Secretaries, Except Legal, Medical, and Executive	11,364	11,560	0.2%	196	1.7%	173	\$19.27	\$43,447
43-9000	Other Office and Administrative Support Workers	23,827	25,213	0.6%	1,386	5.8%	559	***	***
43-9011	Computer Operators	460	527	1.4%	67	14.6%	12	\$23.11	\$51,184
43-9021	Data Entry Keyers	1,328	1,262	-0.5%	-66	-5.0%	28	\$19.14	\$35,580
43-9022	Word Processors and Typists	2,609	2,521	-0.3%	-88	-3.4%	20	\$23.77	\$31,598
43-9031	Desktop Publishers	128	117	-0.9%	-11	-8.6%	2	\$23.77	\$57,730
43-9041	Insurance Claims and Policy Processing Clerks	298	313	0.5%	15	5.0%	6	\$22.43	\$45,826
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	1,446	1,273	-1.3%	-173	-12.0%	26	\$19.07	\$34,765
43-9061	Office Clerks, General	14,194	16,107	1.3%	1,913	13.5%	384	\$16.36	\$33,042
43-9071	Office Machine Operators, Except Computer	613	577	-0.6%	-36	-5.9%	20	\$17.21	\$31,330
43-9081	Proofreaders and Copy Markers	520	530	0.2%	10	1.9%	10	\$21.51	\$35,107
43-9111	Statistical Assistants	194	202	0.4%	8	4.1%	4	\$19.19	\$44,148
43-9199	Office and Administrative Support Workers, All Other	2,037	1,784	-1.3%	-253	-12.4%	47	\$12.15	\$35,768
45-0000	Farming, Fishing, and Forestry Occupations	112	123	0.9%	11	9.8%	4	\$22.02	\$45,806
45-1000	Supervisors, Farming, Fishing, and Forestry Workers	12	13	0.8%	1	8.3%	0	***	***

Table 9 continued on the next page

Table 9: District of Columbia Employment by Major Occupational Detail, 2008 and Projected 2018* (continued)

SOC Code	Occupational Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018		Average Annual Total Openings	Average Hourly Wage**	Average Annual Wage**
		2008	2018		Numeric	Percent			
45-1011	First-Line Supervisors/Managers of Farming, Fishing, and Forestry	12	13	0.8%	1	8.3%	0	\$15.31	\$43,329
45-2000	Agricultural Workers	100	110	1.0%	10	10.0%	4	***	***
45-2011	Agricultural Inspectors	***	***	***	***	***	***	***	***
45-2091	Agricultural Equipment Operators	***	***	***	***	***	***	***	***
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	***	***	***	***	***	***	***	***
45-2093	Farmworkers, Farm and Ranch Animals	98	107	0.9%	9	9.2%	4	\$22.11	\$45,990
45-2099	Agricultural Workers, All Other	***	***	***	***	***	***	***	***
47-0000	Construction and Extraction Occupations	13,087	13,749	0.5%	662	5.1%	301	\$26.93	\$45,759
47-1000	Supervisors, Construction and Extraction Workers	1,064	1,145	0.7%	81	7.6%	29	***	***
47-1011	First-Line Supervisors/Managers of Construction Trades and Extraction Workers	1,064	1,145	0.7%	81	7.6%	29	\$27.67	\$66,466
47-2000	Construction Trades Workers	10,920	11,447	0.5%	527	4.8%	241	***	***
47-2011	Boilermakers	***	***	***	***	***	***	***	***
47-2021	Brickmasons and Blockmasons	198	214	0.8%	16	8.1%	7	\$23.73	\$49,365
47-2022	Stonemasons	35	38	0.8%	3	8.6%	1	\$24.82	\$51,625
47-2031	Carpenters	1,674	1,720	0.3%	46	2.7%	26	\$20.57	\$45,684
47-2042	Floor Layers, Except Carpet, Wood, and Hard Tiles	***	***	***	***	***	***	***	***
47-2043	Floor Sanders and Finishers	***	***	***	***	***	***	***	***
47-2044	Tile and Marble Setters	57	58	0.2%	1	1.8%	2	\$19.47	\$40,488
47-2051	Cement Masons and Concrete Finishers	620	699	1.2%	79	12.7%	24	\$25.94	\$41,892
47-2061	Construction Laborers	3,043	3,467	1.3%	424	13.9%	62	\$18.99	\$30,022
47-2071	Paving, Surfacing, and Tamping Equipment Operators	23	24	0.4%	1	4.3%	0	\$23.73	\$31,425
47-2073	Operating Engineers and Other Construction Equipment Operators	197	207	0.5%	10	5.1%	4	\$20.13	\$47,488
47-2081	Drywall and Ceiling Tile Installers	231	232	0.0%	1	0.4%	3	\$26.22	\$46,261
47-2082	Tapers	28	28	0.0%	0	0.0%	0	\$20.07	\$41,757
47-2111	Electricians	1,466	1,396	-0.5%	-70	-4.8%	35	\$23.73	\$55,595
47-2121	Glaziers	***	***	***	***	***	***	***	***
47-2132	Insulation Workers, Mechanical	***	***	***	***	***	***	***	***
47-2141	Painters, Construction and Maintenance	750	775	0.3%	25	3.3%	16	\$20.41	\$42,591
47-2151	Pipelayers	48	56	1.6%	8	16.7%	2	\$19.46	\$40,466
47-2152	Plumbers, Pipefitters, and Steamfitters	1,229	1,161	-0.6%	-68	-5.5%	25	\$24.36	\$56,802
47-2161	Plasterers and Stucco Masons	155	163	0.5%	8	5.2%	4	\$23.39	\$48,284
47-2171	Reinforcing Iron and Rebar Workers	614	697	1.3%	83	13.5%	18	\$19.86	\$41,299
47-2181	Roofers	19	19	0.0%	0	0.0%	0	\$29.69	\$42,258
47-2211	Sheet Metal Workers	359	321	-1.1%	-38	-10.6%	9	\$31.70	\$53,646
47-2221	Structural Iron and Steel Workers	84	81	-0.4%	-3	-3.6%	1	\$23.48	\$48,335

Table 9 continued on the next page

Table 9: District of Columbia Employment by Major Occupational Detail, 2008 and Projected 2018* (continued)

SOC Code	Occupational Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018		Average Annual Total Openings	Average Hourly Wage**	Average Annual Wage**
		2008	2018		Numeric	Percent			
47-3000	Helpers, Construction Trades	597	636	0.6%	39	6.5%	16	***	***
47-3011	Helpers—Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	140	157	1.2%	17	12.1%	5	\$18.47	\$38,426
47-3012	Helpers—Carpenters	146	171	1.6%	25	17.1%	6	\$13.23	\$25,310
47-3013	Helpers—Electricians	159	157	-0.1%	-2	-1.3%	3	\$16.11	\$33,502
47-3014	Helpers—Painters, Paperhangers, Plasterers, and Stucco Masons	16	15	-0.6%	-1	-6.3%	0	\$15.12	\$21,801
47-3015	Helpers—Pipelayers, Plumbers, Pipefitters, and Steamfitters	44	43	-0.2%	-1	-2.3%	1	\$14.12	\$26,689
47-3019	Helpers, Construction Trades, All Other	88	90	0.2%	2	2.3%	2	\$14.78	\$28,784
47-4000	Other Construction and Related Workers	506	521	0.3%	15	3.0%	15	***	***
47-4011	Construction and Building Inspectors	289	315	0.9%	26	9.0%	9	\$53.13	\$73,104
47-4021	Elevator Installers and Repairers	69	60	-1.4%	-9	-13.0%	2	\$29.71	\$55,760
47-4031	Fence Erectors	***	***	***	***	***	***	***	***
47-4041	Hazardous Materials Removal Workers	42	39	-0.7%	-3	-7.1%	1	\$8.24	\$28,429
47-4051	Highway Maintenance Workers	16	17	0.6%	1	6.3%	0	\$22.07	\$45,903
47-4061	Rail-Track Laying and Maintenance Equipment Operators	***	***	***	***	***	***	***	\$45,989
47-4099	Construction and Related Workers, All Other	84	84	0.0%	0	0.0%	3	\$18.92	\$36,120
49-0000	Installation, Maintenance, and Repair Occupations	9,530	10,273	0.8%	743	7.8%	270	\$18.93	\$47,123
49-1000	Supervisors of Installation, Maintenance, and Repair Workers	893	909	0.2%	16	1.8%	25	***	***
49-1011	First-Line Supervisors/Managers of Mechanics, Installers, and Repairers	893	909	0.2%	16	1.8%	25	\$26.37	\$63,034
49-2000	Electrical and Electronic Equipment Mechanics, Installers, and Repairers	1,194	1,338	1.1%	144	12.1%	37	***	***
49-2011	Computer, Automated Teller, and Office Machine Repairers	570	695	2.0%	125	21.9%	23	\$26.95	\$46,034
49-2021	Radio Mechanics	***	***	***	***	***	***	***	***
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	105	97	-0.8%	-8	-7.6%	2	\$29.23	\$56,954
49-2092	Electric Motor, Power Tool, and Related Repairers	28	25	-1.1%	-3	-10.7%	1	\$23.09	\$48,017
49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipment	***	***	***	***	***	***	***	***
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	162	174	0.7%	12	7.4%	4	\$15.24	\$65,704
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	249	265	0.6%	16	6.4%	6	\$21.61	\$57,117
49-2096	Electronic Equipment Installers and Repairers, Motor Vehicles	***	***	***	***	***	***	***	***
49-2097	Electronic Home Entertainment Equipment Installers and Repairers	28	25	-1.1%	-3	-10.7%	1	\$18.01	\$37,464
49-2098	Security and Fire Alarm Systems Installers	35	40	1.3%	5	14.3%	2	\$25.41	\$48,710
49-3000	Vehicle and Mobile Equipment Mechanics, Installers	755	729	-0.3%	-26	-3.4%	18	***	***
49-3011	Aircraft Mechanics and Service Technicians	***	***	***	***	***	***	***	***
49-3021	Automotive Body and Related Repairers	90	71	-2.3%	-19	-21.1%	2	\$14.85	\$31,640
49-3023	Automotive Service Technicians and Mechanics	460	433	-0.6%	-27	-5.9%	9	\$18.35	\$41,913
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	77	83	0.8%	6	7.8%	3	\$19.98	\$45,265
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	27	28	0.4%	1	3.7%	1	\$29.83	\$37,868

Table 9 continued on the next page

Table 9: District of Columbia Employment by Major Occupational Detail, 2008 and Projected 2018* (continued)

SOC Code	Occupational Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018		Average Annual Total Openings	Average Hourly Wage**	Average Annual Wage**
		2008	2018		Numeric	Percent			
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	***	***	***	***	***	***	***	***
49-3091	Bicycle Repairers	57	69	1.9%	12	21.1%	2	\$10.09	\$20,995
49-3093	Tire Repairers and Changers	***	***	***	***	***	***	***	***
49-9000	Other Installation, Maintenance, and Repair Occupations	6,688	7,297	0.9%	609	9.1%	191	***	***
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	176	151	-1.5%	-25	-14.2%	3	\$26.02	\$54,444
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installation	409	431	0.5%	22	5.4%	9	\$23.89	\$53,182
49-9031	Home Appliance Repairers	***	***	***	***	***	***	***	***
49-9041	Industrial Machinery Mechanics	181	202	1.1%	21	11.6%	5	\$26.45	\$55,025
49-9042	Maintenance and Repair Workers, General	4,278	4,867	1.3%	589	13.8%	125	\$15.71	\$41,470
49-9043	Maintenance Workers, Machinery	113	117	0.3%	4	3.5%	2	\$27.14	\$48,270
49-9051	Electrical Power-Line Installers and Repairers	96	117	2.0%	21	21.9%	5	\$29.34	\$47,988
49-9052	Telecommunications Line Installers and Repairers	634	548	-1.4%	-86	-13.6%	10	\$24.89	\$51,788
49-9062	Medical Equipment Repairers	179	210	1.6%	31	17.3%	8	\$11.93	\$36,106
49-9069	Precision Instrument and Equipment Repairers, All Other	***	***	***	***	***	***	***	***
49-9094	Locksmiths and Safe Repairers	100	112	1.1%	12	12.0%	3	\$20.33	\$48,776
49-9096	Riggers	***	***	***	***	***	***	***	***
49-9098	Helpers—Installation, Maintenance, and Repair Workers	286	303	0.6%	17	5.9%	16	\$14.81	\$31,911
49-9099	Installation, Maintenance, and Repair Workers, All Other	125	132	0.5%	7	5.6%	3	\$20.99	\$54,638
51-0000	Production Occupations	7,650	7,388	-0.3%	-262	-3.4%	159	\$17.69	\$43,375
51-1000	Supervisors, Production Workers	551	506	-0.8%	-45	-8.2%	7	***	***
51-1011	First-Line Supervisors/Managers of Production and Operating Workers	551	506	-0.8%	-45	-8.2%	7	\$31.86	\$56,675
51-2000	Assemblers and Fabricators	104	112	0.7%	8	7.7%	3	***	***
51-2023	Electromechanical Equipment Assemblers	***	***	***	***	***	***	***	***
51-2041	Structural Metal Fabricators and Fitters	67	74	1.0%	7	10.4%	2	\$14.31	\$29,764
51-2092	Team Assemblers	36	37	0.3%	1	2.8%	1	\$8.87	\$22,709
51-3000	Food Processing Workers	767	767	0.0%	0	0.0%	24	***	***
51-3011	Bakers	408	381	-0.7%	-27	-6.6%	11	\$15.42	\$28,296
51-3021	Butchers and Meat Cutters	202	202	0.0%	0	0.0%	7	\$15.02	\$31,417
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	13	14	0.7%	1	7.7%	0	\$19.33	\$40,200
51-4000	Metal Workers and Plastic Workers	512	493	-0.4%	-19	-3.7%	12	***	***
51-4041	Machinists	159	156	-0.2%	-3	-1.9%	2	\$30.06	***
51-4061	Model Makers, Metal and Plastic	17	18	0.6%	1	5.9%	0	\$38.23	\$28,775
51-4121	Welders, Cutters, Solderers, and Brazers	319	304	-0.5%	-15	-4.7%	10	\$23.55	\$38,212
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	8	6	-2.8%	-2	-25.0%	0	\$8.41	\$50,084
51-4193	Plating and Coating Machine Setters, Operators, and Tenders, Metal & Plastic	***	***	***	***	***	***	***	***

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Table 9: District of Columbia Employment by Major Occupational Detail, 2008 and Projected 2018* (continued)

SOC Code	Occupational Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018		Average Annual Total Openings	Average Hourly Wage**	Average Annual Wage**
		2008	2018		Numeric	Percent			
51-4199	Metal Workers and Plastic Workers, All Other	***	***	***	***	***	***	***	***
51-5000	Printing Workers	2,440	2,291	-0.6%	-149	-6.1%	34	***	***
51-5011	Bindery Workers	302	292	-0.3%	-10	-3.3%	4	\$12.97	\$41,057
51-5012	Bookbinders	62	66	0.6%	4	6.5%	1	***	***
51-5021	Job Printers	639	573	-1.1%	-66	-10.3%	2	\$13.87	\$56,103
51-5022	Prepress Technicians and Workers	505	435	-1.5%	-70	-13.9%	6	\$19.64	\$81,666
51-5023	Printing Machine Operators	932	925	-0.1%	-7	-0.8%	20	\$16.49	\$27,996
51-6000	Textile, Apparel, and Furnishings Workers	868	812	-0.7%	-56	-6.5%	13	***	***
51-6011	Laundry and Dry-Cleaning Workers	642	612	-0.5%	-30	-4.7%	11	\$10.62	\$61,059
51-6021	Pressers, Textile, Garment, and Related Materials	141	127	-1.0%	-14	-9.9%	1	***	***
51-6031	Sewing Machine Operators	***	***	***	***	***	***	***	***
51-6041	Shoe and Leather Workers and Repairers	***	***	***	***	***	***	***	***
51-6051	Sewers, Hand	***	***	***	***	***	***	***	***
51-6052	Tailors, Dressmakers, and Custom Sewers	57	52	-0.9%	-5	-8.8%	1	\$13.11	\$21,224
51-6093	Upholsterers	4	3	-2.8%	-1	-25.0%	0	\$12.64	\$30,613
51-7000	Woodworkers	234	222	-0.5%	-12	-5.1%	5	***	***
51-7011	Cabinetmakers and Bench Carpenters	99	88	-1.2%	-11	-11.1%	2	\$28.14	\$26,292
51-7021	Furniture Finishers	12	10	-1.8%	-2	-16.7%	0	***	***
51-7099	Woodworkers, All Other	123	124	0.1%	1	0.8%	3	\$17.18	\$47,662
51-8000	Plant and System Operators	993	1,068	0.7%	75	7.6%	31	***	\$36,348
51-8013	Power Plant Operators	173	161	-0.7%	-12	-6.9%	6	\$28.15	\$40,420
51-8021	Stationary Engineers and Boiler Operators	408	442	0.8%	34	8.3%	10	***	***
51-8031	Water and Liquid Waste Treatment Plant and System Operators	260	302	1.5%	42	16.2%	10	\$25.98	\$58,540
51-8099	Plant and System Operators, All Other	152	163	0.7%	11	7.2%	5	\$27.60	\$58,613
51-9000	Other Production Occupations	1,181	1,117	-0.6%	-64	-5.4%	29	***	***
51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Machines	20	20	0.0%	0	0.0%	0	\$17.76	\$57,411
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	111	115	0.4%	4	3.6%	2	***	***
51-9081	Dental Laboratory Technicians	88	97	1.0%	9	10.2%	3	\$21.55	\$53,486
51-9082	Medical Appliance Technicians	***	***	***	***	***	***	***	***
51-9083	Ophthalmic Laboratory Technicians	16	15	-0.6%	-1	-6.3%	0	\$14.97	\$59,284
51-9111	Packaging and Filling Machine Operators and Tenders	263	249	-0.5%	-14	-5.3%	4	\$8.41	\$35,153
51-9122	Painters, Transportation Equipment	***	***	***	***	***	***	***	***
51-9123	Painting, Coating, and Decorating Workers	48	51	0.6%	3	6.3%	1	\$17.05	\$20,018
51-9131	Photographic Process Workers	78	101	2.6%	23	29.5%	4	\$18.29	\$37,392
51-9132	Photographic Processing Machine Operators	243	173	-3.3%	-70	-28.8%	6	\$12.86	\$36,667

Table 9 continued on the next page

Table 9: District of Columbia Employment by Major Occupational Detail, 2008 and Projected 2018* (continued)

SOC Code	Occupational Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018		Average Annual Total Openings	Average Hourly Wage**	Average Annual Wage**
		2008	2018		Numeric	Percent			
51-9193	Cooling and Freezing Equipment Operators and Tenders	***	***	***	***	***	***	***	***
51-9194	Etchers and Engravers	18	18	0.0%	0	0.0%	0	\$57.20	\$21,025
51-9198	Helpers—Production Workers	56	65	1.5%	9	16.1%	2	\$12.18	\$118,987
51-9199	Production Workers, All Other	200	175	-1.3%	-25	-12.5%	5	\$20.52	\$16,373
53-0000	Transportation and Material Moving Occupations	16,886	17,922	0.6%	1,036	6.1%	536	\$10.15	\$25,339
53-1000	Supervisors, Transportation and Material Moving Workers	521	524	0.1%	3	0.6%	10	***	***
53-1021	First-Line Supervisors/Managers of Helpers, Laborers, and Material	146	154	0.5%	8	5.5%	4	\$21.88	\$35,357
53-1031	First-Line Supervisors/Managers of Transportation and Material-Movers	375	370	-0.1%	-5	-1.3%	7	\$21.09	***
53-2000	Air Transportation Workers	304	334	0.9%	30	9.9%	13	***	***
53-2011	Airline Pilots, Copilots, and Flight Engineers	***	***	***	***	***	***	***	***
53-2012	Commercial Pilots	***	***	***	***	***	***	***	***
53-2021	Air Traffic Controllers	268	293	0.9%	25	9.3%	12	\$74.70	\$105,388
53-2022	Airfield Operations Specialists	15	16	0.6%	1	6.7%	1	\$28.09	\$58,088
53-3000	Motor Vehicle Operators	7,935	8,655	0.9%	720	9.1%	212	***	***
53-3011	Ambulance Drivers and Attendants, Except Emergency Medical Technicians	***	***	***	***	***	***	***	***
53-3021	Bus Drivers, Transit and Intercity	734	801	0.9%	67	9.1%	20	***	***
53-3022	Bus Drivers, School	1,105	1,310	1.7%	205	18.6%	40	\$11.50	\$24,830
53-3031	Driver/Sales Workers	342	340	-0.1%	-2	-0.6%	6	\$15.40	\$38,408
53-3032	Truck Drivers, Heavy and Tractor-Trailer	643	658	0.2%	15	2.3%	14	\$23.38	\$23,923
53-3033	Truck Drivers, Light or Delivery Services	1,957	2,013	0.3%	56	2.9%	41	\$15.16	\$32,674
53-3041	Taxi Drivers and Chauffeurs	1,752	2,027	1.5%	275	15.7%	59	\$18.58	\$41,548
53-3099	Motor Vehicle Operators, All Other	1,396	1,499	0.7%	103	7.4%	34	\$14.60	\$32,451
53-5000	Water Transportation Workers	193	209	0.8%	16	8.3%	10	***	***
53-5011	Sailors and Marine Oilers	64	68	0.6%	4	6.3%	3	\$19.09	\$37,255
53-5021	Captains, Mates, and Pilots of Water Vessels	47	50	0.6%	3	6.4%	2	***	***
53-5022	Motorboat Operators	58	65	1.1%	7	12.1%	3	\$16.87	\$32,436
53-5031	Ship Engineers	24	26	0.8%	2	8.3%	1	\$38.41	\$71,376
53-6000	Other Transportation Workers	3,894	4,085	0.5%	191	4.9%	156	***	***
53-6011	Bridge and Lock Tenders	***	***	***	***	***	***	***	***
53-6021	Parking Lot Attendants	2,300	2,343	0.2%	43	1.9%	87	***	***
53-6031	Service Station Attendants	95	104	0.9%	9	9.5%	5	\$9.12	\$50,373
53-6041	Traffic Technicians	***	***	***	***	***	***	***	***
53-6051	Transportation Inspectors	290	339	1.6%	49	16.9%	12	\$22.42	\$19,190
53-6099	Transportation Workers, All Other	1,202	1,292	0.7%	90	7.5%	52	\$12.15	\$52,828
53-7000	Material Moving Workers	4,039	4,115	0.2%	76	1.9%	134	***	***

Table 9 continued on the next page

Table 9: District of Columbia Employment by Major Occupational Detail, 2008 and Projected 2018* (continued)

SOC Code	Occupational Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018		Average Annual Total Openings	Average Hourly Wage**	Average Annual Wage**
		2008	2018		Numeric	Percent			
53-7011	Conveyor Operators and Tenders	***	***	***	***	***	***	***	***
53-7021	Crane and Tower Operators	51	54	0.6%	3	5.9%	1	***	***
53-7032	Excavating and Loading Machine and Dragline Operators	84	90	0.7%	6	7.1%	3	\$21.67	\$41,311
53-7051	Industrial Truck and Tractor Operators	136	140	0.3%	4	2.9%	4	\$22.63	\$49,092
53-7061	Cleaners of Vehicles and Equipment	201	166	-1.9%	-35	-17.4%	7	\$8.27	\$44,577
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	2,301	2,294	0.0%	-7	-0.3%	74	\$21.37	\$39,782
53-7064	Packers and Packagers, Hand	316	318	0.1%	2	0.6%	5	\$9.15	\$32,701
53-7072	Pump Operators, Except Wellhead Pumpers	16	17	0.6%	1	6.3%	1	\$21.35	\$29,690
53-7081	Refuse and Recyclable Material Collectors	920	1,026	1.1%	106	11.5%	38	\$24.02	\$24,204
53-7199	Material Moving Workers, All Other	***	***	***	***	***	***	***	***

Note: *District of Columbia 2008-2018 Industry and Occupational Projections

**Bureau of Labor Statistics, Occupational Employment Statistics (OES), May 2009 survey

***Not available or nondisclosable.

Source: D.C. Department of Employment Services, Office of Labor Market Research and Information

Professional and Related Occupations

The employment of professional and related occupations is expected to increase by 15.3 percent, resulting in 30,337 new jobs by 2018. Within professional and related occupations, computer and mathematical occupations subgroup is projected to create over 10,500 new jobs and as a group will grow 2.5 times as fast as the average for all occupations. It is anticipated that computer specialists are expected to account for 97 percent of this growth, increasing by almost 10,200 jobs: computer software application engineers and network systems and data communications analysts are both expected to grow by over 1,800 jobs; network and computer systems administrators is expected to add 1,767 new jobs; and computer systems analysts is expected to add 1,387 new jobs by 2018.

Legal occupations are expected to add over 6,200 new jobs, representing a growth rate of 11.7 percent over the projection period. It is anticipated that lawyers will account for 3,700 of these jobs or 60 percent, and paralegals and legal assistants will account for 2,010 or 32 percent.

Education, training, and library occupations are expected to add 5,669 new jobs, and arts, design, entertainment, sports, and media occupations are expected to create over 3,359 new jobs by 2018.

Service Occupations

Employment in service occupations is projected to increase by 12.6 percent from 2008 to 2018, resulting in 15,925 new jobs. It is estimated that about three out of 10 of these jobs will

come from investigation and security services industry sector and more than two out of 10 will be in food services and drinking places industry subsector.

Among the service occupations, the largest number of new jobs is expected in protective service occupations. With more than 4,867 new jobs expected, employment in protective service occupations is projected to increase by 17 percent. Much of this job growth will be the result of increased demand in security services: security guards occupation is estimated to add 2,784 jobs, and law enforcement occupation is projected to add 1,744 jobs by 2018.

Food preparation and serving-related occupations are estimated to add 3,497 new jobs within the 10-year projection period, representing an increase of 8.4 percent. It is estimated that 57 percent in this occupational group will come from food, beverage, and serving workers with a projected increase of 1,978 new jobs by 2018.

Building and grounds cleaning and maintenance occupations are expected to grow by 3,290 jobs over the projection period, representing a growth rate of 10.4 percent. It is estimated about six in 10 of these new jobs are expected from janitors, and cleaners, except maids and housekeeping, which are expected to increase by 2,168 jobs.

Healthcare support occupations are expected to add 2,541 new jobs over the 10-year projection period, representing a growth rate of 16 percent. Much of this growth will be in home health

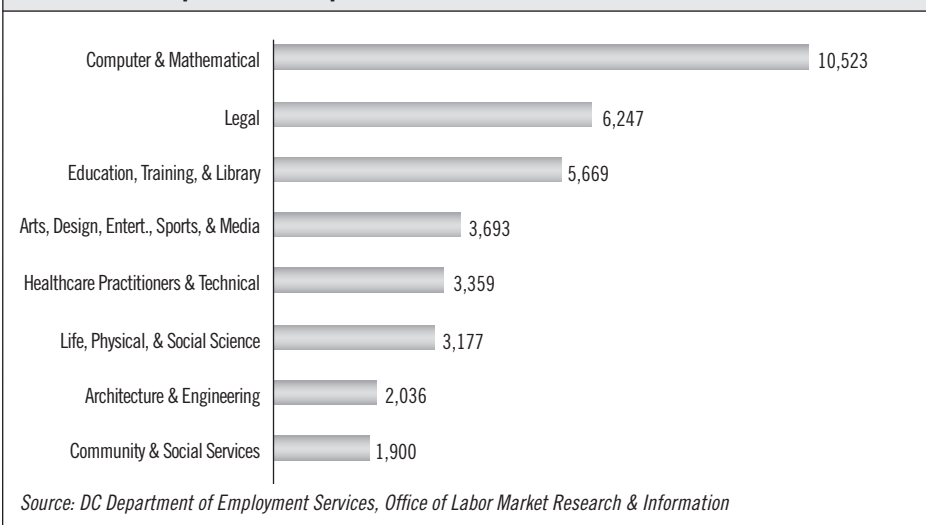
Table 10: District of Columbia Employment by Occupational Group within the Professional and Related Occupations, and Management Occupations Group, 2008 and Projected 2018*

SOC Code	Occupational Matrix Code and Title	Employment		Change, 2008 – 2018	
		2008	2018	Numeric	Percent
15-2900	Professional & Related Occupations	199,001	229,358	30,357	15.3
15-0000	Computer and Mathematical Occupations	38,412	48,935	10,523	27.4
17-0000	Architecture and Engineering Occupations	14,867	16,903	2,036	13.7
19-0000	Life, Physical, and Social Science Occupations	26,750	29,927	3,177	11.9
21-0000	Community and Social Services Occupations	11,677	13,577	1,900	16.3
23-0000	Legal Occupations	53,524	59,771	6,247	11.7
25-0000	Education, Training, and Library Occupations	41,090	46,759	5,669	13.8
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations	40,107	43,800	3,693	9.2
29-0000	Healthcare Practitioners and Technical Occupations	26,098	29,457	3,359	12.9
11-1300	Mgt, Business, & Financial Operations Occupations	216,848	235,112	18,264	8.4
11-0000	Management Occupations	113,477	118,432	4,955	4.4
13-0000	Business and Financial Operations Occupations	103,371	116,680	13,309	12.9

Note: *District of Columbia 2008-2018 Industry and Occupational Projections

Source: D.C. Department of Employment Services, Office of Labor Market Research and Information

Figure 9: Employment Change by Occupations within Professional and Related Occupations Group, 2008 – 2018



aides, which is expected to be among the fastest growing occupation with a growth rate of over 54 percent and adding 4,179 new jobs by 2018. Nursing aides, orderlies, and attendants is expected to grow by 3,421 jobs at a growth rate of 13.2 percent; while the medical assistant occupation is expected to grow by 1,657 new jobs at a growth rate of 30 percent by 2018.

Personal care and service occupations are expected to add 1,730 new jobs over the projection period, representing a growth rate of 12.3 percent. Three occupations, entertainment attendants and related worker, personal appearance worker and transportation, tourism, and lodging attendants are expected to account for the bulk the new job growth with a combined employment of over 6,000 by 2018.

Office and Administrative Support Occupations

With a projected growth rate of 7.3 percent, this occupational group is expected to add over 8,300 new jobs by 2018. Secretaries and administrative assistants are expected to add 3,878; other office and administrative workers are estimated to add 1,386; information and record clerks are estimated to add 1,539; and financial clerks are expected to add 1,135 new jobs over the projection period.

Within the service occupations, sales and related occupations are estimated to add 1,559; transportation and material moving are expected to add 1,036; installation, and maintenance repair are expected to add 743, and construction and extraction is expected to add 662 new jobs over the 10-year projection period. The only occupational group projected to decline over the projection period is production which is expected to decline by 3.4 percent and losing 262 jobs by 2018.

Table 11: District of Columbia High-Demand Occupations, 2008 and Projected 2018*

SOC Code	Occupational Title	Occupational Group	Average Annual Total Openings	Average Annual Wage**	Average Hourly Wage**	Training Code****
23-1011	Lawyers	Professional & Related Occupations	1,163	\$147,214	68.7	1
11-1021	General and Operations Managers	Management, Business, & Financial	939	\$113,533	51.08	4
33-9032	Security Guards	Service Occupations	595	\$35,229	16.26	11
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	Service Occupations	579	\$23,254	16.46	11
13-1111	Management Analysts	Management, Business, & Financial	560	\$82,317	42.75	4
35-3031	Waiters and Waitresses	Service Occupations	508	\$24,590	10.27	11
13-2011	Accountants and Auditors	Management, Business, & Financial	467	\$74,769	22.42	5
27-3031	Public Relations Specialists	Professional & Related Occupations	466	\$91,147	39.61	5
43-6011	Executive Secretaries and Administrative Assistants	Office and Administrative Support	403	\$46,293	22.49	8
43-4051	Customer Service Representatives	Office and Administrative Support	395	\$33,897	8.94	10
43-9061	Office Clerks, General	Office and Administrative Support	384	\$33,042	16.36	11
43-4171	Receptionists and Information Clerks	Office and Administrative Support	335	\$31,808	19.33	11
41-2011	Cashiers	Sales and Related Occupations	290	\$22,067	9.36	11
23-2011	Paralegals and Legal Assistants	Professional & Related Occupations	286	\$60,357	32.58	6
29-1111	Registered Nurses	Professional & Related Occupations	286	\$69,309	28.44	6
43-6012	Legal Secretaries	Office and Administrative Support	262	\$57,010	25.72	6
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	Service Occupations	247	\$21,885	12.46	11
15-1071	Network and Computer Systems Administrators	Professional & Related Occupations	246	\$73,656	33.78	5
15-1081	Network Systems and Data Communications Analysts	Professional & Related Occupations	230	\$77,810	38.79	5
41-2031	Retail Salespersons	Sales and Related Occupations	230	\$25,330	15.32	11
15-1051	Computer Systems Analysts	Professional & Related Occupations	227	\$77,769	35.04	5
15-1031	Computer Software Engineers, Applications	Professional & Related Occupations	216	\$81,966	42.35	5
15-1041	Computer Support Specialists	Professional & Related Occupations	212	\$54,136	26.03	6
11-3031	Financial Managers	Management, Business, & Financial	206	\$113,352	26.85	4
37-2012	Maids and Housekeeping Cleaners	Service Occupations	205	\$28,469	12.24	11
19-3021	Market Research Analysts	Professional & Related Occupations	202	\$66,971	24.03	5
11-1011	Chief Executives	Management, Business, & Financial	198	\$170,410	76.01	4
19-3094	Political Scientists	Professional & Related Occupations	192	\$102,954	39.84	3
43-1011	First-Line Supervisors/Managers of Office and Administrative Support	Office and Administrative Support	177	\$62,702	27.42	8
31-1011	Home Health Aides	Service Occupations	174	\$21,555	10.36	11
43-6014	Secretaries, Except Legal, Medical, and Executive	Office and Administrative Support	173	\$43,447	19.27	10
33-3051	Police and Sheriff's Patrol Officers	Service Occupations	168	\$62,553	30.07	9
33-3021	Detectives and Criminal Investigators	Service Occupations	167	\$88,142	36.56	8
27-3043	Writers and Authors	Professional & Related Occupations	158	\$73,710	32.71	5

Table 11 continued on the next page

Table 11: District of Columbia High-Demand Occupations, 2008 and Projected 2018* (continued)

SOC Code	Occupational Title	Occupational Group	Average Annual Total Openings	Average Annual Wage**	Average Hourly Wage**	Training Code****
19-3011	Economists	Professional & Related Occupations	150	\$110,243	66.55	3
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	Service Occupations	150	\$19,687	9.12	11
35-9021	Dishwashers	Service Occupations	146	\$20,380	9.64	11
11-3011	Administrative Services Managers	Management, Business, & Financial	144	\$74,932	44.31	4
35-2021	Food Preparation Workers	Service Occupations	144	\$23,140	10.76	11
11-3021	Computer and Information Systems Managers	Management, Business, & Financial	142	\$120,766	52.76	4
27-3041	Editors	Professional & Related Occupations	141	\$63,261	35.93	5
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	Service Occupations	139	\$20,178	12.29	11
13-1071	Employment, Recruitment, and Placement Specialists	Management, Business, & Financial	131	\$53,577	30.18	5
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	Management, Business, & Financial	130	\$77,579	27.83	9
13-1041	Compliance Officers, Except Agriculture, Construction, Health & Safety, & Transp.	Management, Business, & Financial	128	\$72,301	34.04	9
43-3031	Bookkeeping, Accounting, and Auditing Clerks	Office and Administrative Support	128	\$43,795	24.92	10
35-2014	Cooks, Restaurant	Service Occupations	127	\$26,776	11.89	9
49-9042	Maintenance and Repair Workers, General	Installation, Maintenance, and Repair	125	\$41,470	15.71	10
25-9041	Teacher Assistants	Professional & Related Occupations	119	\$24,074	***	11
39-9011	Child Care Workers	Service Occupations	114	\$22,468	9.04	11
25-2021	Elementary School Teachers, Except Special Education	Professional & Related Occupations	112	\$59,724	***	5
15-1032	Computer Software Engineers, Systems Software	Professional & Related Occupations	106	\$88,873	40.25	5
21-1093	Social and Human Service Assistants	Professional & Related Occupations	103	\$30,999	14.55	10
35-3011	Bartenders	Service Occupations	100	\$23,634	10.95	11

Note: *District of Columbia 2008-2018 Industry and Occupational Projections. High-Demand Occupations excludes occupational titles with ALL OTHER.

**Bureau of Labor Statistics, Occupational Employment Statistics (OES), May 2009 survey

***Not available or nondisclosable.

****See Appendix I

Source: D.C. Department of Employment Services, Office of Labor Market Research and Information

Figure 10: D.C. High-Demand Occupations, Projected 2018

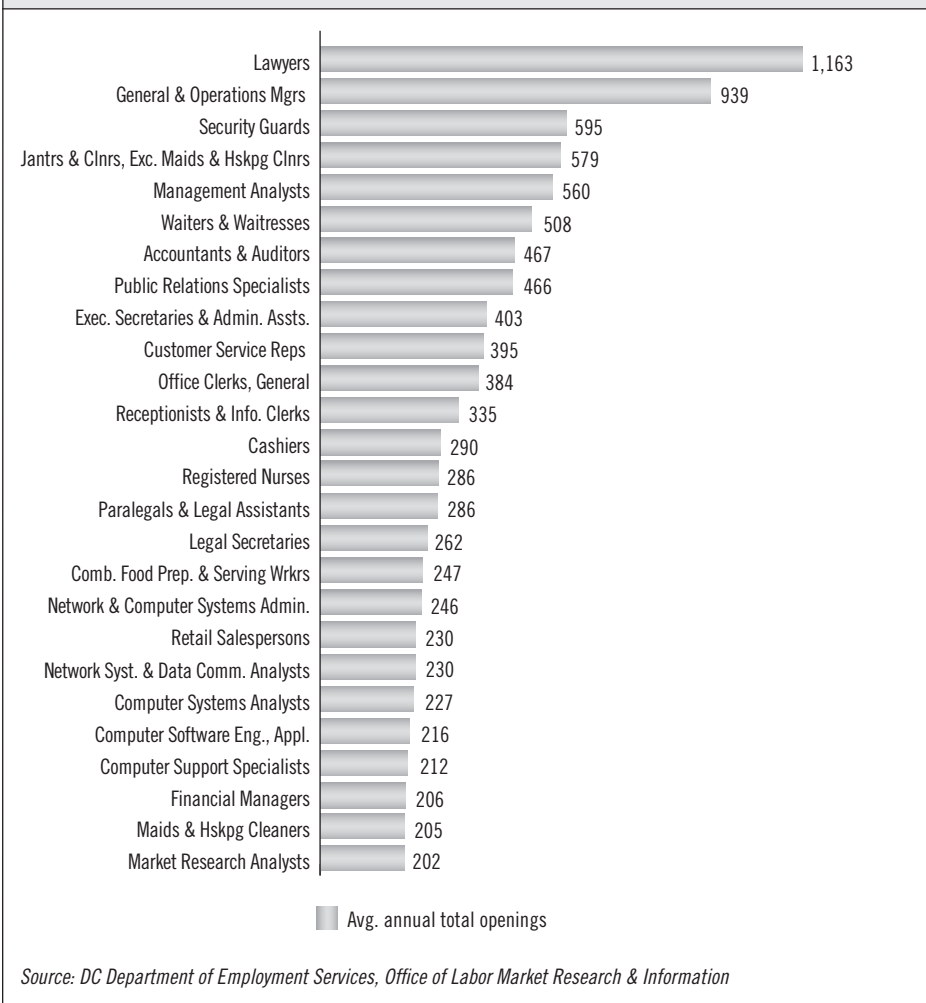


Table 12: District of Columbia Non-Degree High-Demand Occupations, 2008 and Projected 2018*

SOC Code	Occupation	Occupational Group	Average Annual Total Openings	Training Code**
33-9032	Security Guards	Service Occupations	595	11
37-2011	Janitors & Cleaners, Except Maids & Housekeeping Cleaner	Service Occupations	579	11

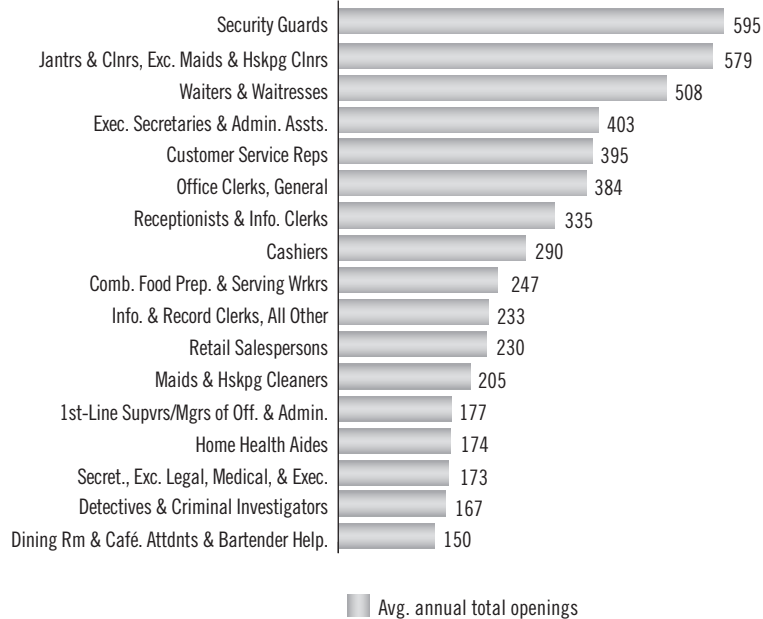
Table 12: District of Columbia Non-Degree High-Demand Occupations, 2008 and Projected 2018* (continued)

SOC Code	Occupation	Occupational Group	Average Annual Total Openings	Training Code**
35-3031	Waiters & Waitresses	Service Occupations	508	11
43-6011	Executive Secretaries & Administrative Assistants	Office & Admin. Support	403	8
43-4051	Customer Service Representatives	Office & Admin. Support	395	10
43-9061	Office Clerks, General	Office & Admin. Support	384	11
43-4171	Receptionists & Information Clerks	Office & Admin. Support	335	11
41-2011	Cashiers	Sales & Related Occupations	290	11
35-3021	Combined Food Preparation & Serving Workers, Incl. Fast food	Service Occupations	247	11
43-4199	Information & Record Clerks, All Other	Office & Admin. Support	233	11
41-2031	Retail Salespersons	Sales & Related Occupations	230	11
37-2012	Maids & Housekeeping Cleaners	Service Occupations	205	11
43-1011	First-Line Supervisors/Managers of Office & Administrative	Office & Admin. Support	177	8
31-1011	Home Health Aides	Service Occupations	174	11
43-6014	Secretaries, Except Legal, Medical, & Executive	Office & Admin. Support	173	10
33-3051	Police & Sheriff's Patrol Officers	Service Occupations	168	9
33-3021	Detectives & Criminal Investigators	Service Occupations	167	8
35-9011	Dining Room & Cafeteria Attendants & Bartender Helpers	Service Occupations	150	11
35-9021	Dishwashers	Service Occupations	146	11
35-2021	Food Preparation Workers	Service Occupations	144	11
35-3022	Counter Attendants, Cafeteria, Food Concession, & Coffee Shop	Service Occupations	139	11
13-1023	Purchasing Agents, Except Wholesale, Retail, & Farm Produce	Mgt., Business, & Financial	130	9
13-1041	Compliance Officers, Ex. Agric., Constr., Health & Safety, & Transport.	Mgt., Business, & Financial	128	9
43-3031	Bookkeeping, Accounting, & Auditing Clerks	Office & Admin. Support	128	10
35-2014	Cooks, Restaurant	Service Occupations	127	9
49-9042	Maintenance & Repair Workers, General	Inst., Maintenance, & Repair	125	10
25-9041	Teacher Assistants	Prof. & Related Occupations	119	11
39-9011	Child Care Workers	Service Occupations	114	11
21-1093	Social & Human Service Assistants	Prof. & Related Occupations	103	10
35-3011	Bartenders	Service Occupations	100	11

Note: *District of Columbia 2008-2018 Industry and Occupational Projections

**See Appendix I

Source: D.C. Department of Employment Services, Office of Labor Market Research and Information

Figure 11: D.C. Non-Degree High-Demand Occupations, Projected 2018

Source: DC Department of Employment Services, Office of Labor Market Research & Information

Table 13: District of Columbia Degree-Requiring High-Demand Occupations, 2008 and Projected 2018*

SOC Code	Occupational	Occupational Group	Average Annual Total Openings	Training Code**
23-1011	Lawyers	Professional & Related Occupations	1,163	1
13-1199	Business Operations Specialists, All Other	Mgt., Business, & Financial Occupations	1,103	5
11-1021	General and Operations Managers	Mgt., Business, & Financial Occupations	939	4
13-1111	Management Analysts	Mgt., Business, & Financial Occupations	560	4
13-2011	Accountants and Auditors	Mgt., Business, & Financial Occupations	467	5
27-3031	Public Relations Specialists	Professional & Related Occupations	466	5
15-1099	Computer Specialists, All Other	Professional & Related Occupations	301	6
23-2011	Paralegals and Legal Assistants	Professional & Related Occupations	286	6
29-1111	Registered Nurses	Professional & Related Occupations	286	6
43-6012	Legal Secretaries	Office and Administrative Support	262	6

Table 13: District of Columbia Degree-Requiring High-Demand Occupations, 2008 and Projected 2018* (continued)

SOC Code	Occupational	Occupational Group	Average Annual Total Openings	Training Code**
15-1071	Network and Computer Systems Administrators	Professional & Related Occupations	246	5
15-1081	Network Systems and Data Communications Analysts	Professional & Related Occupations	230	5
19-3099	Social Scientists and Related Workers, All Other	Professional & Related Occupations	229	3
15-1051	Computer Systems Analysts	Professional & Related Occupations	227	5
15-1031	Computer Software Engineers, Applications	Professional & Related Occupations	216	5
13-1079	HR, Training, and Labor Relations Specialists	Mgt., Business, & Financial Occupations	214	5
15-1041	Computer Support Specialists	Professional & Related Occupations	212	6
11-3031	Financial Managers	Mgt., Business, & Financial Occupations	206	4
19-3021	Market Research Analysts	Professional & Related Occupations	202	5
11-1011	Chief Executives	Mgt., Business, & Financial Occupations	198	4
19-3094	Political Scientists	Professional & Related Occupations	192	3
25-3099	Teachers and Instructors, All Other	Professional & Related Occupations	160	5
27-3043	Writers and Authors	Professional & Related Occupations	158	5
19-3011	Economists	Professional & Related Occupations	150	3
11-3011	Administrative Services Managers	Mgt., Business, & Financial Occupations	144	4
11-3021	Computer and Information Systems Managers	Mgt., Business, & Financial Occupations	142	4
27-3041	Editors	Professional & Related Occupations	141	5
13-1071	Employment, Recruitment, and Placement Specialists	Mgt., Business, & Financial Occupations	131	5
25-2021	Elementary School Teachers, Excl. Special Education	Professional & Related Occupations	112	5
15-1032	Computer Software Engineers, Systems Software	Professional & Related Occupations	106	5
17-2199	Engineers, All Other	Professional & Related Occupations	101	5

Note: *District of Columbia 2008-2018 Industry and Occupational Projections

**See Appendix 1

Source: D.C. Department of Employment Services, Office of Labor Market Research and Information

Figure 12: D.C. Degree-Requiring High-Demand Occupations, Projected 2018

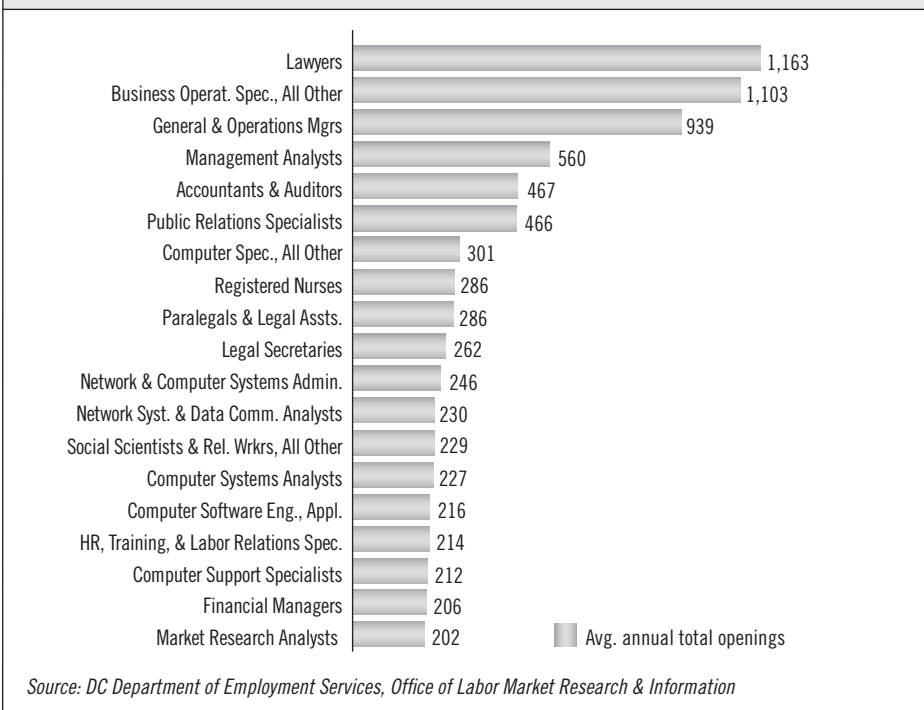


Table 14: District of Columbia Top 50 Fastest Growing Occupations, 2008 and Projected 2018*

SOC	Occupational Title	Occupational Group	Employment		Change, 2008 – 2018		Training Code**
			2008	2018	Numeric	Percent	
15-1081	Network Systems and Data Communications Analysts	Professional & Related Occupations	2,733	4,546	1,813	66.34	5
17-2031	Biomedical Engineers	Professional & Related Occupations	53	85	32	60.38	5
15-1031	Computer Software Engineers, Applications	Professional & Related Occupations	3,149	5,036	1,887	59.92	5
31-1011	Home Health Aides	Service Occupations	2,706	4,179	1,473	54.43	11
15-1032	Computer Software Engineers, Systems Software	Professional & Related Occupations	1,936	2,836	900	46.49	5
15-1071	Network and Computer Systems Administrators	Professional & Related Occupations	4,135	5,902	1,767	42.73	5
17-2061	Computer Hardware Engineers	Professional & Related Occupations	832	1,175	343	41.23	5
13-2061	Financial Examiners	Management, Business, & Financial	437	609	172	39.36	5
17-2112	Industrial Engineers	Professional & Related Occupations	309	422	113	36.57	5
29-2021	Dental Hygienists	Professional & Related Occupations	439	599	160	36.45	6
25-1194	Vocational Education Teachers, Post-secondary	Professional & Related Occupations	206	279	73	35.44	2
25-3021	Self-Enrichment Education Teachers	Professional & Related Occupations	1,228	1,657	429	34.93	8

Table 14 continued on the next page

Table 14: District of Columbia Top 50 Fastest Growing Occupations, 2008 and Projected 2018*(continued)

SOC	Occupational Title	Occupational Group	Employment		Change, 2008 – 2018		Training Code**
			2008	2018	Numeric	Percent	
15-1051	Computer Systems Analysts	Professional & Related Occupations	4,069	5,456	1,387	34.09	5
29-2056	Veterinary Technologists and Technicians	Professional & Related Occupations	39	52	13	33.33	6
15-1061	Database Administrators	Professional & Related Occupations	1,450	1,924	474	32.69	5
19-1042	Medical Scientists, Except Epidemiologists	Professional & Related Occupations	515	683	168	32.62	2
31-9091	Dental Assistants	Service Occupations	485	638	153	31.55	10
29-1067	Surgeons	Professional & Related Occupations	336	438	102	30.36	1
39-5094	Skin Care Specialists	Service Occupations	89	116	27	30.34	7
31-9092	Medical Assistants	Service Occupations	1,275	1,657	382	29.96	10
51-9131	Photographic Process Workers	Production Occupations	78	101	23	29.49	11
13-1041	Compliance Officers, Except Agriculture, Construction, Health & Safety, & Transportation	Professional & Related Occupations	3,223	4,166	943	29.26	9
19-1021	Biochemists and Biophysicists	Professional & Related Occupations	80	103	23	28.75	2
29-1062	Family and General Practitioners	Professional & Related Occupations	488	627	139	28.48	1
19-3022	Survey Researchers	Professional & Related Occupations	820	1,053	233	28.41	5
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	Service Occupations	94	120	26	27.66	11
13-2052	Personal Financial Advisors	Management, Business, & Financial	966	1,231	265	27.43	5
21-1093	Social and Human Service Assistants	Professional & Related Occupations	2,109	2,687	578	27.41	10
29-1131	Veterinarians	Professional & Related Occupations	55	70	15	27.27	1
29-1121	Audiologists	Professional & Related Occupations	59	75	16	27.12	1
33-9021	Private Detectives and Investigators	Service Occupations	375	475	100	26.67	8
13-1071	Employment, Recruitment, and Placement Specialists	Management, Business, & Financial	2,483	3,144	661	26.62	5
23-2091	Court Reporters	Professional & Related Occupations	977	1,237	260	26.61	7
39-9021	Personal and Home Care Aides	Service Occupations	1,225	1,551	326	26.61	11
13-1073	Training and Development Specialists	Management, Business, & Financial	1,346	1,703	357	26.52	5
13-2071	Loan Counselors	Management, Business, & Financial	99	125	26	26.26	5
33-3021	Detectives and Criminal Investigators	Service Occupations	3,579	4,514	935	26.12	8
21-1092	Probation Officers and Correctional Treatment Specialists	Professional & Related Occupations	131	165	34	25.95	5
13-1072	Compensation, Benefits, and Job Analysis Specialists	Management, Business, & Financial	1,297	1,628	331	25.52	5
37-3019	Grounds Maintenance Workers, All Other	Service Occupations	16	20	4	25	11
13-2051	Financial Analysts	Management, Business, & Financial	2,121	2,648	527	24.85	5
39-9031	Fitness Trainers and Aerobics Instructors	Service Occupations	1,253	1,561	308	24.58	7
29-2099	Health Technologists and Technicians, All Other	Professional & Related Occupations	402	500	98	24.38	7
17-3025	Environmental Engineering Technicians	Professional & Related Occupations	62	77	15	24.19	6

Table 14 continued on the next page

Table 14: District of Columbia Top 50 Fastest Growing Occupations, 2008 and Projected 2018* (continued)

SOC	Occupational Title	Occupational Group	Employment		Change, 2008 – 2018		Training Code**
			2008	2018	Numeric	Percent	
33-3012	Correctional Officers and Jailers	Service Occupations	1,794	2,223	429	23.91	10
19-3021	Market Research Analysts	Professional & Related Occupations	4,042	4,976	934	23.11	5
29-2055	Surgical Technologists	Professional & Related Occupations	570	701	131	22.98	7
25-2041	Special Education Teachers, Preschool, Kindergarten, and Elementary	Professional & Related Occupations	227	279	52	22.91	5
13-1081	Logisticians	Management, Business, & Financial	822	1,010	188	22.87	5
17-2011	Aerospace Engineers	Professional & Related Occupations	449	549	100	22.27	5
31-2022	Physical Therapist Aides	Service Occupations	81	99	18	22.22	11
49-2011	Computer, Automated Teller, and Office Machine Repairers	Installation, Maintenance, and Repair	570	695	125	21.93	7
17-3026	Industrial Engineering Technicians	Professional & Related Occupations	32	39	7	21.88	6
49-9051	Electrical Power-Line Installers and Repairers	Installation, Maintenance, and Repair	96	117	21	21.88	9
17-3023	Electrical and Electronic Engineering Technicians	Professional & Related Occupations	476	580	104	21.85	6
35-2019	Cooks, All Other	Service Occupations	37	45	8	21.62	10
25-1121	Art, Drama, and Music Teachers, Post-secondary	Professional & Related Occupations	797	969	172	21.58	2
19-4092	Forensic Science Technicians	Professional & Related Occupations	191	232	41	21.47	5
19-1012	Food Scientists and Technologists	Professional & Related Occupations	80	97	17	21.25	5
43-6012	Legal Secretaries	Office and Administrative Support	7,545	9,141	1,596	21.15	6
13-1011	Agents and Business Managers of Artists, Performers, and Athletes	Management, Business, & Financial	76	92	16	21.05	4
49-3091	Bicycle Repairers	Installation, Maintenance, and Repair	57	69	12	21.05	10
11-2022	Sales Managers	Management, Business, & Financial	1,297	1,569	272	20.97	4
31-2021	Physical Therapist Assistants	Service Occupations	68	82	14	20.59	6

Note: *District of Columbia 2008-2018 Industry and Occupational Projections

**See Appendix 1

Source: D.C. Department of Employment Services, Office of Labor Market Research and Information

Table 15: District of Columbia Declining Occupations by Growth Rate, 2008 and Projected 2018*

SOC	Occupational Title	Employment		Change, 2008 – 2018		Training Code**
		2008	2018	Numeric	Percent	
43-4151	Order Clerks	341	220	-121	-35.5	11
51-9132	Photographic Processing Machine Operators	243	173	-70	-28.8	11
43-5053	Postal Service Mail Sorters, Processors, & Processing Mach. Oper.	957	718	-239	-25	11
49-3021	Automotive Body and Related Repairers	90	71	-19	-21.1	9
43-4071	File Clerks	785	627	-158	-20.1	11
41-9041	Telemarketers	707	578	-129	-18.2	11
19-3093	Historians	542	444	-98	-18.1	3
53-7061	Cleaners of Vehicles and Equipment	201	166	-35	-17.4	11
29-2081	Opticians, Dispensing	261	219	-42	-16.1	9
43-4199	Information and Record Clerks, All Other	8,220	7,048	-1,172	-14.3	11
49-9012	Control and Valve Installers and Repairers, Except Mechanical	176	151	-25	-14.2	10
51-5022	Prepress Technicians and Workers	505	435	-70	-13.9	7
49-9052	Telecommunications Line Installers and Repairers	634	548	-86	-13.6	9
43-2099	Communications Equipment Operators, All Other	68	59	-9	-13.2	11
47-4021	Elevator Installers and Repairers	69	60	-9	-13	9
51-9199	Production Workers, All Other	200	175	-25	-12.5	10
43-9199	Office and Administrative Support Workers, All Other	2,037	1,784	-253	-12.4	11
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	1,446	1,273	-173	-12	11
43-5051	Postal Service Clerks	210	186	-24	-11.4	11
43-2011	Switchboard Operators, Including Answering Service	937	832	-105	-11.2	11
51-7011	Cabinetmakers and Bench Carpenters	99	88	-11	-11.1	9
43-3051	Payroll and Timekeeping Clerks	755	674	-81	-10.7	10
47-2211	Sheet Metal Workers	359	321	-38	-10.6	9
51-5021	Job Printers	639	573	-66	-10.3	9
51-6021	Pressers, Textile, Garment, and Related Materials	141	127	-14	-9.9	11
43-9031	Desktop Publishers	128	117	-11	-8.6	7
51-1011	First-Line Supervisors/Managers of Production and Operating	551	506	-45	-8.2	8
49-2022	Telecommunications Equip. Installers & Repairers, Excl. Line Inst.	105	97	-8	-7.6	7
27-3011	Radio and Television Announcers	189	175	-14	-7.4	9
29-1041	Optometrists	95	88	-7	-7.4	1
47-4041	Hazardous Materials Removal Workers	42	39	-3	-7.1	10
51-8013	Power Plant Operators	173	161	-12	-6.9	9

Table 15 continued on the next page

Table 15: District of Columbia Declining Occupations by Growth Rate, 2008 and Projected 2018* (continued)

SOC	Occupational Title	Employment		Change, 2008 – 2018		Training Code**
		2008	2018	Numeric	Percent	
51-3011	Bakers	408	381	-27	-6.6	9
19-2043	Hydrologists	76	71	-5	-6.6	3
29-2054	Respiratory Therapy Technicians	47	44	-3	-6.4	7
27-1023	Floral Designers	80	75	-5	-6.3	11
11-3071	Transportation, Storage, and Distribution Managers	373	351	-22	-5.9	8
43-9071	Office Machine Operators, Except Computer	613	577	-36	-5.9	11
49-3023	Automotive Service Technicians and Mechanics	460	433	-27	-5.9	7
43-5021	Couriers and Messengers	317	299	-18	-5.7	11
47-2152	Plumbers, Pipefitters, and Steamfitters	1,229	1,161	-68	-5.5	9
51-9111	Packaging and Filling Machine Operators and Tenders	263	249	-14	-5.3	11
43-9021	Data Entry Keyers	1,328	1,262	-66	-5	10
47-2111	Electricians	1,466	1,396	-70	-4.8	9
51-4121	Welders, Cutters, Solderers, and Brazers	319	304	-15	-4.7	7
51-6011	Laundry and Dry-Cleaning Workers	642	612	-30	-4.7	10
13-2053	Insurance Underwriters	118	113	-5	-4.2	5
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	1,637	1,572	-65	-4	11
41-2022	Parts Salespersons	52	50	-2	-3.8	10
11-2011	Advertising and Promotions Managers	663	639	-24	-3.6	4
47-2221	Structural Iron and Steel Workers	84	81	-3	-3.6	10
43-9022	Word Processors and Typists	2,609	2,521	-88	-3.4	10
51-5011	Bindery Workers	302	292	-10	-3.3	11
43-4131	Loan Interviewers and Clerks	898	869	-29	-3.2	11
27-3022	Reporters and Correspondents	2,456	2,384	-72	-2.9	5
43-4011	Brokerage Clerks	146	142	-4	-2.7	10
43-5071	Shipping, Receiving, and Traffic Clerks	957	934	-23	-2.4	11
19-3011	Economists	5,277	5,154	-123	-2.3	3
27-4032	Film and Video Editors	129	126	-3	-2.3	5
43-4021	Correspondence Clerks	131	128	-3	-2.3	11
41-9011	Demonstrators and Product Promoters	270	264	-6	-2.2	10
51-4041	Machinists	159	156	-3	-1.9	9
35-1011	Chefs and Head Cooks	1,671	1,647	-24	-1.4	8
53-1031	First-Line Supervisors/Managers of Transportation and Material-Movers	375	370	-5	-1.3	8

Table 15 continued on the next page

Table 15: District of Columbia Declining Occupations by Growth Rate, 2008 and Projected 2018* (continued)

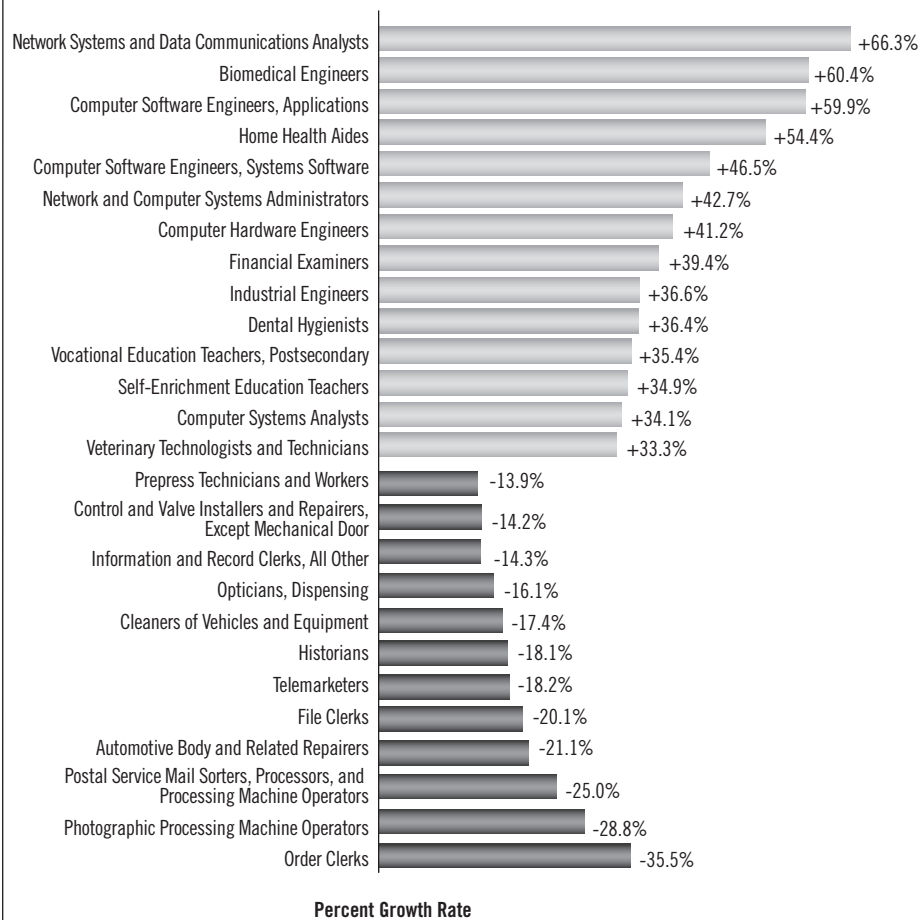
SOC	Occupational Title	Employment		Change, 2008 – 2018		Training Code**
		2008	2018	Numeric	Percent	
47-3013	Helpers—Electricians	159	157	-2	-1.3	11
29-2011	Medical and Clinical Laboratory Technologists	753	745	-8	-1.1	5
27-2031	Dancers	96	95	-1	-1	9
11-1011	Chief Executives	7,039	6,969	-70	-1	4
31-1013	Psychiatric Aides	363	360	-3	-0.8	11
51-5023	Printing Machine Operators	932	925	-7	-0.8	10
53-3031	Driver/Sales Workers	342	340	-2	-0.6	11
27-4012	Broadcast Technicians	810	806	-4	-0.5	6
33-3041	Parking Enforcement Workers	217	216	-1	-0.5	11
43-5032	Dispatchers, Except Police, Fire, and Ambulance	264	263	-1	-0.4	10
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	2,301	2,294	-7	-0.3	11

Note: *District of Columbia 2008-2018 Industry and Occupational Projections

**See Appendix 1

Source: D.C. Department of Employment Services, Office of Labor Market Research and Information

Figure 13: D.C. Fastest Growing and Declining Occupations, Projected 2018



Source: DC Department of Employment Services, Office of Labor Market Research & Information

Table 16: District of Columbia Occupations with Strongest Numerical Growth, 2008 and Projected 2018*

SOC	Occupational Title	Occupational Group	Employment		Change, 2008 – 2018		Training Code**
			2008	2018	Numeric	Percent	
23-2011	Paralegals and Legal Assistants	Professional & Related Occupations	7,518	9,528	2,010	26.74	6
15-1031	Computer Software Engineers, Applications	Professional & Related Occupations	3,149	5,036	1,887	59.92	5
15-1081	Network Systems and Data Communications Analysts	Professional & Related Occupations	2,733	4,546	1,813	66.34	5
15-1071	Network and Computer Systems Administrators	Professional & Related Occupations	4,135	5,902	1,767	42.73	5
43-6012	Legal Secretaries	Office and Administrative Support	7,545	9,141	1,596	21.15	6
31-1011	Home Health Aides	Service Occupations	2,706	4,179	1,473	54.43	11
15-1051	Computer Systems Analysts	Professional & Related Occupations	4,069	5,456	1,387	34.09	5
13-1041	Compliance Officers, Except Agriculture, Construction, Health	Professional & Related Occupations	3,223	4,166	943	29.26	9
33-3021	Detectives and Criminal Investigators	Service Occupations	3,579	4,514	935	26.12	4
19-3021	Market Research Analysts	Professional & Related Occupations	4,042	4,976	934	23.11	5
15-1032	Computer Software Engineers, Systems Software	Professional & Related Occupations	1,936	2,836	900	46.49	5
19-3099	Social Scientists and Related Workers, All Other	Professional & Related Occupations	3,197	3,886	689	21.55	3
13-1071	Employment, Recruitment, and Placement Specialists	Management, Business, & Financial	2,483	3,144	661	26.62	5
21-1093	Social and Human Service Assistants	Professional & Related Occupations	2,109	2,687	578	27.41	10
13-2051	Financial Analysts	Management, Business, & Financial	2,121	2,648	527	24.85	5
15-1061	Database Administrators	Professional & Related Occupations	1,450	1,924	474	32.69	5
25-3021	Self-Enrichment Education Teachers	Professional & Related Occupations	1,228	1,657	429	34.93	4
33-3012	Correctional Officers and Jailers	Service Occupations	1,794	2,223	429	23.91	10
31-9092	Medical Assistants	Service Occupations	1,275	1,657	382	29.96	10
13-1073	Training and Development Specialists	Management, Business, & Financial	1,346	1,703	357	26.52	5
17-2061	Computer Hardware Engineers	Professional & Related Occupations	832	1,175	343	41.23	5
13-1072	Compensation, Benefits, and Job Analysis Specialists	Management, Business, & Financial	1,297	1,628	331	25.52	5
39-9021	Personal and Home Care Aides	Service Occupations	1,225	1,551	326	26.61	11
39-9031	Fitness Trainers and Aerobics Instructors	Service Occupations	1,253	1,561	308	24.58	7
11-2022	Sales Managers	Management, Business, & Financial	1,297	1,569	272	20.97	4
13-2052	Personal Financial Advisors	Management, Business, & Financial	966	1,231	265	27.43	5
23-2091	Court Reporters	Professional & Related Occupations	977	1,237	260	26.61	7
19-3022	Survey Researchers	Professional & Related Occupations	820	1,053	233	28.41	5
13-1081	Logisticians	Management, Business, & Financial	822	1,010	188	22.87	5
13-2061	Financial Examiners	Management, Business, & Financial	437	609	172	39.36	5
25-1121	Art, Drama, and Music Teachers, Post-secondary	Professional & Related Occupations	797	969	172	21.58	2
19-1042	Medical Scientists, Except Epidemiologists	Professional & Related Occupations	515	683	168	32.62	2

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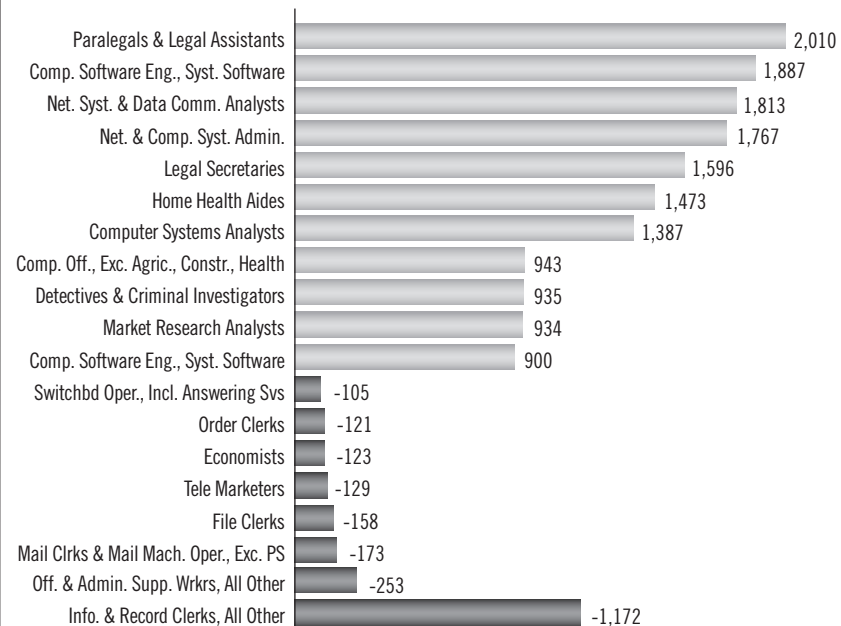
Table 16: District of Columbia Occupations with Strongest Numerical Growth, 2008 and Projected 2018* (continued)

SOC	Occupational Title	Occupational Group	Employment		Change, 2008 – 2018		Training Code**
			2008	2018	Numeric	Percent	
29-2021	Dental Hygienists	Professional & Related Occupations	439	599	160	36.45	6
31-9091	Dental Assistants	Service Occupations	485	638	153	31.55	10
29-1062	Family and General Practitioners	Professional & Related Occupations	488	627	139	28.48	1
29-2055	Surgical Technologists	Professional & Related Occupations	570	701	131	22.98	7
49-2011	Computer, Automated Teller, and Office Machine Repairers	Installation, Maintenance, and Repair	570	695	125	21.93	7
17-2112	Industrial Engineers	Professional & Related Occupations	309	422	113	36.57	5
17-3023	Electrical and Electronic Engineering Technicians	Professional & Related Occupations	476	580	104	21.85	6
29-1067	Surgeons	Professional & Related Occupations	336	438	102	30.36	1
33-9021	Private Detectives and Investigators	Service Occupations	375	475	100	26.67	4
17-2011	Aerospace Engineers	Professional & Related Occupations	449	549	100	22.27	5

Note: *District of Columbia 2008-2018 Industry and Occupational Projections

**See Appendix 1

Figure 14: D.C. Occupations with the Largest Change in Employment, 2008 and Projected 2018



Source: DC Department of Employment Services, Office of Labor Market Research & Information

Table 17: District of Columbia Declining Occupations Numerically, 2008 and Projected 2018*

SOC	Occupational Title	Employment		Change		Training Code**
		2008	2018	Numeric	Percent	
43-4199	Information and Record Clerks, All Other	8,220	7,048	-1,172	-14.3	11
43-9199	Office and Administrative Support Workers, All Other	2,037	1,784	-253	-12.4	11
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	957	718	-239	-25	11
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	1,446	1,273	-173	-12	11
43-4071	File Clerks	785	627	-158	-20.1	11
41-9041	Telemarketers	707	578	-129	-18.2	11
19-3011	Economists	5,277	5,154	-123	-2.3	3
43-4151	Order Clerks	341	220	-121	-35.5	11
43-2011	Switchboard Operators, Including Answering Service	937	832	-105	-11.2	11
19-3093	Historians	542	444	-98	-18.1	3
43-9022	Word Processors and Typists	2,609	2,521	-88	-3.4	10
49-9052	Telecommunications Line Installers and Repairers	634	548	-86	-13.6	9
43-3051	Payroll and Timekeeping Clerks	755	674	-81	-10.7	10
27-3022	Reporters and Correspondents	2,456	2,384	-72	-2.9	5
51-9132	Photographic Processing Machine Operators	243	173	-70	-28.8	11
51-5022	Prepress Technicians and Workers	505	435	-70	-13.9	7
47-2111	Electricians	1,466	1,396	-70	-4.8	9

Note: *District of Columbia 2008-2018 Industry and Occupational Projections

**See Appendix 1

Source: D.C. Department of Employment Services, Office of Labor Market Research and Information

Occupational Projection by Education or Training Category, 2008-2018

BLS has developed a skills taxonomy that assigns each occupation to an education or training that represents the most significant source of post-secondary education or training among workers in the occupation. The categories range from “short-term on the job training” to “first professional degree.” Occupations are classified into one of 11 categories based on analyses of the occupation’s usual education and training requirements identified while developing information to present in the Occupational Outlook Handbook. (See Appendix 1.)

In 2008, over 55 percent of the jobs in the District were in occupations that required at least a post-secondary award or a degree; and it is projected that occupations in such categories will account for almost 56 percent of all new job openings from 2008 to 2018. (See Table 11.) Occupations that require a bachelor’s degree accounted for the highest share of employment in 2008 (22 percent), with employment of 169,823 jobs; the employment share is expected to increase to 23 percent, with employment of 197,329 by 2018. Also, employment in occupations in the bachelor’s degree category, with a projected growth rate of over 33 percent, is expected to increase more rapidly than employment in any other education or training category over the 10-year projection period. This fast growth will largely be driven by high technology occupations in professional and related services, for example, network systems and data communications analysts; biomedical engineers; computer software engineers, applications; computer software engineers, systems software; network and computer systems administrators; and computer hardware engineers, which all are expected to have growth rates of over 40 percent. (See Table 5).

In general, occupations in lower education or training categories have lower pay than those in higher categories. Although the median annual wage for all occupations was \$54,318 in May 2009, occupations in the categories involving a post-secondary award or degree or extensive work experience in a related occupation had much higher median wages. (See Table 11 and figure 11). Occupations in the short-term on the job category, for example, had median wage annual wages of \$30,921, while occupations that generally require a first professional degree had median annual wages of \$111,229. Also, from the May 2009 Occupational and Employment Survey (OES), the District of Columbia had: total average annual wage of \$66,417, mean hourly wage of \$38.32, average entry wage of \$26,567, and average experience wage of \$86,342, which is greater than the total average wage for the District. (See Table 2.) This means that, despite the high cost of living in the District, a job prospect starting at an entry level can work up the ladder with education and experience. In the District of Columbia, education does indeed pay: occupations that require at least a bachelor’s degree had median annual wages of at least \$69,000; made up almost 46% of all jobs in 2008; and will account for at least 47 percent of annual job openings between 2008 and 2018. Nevertheless, 44% of the projected annual job openings will require some work experience or on-the-job training. (See Table 11.)

Table 18: Percent Employed in Major Occupational Groups, by Education or Training Category, 2008*

Percent of employment distributed by education or training category	All occupational groups	Standard occupational classification code									
		11-1300	15-2900	31-3900	41-0000	43-0000	45-0000	47-0000	49-0000	51-0000	53-0000
		Mgmt, bus, & fin.	Prof. & related	Services	Sales & related	Office & admin supp	Farm, fish & forestry	Constr. & extract	Install, maintenance, & repair	Production	Transp. & material moving
Total 2008 employment	787,156	216,848	199,001	125,951	30,592	113,975	***	13,087	9,530	7,650	16,886
EDUCATION OR TRAINING CATEGORIES											
First professional degree	46,514	0	23.4	0	0	0	***	0	0	0	0
Doctoral degree	18,748	0	9.4	0	0	0	***	0	0	0	0
Master's degree	27,854	0	14	0	0	0	***	0	0	0	0
Bachelor's+, work exp.	97,678	43.4	1.7	0	0	0	***	0	0	0	0
Bachelor's degree	169,823	35.8	4.6	0	3.7	0	***	0	0	0	0
Associate degree	46,663	0.1	19.4	0.1	0	6.6	***	0	1.9	0	0
Post-secondary Voc. training	22,681	0	4.4	5.3	13.4	0.1	***	0	22.5	10.9	0.1
Work experience	85,366	16.8	0.6	11.5	27.6	0	***	10.3	9.4	7.2	5.2
Long-term on-the-job training	33,646	3.3	3.5	7.5	0	18.4	***	45.5	10.9	34.2	2
Moderate-term on-the-job training	62,321	0.5	2.6	5.2	8	28.8	***	39	51	30.4	11.9
Short-term on-the-job training	175,245	0	1.9	70.4	47.3	46	***	4.9	3.4	15	80.8
Total, all occupations	100	27.5	25.3	16	3.9	14.5	***	1.7	1.2	1	2.1

Note: *District of Columbia 2008-2018 Industry and Occupational Projections

***Not available or nondisclosable.

Source: D.C. Department of Employment Services, Office of Labor Market Research and Information

Table 19: District of Columbia Employment and Total Job Openings by Education and Training, 2008 and Projected 2018*

Education/Training Requirement	Employment		Percent Share		Change, 2008 – 2018		Average Annual Total Job Openings		Median Annual Wage
	2008	2018	2008	2018	Numeric	Percent	Numeric	Percent	
Total, All Occupations	787,156	870,014	100	100	82,858	100	26,403	100	\$54,318
First professional degree	46,514	50,750	5.9	5.8	4,236	5.1	1,299	4.9	\$111,229
Doctoral degree	18,748	21,447	2.4	2.5	2,699	3.3	632	2.4	\$72,944
Master's degree	27,854	30,836	3.5	3.5	2,982	3.6	1,184	4.5	\$69,361
Bachelor's+, work exp.	97,678	103,415	12.4	11.9	5,737	6.9	2,895	11	\$86,954
Bachelor's degree	169,823	197,329	21.6	22.7	27,506	33.2	6,389	24.2	\$69,683
Associate degree	46,663	54,171	5.9	6.2	7,508	9.1	1,643	6.2	\$52,342
Post-secondary Voc. training	22,681	25,434	2.9	2.9	2,753	3.3	728	2.8	\$44,837
Work experience	85,366	91,643	10.8	10.5	6,277	7.6	2,446	9.3	\$60,527
Long-term on-the-job training	33,646	36,180	4.3	4.2	2,534	3.1	1,035	3.9	\$50,698
Moderate-term on-the-job training	62,321	68,642	7.9	7.9	6,321	7.6	1,806	6.8	\$40,325
Short-term on-the-job training	175,245	189,482	22.3	21.8	14,237	17.2	6,352	24.1	\$30,921

Note: *District of Columbia 2008-2018 Industry and Occupational Projections

Source: D.C. Department of Employment Services, Office of Labor Market Research and Information

Figure 15: D.C. Percent Share of Employment by Education or Training Category, 2008 and Projected 2018

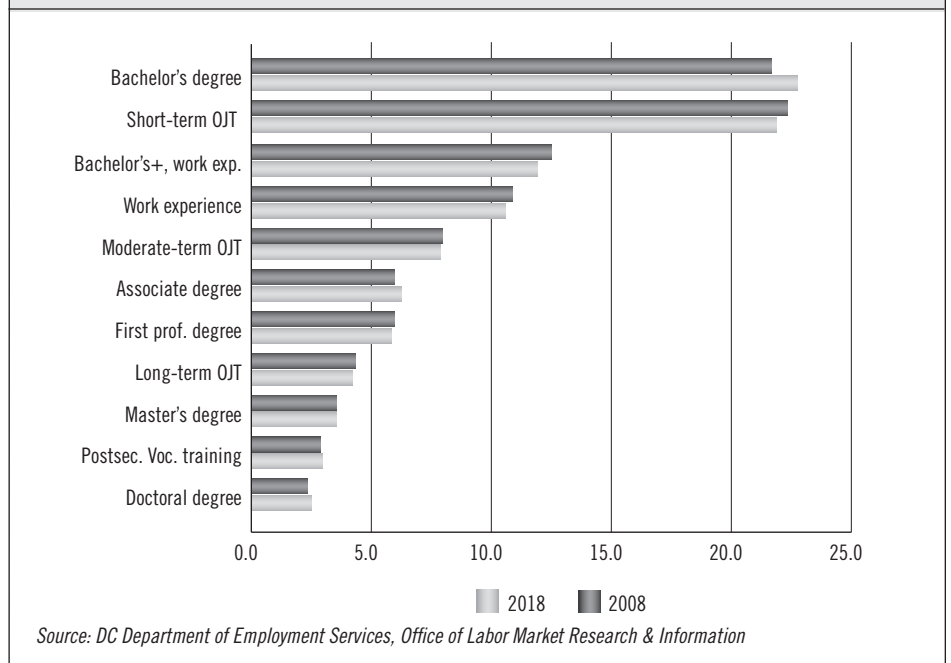
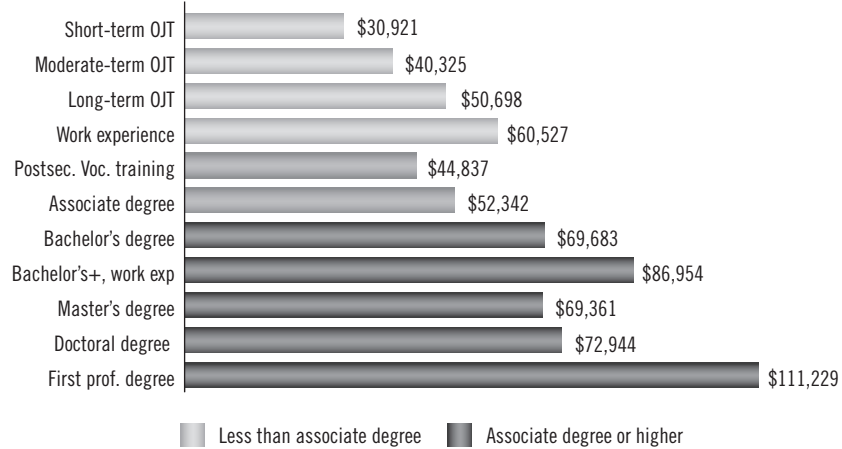


Figure 16: D.C. Median Wage by Education or Training Category, May 2009*



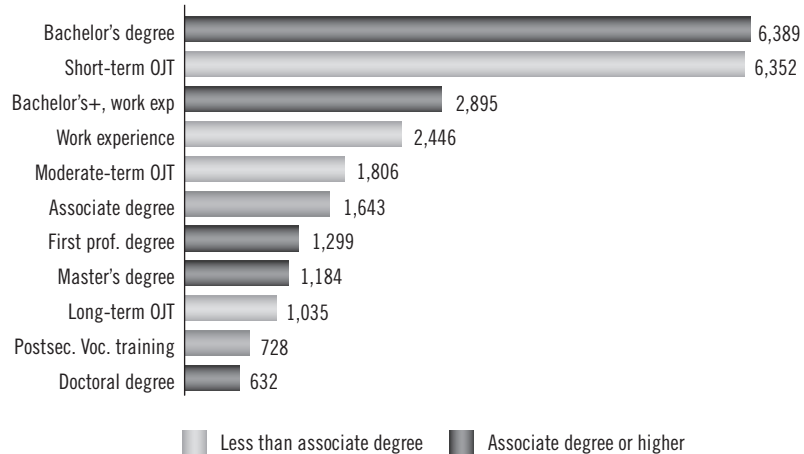
*Bureau of Labor Statistics, Occupational Employment Statistics (OES), May 2009 Survey

Figure 18: D.C. Share of Total New Job Openings by Education Category, Projected 2018



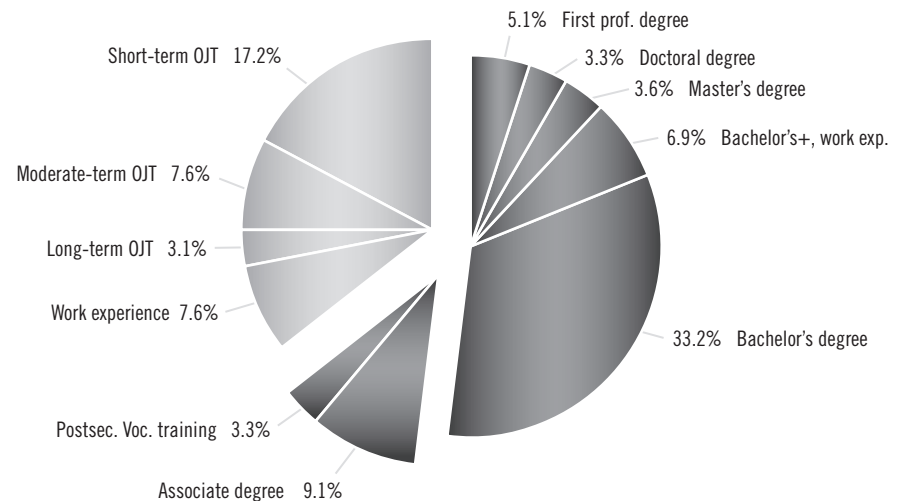
*Bureau of Labor Statistics, Occupational Employment Statistics (OES), May 2009 Survey

Figure 17: D.C. Total Openings by Education or Training Category, Projected 2018



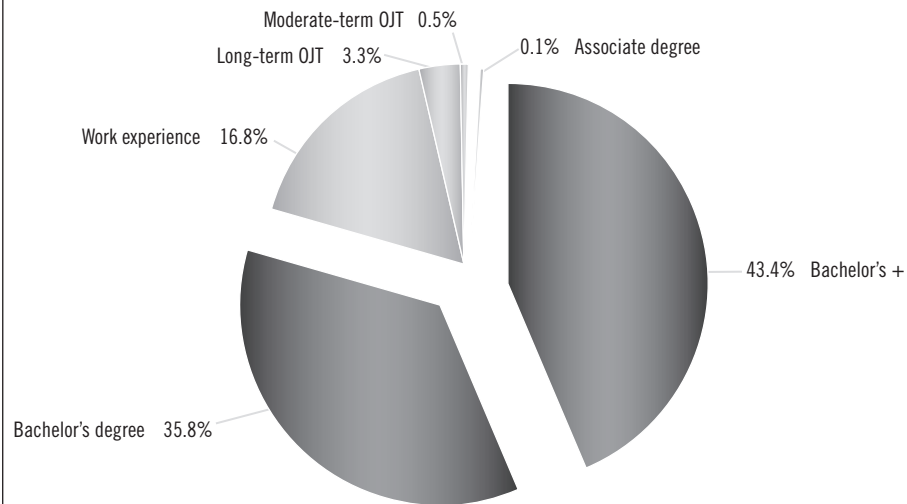
Source: DC Department of Employment Services, Office of Labor Market Research & Information

Figure 19: Percent of New Jobs, 2018



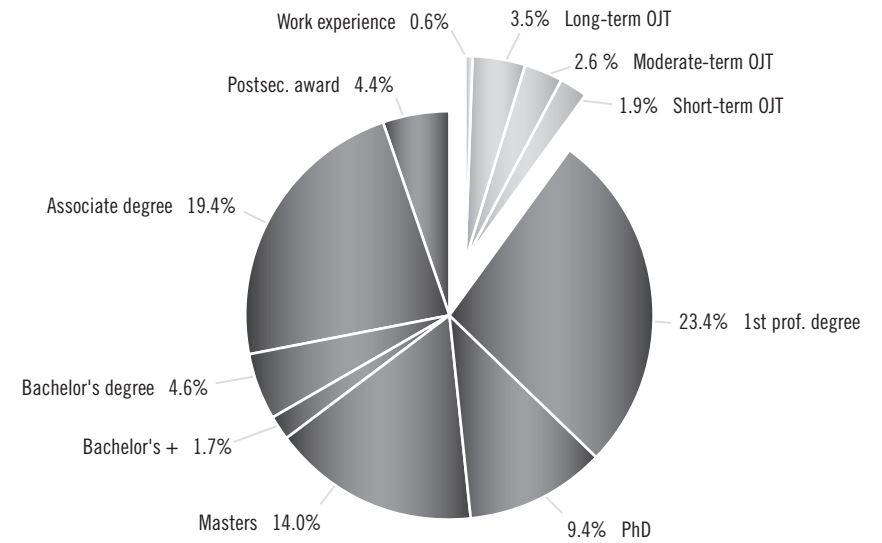
Source: DC Department of Employment Services, Office of Labor Market Research & Information

Figure 20: Percent Distribution of Employment by Education or Training in Professional and Related Occupations, 2008*



*Bureau of Labor Statistics, Occupational Employment Statistics (OES), May 2009 Survey

Figure 21: Percent Distribution of Employment by Education or Training in Office and Administrative Support Occupations



Source: DC Department of Employment Services, Office of Labor Market Research & Information

Occupational Projections by Career Clusters, 2008-2018

Occupations are grouped into 16 broad categories or career clusters as defined by the U.S. Department of Education as a way to link school and work, helping students to choose a curriculum best suited to their career. Table 1 shows the 16 career clusters by wage and projected annual openings. Career Clusters identify the knowledge and skill requirements and organize them into two levels. The first is the foundation level (consisting of knowledge and skills common to all occupations/career specialties within a cluster) for all learners interested in the broad category of occupations within a cluster. The second is the pathway level (consisting of knowledge and skills common to a sub-grouping of occupations/career specialties called a pathway), where cluster occupations are more narrowly grouped (See the graphics below.)

For the projected period 2008 – 2018, the business management and administration career cluster is ranked first in openings with 8,882 average annual openings and is projected to create an average of 2,200 new jobs annually; while the science, technology, engineering mathematics career cluster is ranked first in wages with \$83,770 average annual wage, and expected to create an average of just under 200 new jobs per year. Not surprisingly, career clusters in industries where the District has a weak industry base, for example agriculture, food, and natural resources, and manufacturing are also expected to have few job prospects, with 135 and 421 average annual openings in the 10-year projection period, respectively.

Medium-wage career clusters accounted for 78.5 percent of employment in 2008 and are projected to account for 72.7 percent of job growth between 2008 and 2018. (See figure 17.) Meanwhile, low-wage clusters represented 13 percent of employment in 2008 and are projected to be responsible of 11 percent of 2008-2018 job growth while high-wage clusters constituted 8.5 percent of employment in 2008, and are projected to account for 16.3 percent of job growth between 2008 and 2018. These numbers suggest that for unemployed workers and those entering the labor market for the first time, the future distribution of job opportunities looks well.

Figure 22: Percent Share of Employment by Education Career Cluster, 2008 and Projected 2018

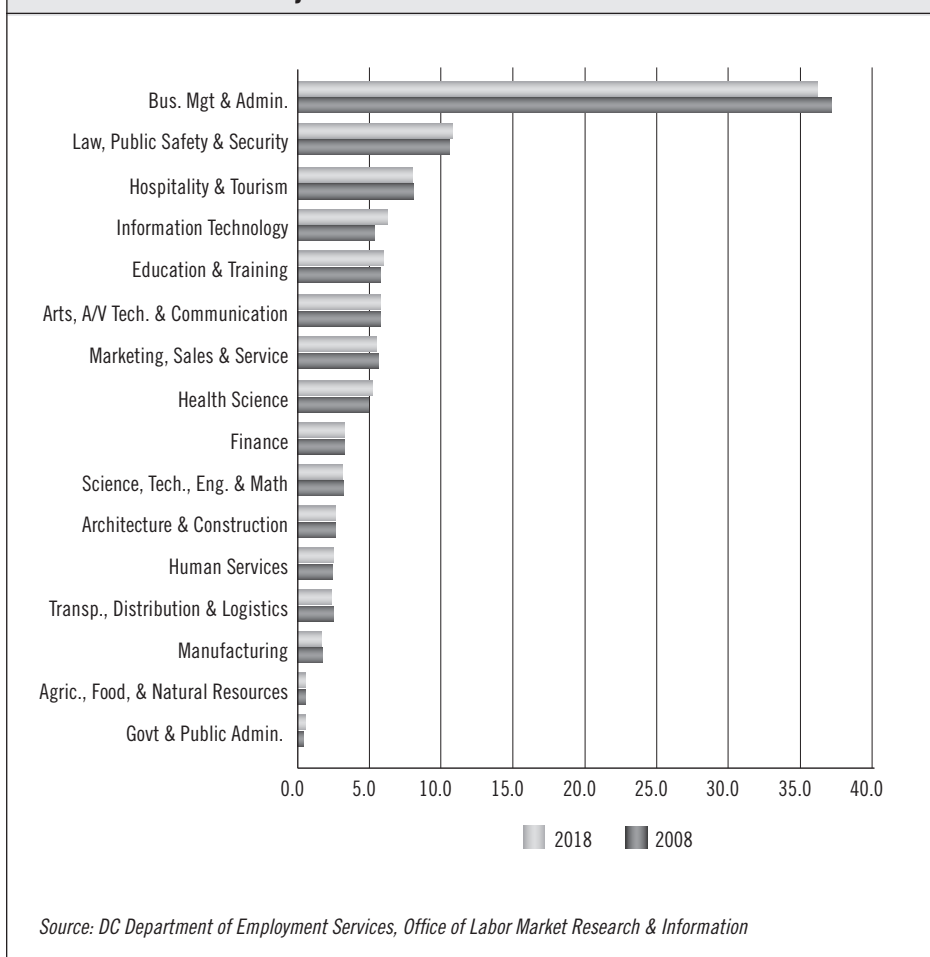


Table 20: District of Columbia Employment and Total Openings by Major Education Career Clusters, 2008 and Projected 2018*

Career Clusters	Employment		Percent Share		Change, 2008 – 2018		Average Annual Total Openings	Average Annual Wage**
	2008	2018	2008	2018	Numeric	Percent		
Total, All Occupations	787,156	870,014	100	100	82,858	100	26,403	\$66,417
Agric., Food, & Natural Resources	4,196	4,692	0.5	0.5	496	11.8	135	\$58,532
Architecture & Construction	20,988	22,695	2.7	2.6	1,707	8.1	557	\$49,477
Arts, A/V Tech. & Communication	45,245	48,909	5.7	5.6	3,664	8.1	1,529	\$57,413
Bus. Mgt & Admin.	292,386	314,797	37.1	36.2	22,343	7.6	8,882	\$60,654
Education & Training	45,690	52,173	5.8	6	6,483	14.2	1,589	\$62,394
Finance	25,720	28,582	3.3	3.3	2,862	11.1	798	\$63,762
Government & Public Administration	3,576	4,567	0.5	0.5	991	27.7	140	\$63,848
Health Science	39,041	45,428	5	5.2	6,387	16.4	1,359	\$64,685
Hospitality & Tourism	63,749	69,368	8.1	8	5,619	8.8	2,503	\$34,371
Human Services	19,075	21,556	2.4	2.5	2,481	13	687	\$44,513
Information Technology	41,941	53,430	5.3	6.1	11,489	27.4	1,944	\$72,342
Law, Public Safety & Security	82,727	93,839	10.5	10.8	11,112	13.4	2,733	\$59,164
Manufacturing	13,599	14,780	1.7	1.7	1,181	8.7	421	\$49,776
Marketing, Sales & Service	44,828	47,807	5.7	5.5	2,979	6.6	1,551	\$54,196
Science, Tech., Eng. & Math	25,006	26,997	3.2	3.1	1,991	8	990	\$83,770
Transp., Distribution & Logistics	19,389	20,394	2.5	2.3	1,005	5.2	591	\$48,742

Note: *District of Columbia 2008-2018 Industry and Occupational Projections

**Bureau of Labor Statistics, Occupational Employment Statistics (OES), May 2009 survey

Source: D.C. Department of Employment Services, Office of Labor Market Research and Information

Table 21: District of Columbia Employment and Total Openings by Education Career Cluster Groupings, 2008 and Projected 2018*

Career Clusters	Employment		Change, 2008 – 2018		Avg. Annual Total Openings
	2008	2018	Numeric	Percent	
Agriculture, Food, & Natural Resources	4,196	4,692	496	11.8	135
Landscaping and Groundskeeping Workers	1,048	1,179	131	12.5	26
Biological Scientists, All Other	402	477	75	18.7	21
Environmental Engineers	503	560	57	11.3	16
Water and Liquid Waste Treatment Plant and System Operators	260	302	42	16.2	10
Non-farm Animal Caretakers	296	331	35	11.8	10
Stationary Engineers and Boiler Operators	408	442	34	8.3	10
Environmental Engineering Technicians	62	77	15	24.2	3
Agricultural and Food Science Technicians	137	152	15	10.9	7
Soil and Plant Scientists	173	187	14	8.1	7
Conservation Scientists	219	233	14	6.4	3
First-Line Supervisors/Managers of Landscaping, Lawn Service	160	172	12	7.5	3
Anthropologists and Archeologists	54	64	10	18.5	4
Architecture & Construction	20,988	22,695	1,707	8.1	557
Construction Laborers	3,043	3,467	424	13.9	62
Architects, Except Landscape and Naval	2,973	3,377	404	13.6	90
Survey Researchers	820	1,053	233	28.4	45
Aerospace Engineers	449	549	100	22.3	19
Construction Managers	1,080	1,176	96	8.9	18
Reinforcing Iron and Rebar Workers	614	697	83	13.5	18
First-Line Supervisors/Managers of Construction Trades and Extraction	1,064	1,145	81	7.6	29
Cement Masons and Concrete Finishers	620	699	79	12.7	24
Architectural and Civil Drafters	619	668	49	7.9	18
Carpenters	1,674	1,720	46	2.7	26
Cost Estimators	191	223	32	16.8	7
Biomedical Engineers	53	85	32	60.4	4
Construction and Building Inspectors	289	315	26	9	9
Painters, Construction and Maintenance	750	775	25	3.3	16
Helpers—Carpenters	146	171	25	17.1	6

Career Clusters	Employment		Change, 2008 – 2018		Avg. Annual Total Openings
	2008	2018	Numeric	Percent	
Marine Engineers and Naval Architects	302	326	24	7.9	8
Landscape Architects	138	160	22	15.9	4
Heating, Air Conditioning, and Refrigeration Mechanics and Installers	409	431	22	5.4	9
Electrical Power-Line Installers and Repairers	96	117	21	21.9	5
Helpers—Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	140	157	17	12.1	5
Helpers—Installation, Maintenance, and Repair Workers	286	303	17	5.9	16
Brickmasons and Blockmasons	198	214	16	8.1	7
Operating Engineers and Other Construction Equipment Operators	197	207	10	5.1	4
Arts, A/V Technology & Communication	45,245	48,909	3,664	8.1	1,529
Public Relations Specialists	10,970	13,028	2,058	18.8	466
Writers and Authors	5,258	5,741	483	9.2	158
Editors	4,295	4,571	276	6.4	141
Technical Writers	763	899	136	17.8	26
Graphic Designers	2,240	2,367	127	5.7	82
Museum Technicians and Conservators	647	768	121	18.7	31
Librarians	1,562	1,675	113	7.2	52
Library Technicians	854	953	99	11.6	48
Artists and Related Workers, All Other	3,497	3,573	76	2.2	86
Ushers, Lobby Attendants, and Ticket Takers	500	567	67	13.4	39
Producers and Directors	1,712	1,768	56	3.3	59
Actors	732	783	51	7	23
Audio and Video Equipment Technicians	507	551	44	8.7	19
Art Directors	743	783	40	5.4	21
Curators	211	245	34	16.1	9
Media and Communication Equipment Workers, All Other	575	605	30	5.2	17
Set and Exhibit Designers	288	315	27	9.4	12
Photographic Process Workers	78	101	23	29.5	4

Table 21 continued on the next page

Table 21: District of Columbia Employment and Total Openings by Education Career Cluster Groupings, 2008 and Projected 2018* (continued)

Career Clusters	Employment		Change, 2008 – 2018		Avg. Annual Total Openings
	2008	2018	Numeric	Percent	
Camera Operators, Television, Video, and Motion Picture	434	456	22	5.1	13
Photographers	419	440	21	5	10
Musicians and Singers	551	569	18	3.3	13
Agents and Business Managers of Artists, Performers, and Athletes	76	92	16	21.1	4
Audiologists	59	75	16	27.1	3
Audio-Visual Collections Specialists	104	116	12	11.5	3
Media and Communication Workers, All Other	179	189	10	5.6	5
Sound Engineering Technicians	131	141	10	7.6	5
Business Management & Administration	291,769	314,112	22,343	7.7	8,882
Business Operations Specialists, All Other	36,384	39,335	2,951	8.1	1,103
Managers, All Other	34,765	35,679	914	2.6	988
General and Operations Managers	32,229	32,275	46	0.1	939
Janitors and Cleaners, Except Maids and Housekeeping Cleaner	19,162	21,330	2,168	11.3	579
Management Analysts	21,715	23,589	1,874	8.6	560
Accountants and Auditors	13,485	15,879	2,394	17.8	467
Executive Secretaries and Administrative Assistants	15,766	17,677	1,911	12.1	403
Customer Service Representatives	7,613	9,163	1,550	20.4	395
Office Clerks, General	14,194	16,107	1,913	13.5	384
Receptionists and Information Clerks	8,330	9,434	1,104	13.3	335
Legal Secretaries	7,545	9,141	1,596	21.2	262
Human Resources, Training, and Labor Relations Specialists, All Other	4,854	5,720	866	17.8	214
Political Scientists	2,841	3,336	495	17.4	192
First-Line Supervisors/Managers of Office and Administrative	5,158	5,772	614	11.9	177
Secretaries, Except Legal, Medical, and Executive	11,364	11,560	196	1.7	173
Administrative Services Managers	4,096	4,676	580	14.2	144
Employment, Recruitment, and Placement Specialists	2,483	3,144	661	26.6	131
Public Relations Managers	2,588	2,900	312	12.1	92

Career Clusters	Employment		Change, 2008 – 2018		Avg. Annual Total Openings
	2008	2018	Numeric	Percent	
Budget Analysts	2,642	3,074	432	16.4	91
Financial Specialists, All Other	2,934	3,150	216	7.4	75
Training and Development Specialists	1,346	1,703	357	26.5	71
Compensation, Benefits, and Job Analysis Specialists	1,297	1,628	331	25.5	67
Billing and Posting Clerks and Machine Operators	1,947	2,283	336	17.3	66
Operations Research Analysts	1,304	1,525	221	16.9	60
Property, Real Estate, and Community Association Managers	2,234	2,370	136	6.1	53
Medical Secretaries	962	1,137	175	18.2	31
Human Resources Managers, All Other	921	1,010	89	9.7	29
Compensation and Benefits Managers	522	598	76	14.6	19
Tax Examiners, Collectors, and Revenue Agents	317	359	42	13.2	15
Procurement Clerks	376	403	27	7.2	15
Interviewers, Except Eligibility and Loan	518	535	17	3.3	14
Interpreters and Translators	261	311	50	19.2	11
Proofreaders and Copy Markers	520	530	10	1.9	10
Tax Preparers	306	318	12	3.9	6
Training and Development Managers	135	153	18	13.3	5
Education & Training	45,690	52,173	6,483	14.2	1,589
Teachers and Instructors, All Other	6,560	7,147	587	8.9	160
Elementary School Teachers, Except Special Education	2,842	3,311	469	16.5	112
Self-Enrichment Education Teachers	1,228	1,657	429	34.9	62
Teacher Assistants	3,718	4,121	403	10.8	119
Instructional Coordinators	2,200	2,599	399	18.1	89
Educational, Vocational, and School Counselors	1,748	2,102	354	20.3	70
Fitness Trainers and Aerobics Instructors	1,253	1,561	308	24.6	54
Business Teachers, Post-secondary	1,386	1,614	228	16.5	47
Preschool Teachers, Except Special Education	1,221	1,444	223	18.3	47
Health Specialties Teachers, Post-secondary	2,849	3,057	208	7.3	71
Library Assistants, Clerical	1,371	1,571	200	14.6	77

Table 21 continued on the next page

Table 21: District of Columbia Employment and Total Openings by Education Career Cluster Groupings, 2008 and Projected 2018* (continued)

Career Clusters	Employment		Change, 2008 – 2018		Avg. Annual Total Openings
	2008	2018	Numeric	Percent	
Art, Drama, and Music Teachers, Post-secondary	797	969	172	21.6	31
Secondary School Teachers, Except Special and Vocational Education	1,823	1,983	160	8.8	69
Graduate Teaching Assistants	906	1,041	135	14.9	30
Law Teachers, Post-secondary	873	1,003	130	14.9	28
Political Science Teachers, Post-secondary	834	960	126	15.1	28
English Language and Literature Teachers, Post-secondary	785	903	118	15	26
Middle School Teachers, Except Special and Vocational Education	694	803	109	15.7	27
Health Educators	804	909	105	13.1	28
Nursing Instructors and Teachers, Post-secondary	682	782	100	14.7	22
Communications Teachers, Post-secondary	523	604	81	15.5	17
Education Administrators, All Other	737	814	77	10.4	30
Foreign Language and Literature Teachers, Post-secondary	384	461	77	20.1	15
Vocational Education Teachers, Post-secondary	206	279	73	35.4	11
Education Administrators, Elementary and Secondary School	855	927	72	8.4	33
Engineering Teachers, Post-secondary	459	528	69	15	15
Education, Training, and Library Workers, All Other	541	609	68	12.6	19
Mathematical Science Teachers, Post-secondary	448	515	67	15	15
Education Administrators, Post-secondary	1,180	1,245	65	5.5	42
Architecture Teachers, Post-secondary	421	484	63	15	13
Education Teachers, Post-secondary	407	468	61	15	13
Computer Science Teachers, Post-secondary	350	406	56	16	12
Social Work Teachers, Post-secondary	371	426	55	14.8	13
Psychology Teachers, Post-secondary	363	417	54	14.9	11
Special Education Teachers, Preschool, Kindergarten, and Elementary Schools	227	279	52	22.9	11
Post-secondary Teachers, All Other	338	389	51	15.1	11
Biological Science Teachers, Post-secondary	296	341	45	15.2	10

Career Clusters	Employment		Change, 2008 – 2018		Avg. Annual Total Openings
	2008	2018	Numeric	Percent	
Adult Literacy, Remedial Education, and GED Teachers and Instructors	274	317	43	15.7	8
Economics Teachers, Post-secondary	272	313	41	15.1	9
History Teachers, Post-secondary	246	283	37	15	8
Philosophy and Religion Teachers, Post-secondary	247	284	37	15	8
Criminal Justice and Law Enforcement Teachers, Post-secondary	213	245	32	15	7
Kindergarten Teachers, Except Special Education	212	243	31	14.6	7
Special Education Teachers, Secondary School	239	269	30	12.6	9
Chemistry Teachers, Post-secondary	155	178	23	14.8	5
Sociology Teachers, Post-secondary	141	162	21	14.9	5
Physics Teachers, Post-secondary	138	158	20	14.5	4
Area, Ethnic, and Cultural Studies Teachers, Post-secondary	127	146	19	15	4
Special Education Teachers, Middle School	101	120	19	18.8	5
Directors, Religious Activities and Education	197	214	17	8.6	6
Agricultural Sciences Teachers, Post-secondary	93	107	14	15.1	3
Anthropology and Archeology Teachers, Post-secondary	92	106	14	15.2	3
Recreation and Fitness Studies Teachers, Post-secondary	91	104	13	14.3	3
Finance	25,720	28,582	2,862	11.1	748
Financial Managers	7,614	8,304	690	9.1	206
Bookkeeping, Accounting, and Auditing Clerks	5,361	5,998	637	11.9	128
Financial Analysts	2,121	2,648	527	24.8	92
Personal Financial Advisors	966	1,231	265	27.4	37
Financial Examiners	437	609	172	39.4	25
Bill and Account Collectors	747	897	150	20.1	29
Insurance Sales Agents	1,184	1,326	142	12	42
Claims Adjusters, Examiners, and Investigators	893	1,020	127	14.2	36
Tellers	1,562	1,628	66	4.2	71
Securities, Commodities, and Financial Services Sales Agents	1,118	1,180	62	5.5	40

Table 21 continued on the next page

Table 21: District of Columbia Employment and Total Openings by Education Career Cluster Groupings, 2008 and Projected 2018* (continued)

Career Clusters	Employment		Change, 2008 – 2018		Avg. Annual Total Openings
	2008	2018	Numeric	Percent	
Loan Officers	782	834	52	6.6	14
Actuaries	317	348	31	9.8	12
Loan Counselors	99	125	26	26.3	4
Credit Analysts	211	230	19	9	6
Insurance Claims and Policy Processing Clerks	298	313	15	5	6
Government & Public Administration	3,576	4,567	991	27.7	140
Compliance Officers, Ex. Agriculture, Construction, Health & Safety, & Transp.	3,223	4,166	943	29.3	128
Urban and Regional Planners	249	283	34	13.7	8
Health Science	39,041	45,428	6,387	16.4	1,359
Home Health Aides	2,706	4,179	1,473	54.4	174
Registered Nurses	8,891	10,205	1,314	14.8	286
Nursing Aides, Orderlies, and Attendants	3,022	3,421	399	13.2	70
Medical Assistants	1,275	1,657	382	30	52
Licensed Practical and Licensed Vocational Nurses	1,684	1,886	202	12	73
Medical and Health Services Managers	2,253	2,438	185	8.2	62
Medical Scientists, Except Epidemiologists	515	683	168	32.6	27
Emergency Medical Technicians and Paramedics	1,239	1,404	165	13.3	42
Dental Hygienists	439	599	160	36.4	25
Dental Assistants	485	638	153	31.5	24
Community and Social Service Specialists, All Other	897	1,040	143	15.9	33
Family and General Practitioners	488	627	139	28.5	23
Surgical Technologists	570	701	131	23	27
Pharmacy Technicians	688	817	129	18.8	30
Physicians and Surgeons, All Other	1,565	1,669	104	6.6	38
Surgeons	336	438	102	30.4	16
Health Technologists and Technicians, All Other	402	500	98	24.4	18
Physician Assistants	557	652	95	17.1	20
Healthcare Support Workers, All Other	723	800	77	10.7	16
Radiologic Technologists and Technicians	664	735	71	10.7	17
Dietitians and Nutritionists	492	556	64	13	22

Career Clusters	Employment		Change, 2008 – 2018		Avg. Annual Total Openings
	2008	2018	Numeric	Percent	
Medical Records and Health Information Technicians	482	541	59	12.2	16
Pharmacists	633	691	58	9.2	20
Healthcare Practitioners and Technical Workers, All Other	808	860	52	6.4	32
Dentists, General	340	386	46	13.5	14
Physical Therapists	315	361	46	14.6	9
Respiratory Therapists	323	365	42	13	10
Speech-Language Pathologists	398	433	35	8.8	11
Health Diagnosing and Treating Practitioners, All Other	548	577	29	5.3	13
Occupational Health and Safety Specialists	440	469	29	6.6	18
Radiation Therapists	164	191	27	16.5	6
Veterinary Assistants and Laboratory Animal Caretakers	94	120	26	27.7	4
Obstetricians and Gynecologists	128	153	25	19.5	5
Cardiovascular Technologists and Technicians	126	151	25	19.8	5
Occupational Therapists	200	220	20	10	6
Psychiatrists	236	255	19	8.1	6
Physical Therapist Aides	81	99	18	22.2	3
Veterinarians	55	70	15	27.3	3
Therapists, All Other	160	174	14	8.8	4
Diagnostic Medical Sonographers	70	84	14	20	2
Physical Therapist Assistants	68	82	14	20.6	2
Medical and Clinical Laboratory Technicians	506	519	13	2.6	11
Veterinary Technologists and Technicians	39	52	13	33.3	2
Hospitality & Tourism	63,749	69,368	5,619	8.8	2,503
Combined Food Preparation and Serving Workers, Including Fast Food	6,813	7,828	1,015	14.9	247
Maids and Housekeeping Cleaners	7,834	8,469	635	8.1	205
Waiters and Waitresses	8,144	8,727	583	7.2	508
Dishwashers	2,730	3,074	344	12.6	146
First-Line Supervisors/Managers of Housekeeping and Janitorial	3,226	3,554	328	10.2	67

Table 21 continued on the next page

Table 21: District of Columbia Employment and Total Openings by Education Career Cluster Groupings, 2008 and Projected 2018* (continued)

Career Clusters	Employment		Change, 2008 – 2018		Avg. Annual Total Openings
	2008	2018	Numeric	Percent	
Cooks, Restaurant	3,771	4,069	298	7.9	127
Meeting and Convention Planners	2,303	2,588	285	12.4	80
Food Preparation Workers	3,421	3,629	208	6.1	144
First-Line Supervisors/Managers of Food Preparation and Servers	2,741	2,929	188	6.9	45
Dining Room and Cafeteria Attendants and Bartender Helpers	3,041	3,220	179	5.9	150
Bartenders	2,348	2,505	157	6.7	100
Cooks, Institution and Cafeteria	1,311	1,466	155	11.8	50
Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	1,687	1,839	152	9	139
Coaches and Scouts	676	814	138	20.4	27
Concierges	1,050	1,179	129	12.3	40
Travel Agents	783	904	121	15.5	18
Hotel, Motel, and Resort Desk Clerks	795	912	117	14.7	39
Recreation Workers	970	1,071	101	10.4	28
Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	1,293	1,386	93	7.2	99
First-Line Supervisors/Managers of Personal Service Workers	825	903	78	9.5	31
Food Servers, Non restaurant	1,367	1,438	71	5.2	30
Cooks, Fast Food	739	801	62	8.4	25
Reservation and Transportation Ticket Agents and Travel Clerks	573	619	46	8	18
Baggage Porters and Bellhops	594	630	36	6.1	19
Tour Guides and Escorts	435	467	32	7.4	21
Amusement and Recreation Attendants	269	295	26	9.7	17
Food Service Managers	963	978	15	1.6	21
Costume Attendants	110	124	14	12.7	7
Lodging Managers	330	342	12	3.6	8
Human Services	19,075	21,556	2,481	13	687
Social and Human Service Assistants	2,109	2,687	578	27.4	103

Career Clusters	Employment		Change, 2008 – 2018		Avg. Annual Total Openings
	2008	2018	Numeric	Percent	
Personal and Home Care Aides	1,225	1,551	326	26.6	48
Child Care Workers	3,057	3,294	237	7.8	114
Hairdressers, Hairstylists, and Cosmetologists	1,442	1,653	211	14.6	42
Child, Family, and School Social Workers	1,473	1,626	153	10.4	52
Mental Health and Substance Abuse Social Workers	1,176	1,318	142	12.1	44
Social and Community Service Managers	1,244	1,379	135	10.9	43
Mental Health Counselors	453	534	81	17.9	17
Substance Abuse and Behavioral Disorder Counselors	436	513	77	17.7	17
Sociologists	667	740	73	10.9	20
Rehabilitation Counselors	926	992	66	7.1	26
Social Workers, All Other	601	660	59	9.8	21
Medical and Public Health Social Workers	388	445	57	14.7	16
Eligibility Interviewers, Government Programs	529	582	53	10	17
Clinical, Counseling, and School Psychologists	779	817	38	4.9	26
Probation Officers and Correctional Treatment Specialists	131	165	34	26	6
Clergy	292	322	30	10.3	9
Skin Care Specialists	89	116	27	30.3	4
Residential Advisors	711	734	23	3.2	27
Barbers	514	534	20	3.9	10
Arbitrators, Mediators, and Conciliators	171	187	16	9.4	5
Psychologists, All Other	228	241	13	5.7	8
Shampooers	150	160	10	6.7	3
Information Technology	41,941	53,430	11,489	27.4	1,944
Computer Software Engineers, Applications	3,149	5,036	1,887	59.9	216
Network Systems and Data Communications Analysts	2,733	4,546	1,813	66.3	230
Network and Computer Systems Administrators	4,135	5,902	1,767	42.7	246
Computer Systems Analysts	4,069	5,456	1,387	34.1	227
Computer Software Engineers, Systems Software	1,936	2,836	900	46.5	106
Computer Support Specialists	4,413	5,313	900	20.4	212
Computer Specialists, All Other	10,246	11,049	803	7.8	301

Table 21 continued on the next page

Table 21: District of Columbia Employment and Total Openings by Education Career Cluster Groupings, 2008 and Projected 2018* (continued)

Career Clusters	Employment		Change, 2008 – 2018		Avg. Annual Total Openings
	2008	2018	Numeric	Percent	
Computer and Information Systems Managers	4,063	4,819	756	18.6	142
Database Administrators	1,450	1,924	474	32.7	71
Computer Hardware Engineers	832	1,175	343	41.2	57
Computer Programmers	3,086	3,275	189	6.1	77
Computer, Automated Teller, and Office Machine Repairers	570	695	125	21.9	23
Computer and Information Scientists, Research	428	498	70	16.4	16
Computer Operators	460	527	67	14.6	12
Electrical and Electronics Repairers, Powerhouse, Substation	249	265	16	6.4	6
Law, Public Safety & Security	82,727	93,839	11,112	13.4	2,733
Lawyers	42,418	46,120	3,702	8.7	1,163
Security Guards	15,428	18,212	2,784	18	595
Paralegals and Legal Assistants	7,518	9,528	2,010	26.7	286
Detectives and Criminal Investigators	3,579	4,514	935	26.1	167
Correctional Officers and Jailers	1,794	2,223	429	23.9	83
Police and Sheriff's Patrol Officers	5,034	5,415	381	7.6	168
Court Reporters	977	1,237	260	26.6	40
Legal Support Workers, All Other	1,455	1,578	123	8.5	34
Law Clerks	602	716	114	18.9	20
Private Detectives and Investigators	375	475	100	26.7	18
First-Line Supervisors/Managers of Police and Detectives	1,067	1,142	75	7	55
First-Line Supervisors/Managers, Protective Service Workers, All Other	575	633	58	10.1	27
Fire Fighters	592	649	57	9.6	24
Administrative Law Judges, Adjudicators, and Hearing Officer	365	390	25	6.8	10
Protective Service Workers, All Other	163	175	12	7.4	12
First-Line Supervisors/Managers of Fire Fighting and Prevention Workers	141	152	11	7.8	8
Manufacturing	13,599	14,780	1,181	8.7	421
Maintenance and Repair Workers, General	4,278	4,867	589	13.8	125

Career Clusters	Employment		Change, 2008 – 2018		Avg. Annual Total Openings
	2008	2018	Numeric	Percent	
Purchasing Agents, Except Wholesale, Retail, and Farm Produce	2,990	3,495	505	16.9	130
Electrical and Electronic Engineering Technicians	476	580	104	21.8	19
Engineering Technicians, Except Drafters, All Other	538	577	39	7.2	14
Medical Equipment Repairers	179	210	31	17.3	8
Civil Engineering Technicians	290	317	27	9.3	9
Industrial Machinery Mechanics	181	202	21	11.6	5
First-Line Supervisors/Managers of Mechanics, Installers, and Repairers	893	909	16	1.8	25
Electrical and Electronics Repairers, Commercial and Industrial	162	174	12	7.4	4
Locksmiths and Safe Repairers	100	112	12	12	3
Plant and System Operators, All Other	152	163	11	7.2	5
Marketing, Sales & Service	44,828	47,807	2,979	6.6	1,551
Market Research Analysts	4,042	4,976	934	23.1	202
Retail Salespersons	6,628	7,079	451	6.8	230
Sales Managers	1,297	1,569	272	21	55
Sales Representatives, Wholesale and Manufacturing, Technical	1,014	1,207	193	19	43
Real Estate Sales Agents	2,121	2,302	181	8.5	53
Engineering Managers	1,932	2,082	150	7.8	54
Marketing Managers	1,125	1,264	139	12.4	38
Sales Representatives, Wholesale and Manufacturing, Ex. Tech. & Scient. Prod.	1,450	1,564	114	7.9	45
Sales and Related Workers, All Other	1,333	1,447	114	8.6	41
Purchasing Managers	1,617	1,720	103	6.4	56
Sales Representatives, Services, All Other	1,104	1,200	96	8.7	37
Stock Clerks and Order Fillers	1,220	1,295	75	6.1	36
Interior Designers	954	1,023	69	7.2	36
Cashiers	6,295	6,364	69	1.1	290
Advertising Sales Agents	789	856	67	8.5	23
Parking Lot Attendants	2,300	2,343	43	1.9	87

Table 21 continued on the next page

Table 21: District of Columbia Employment and Total Openings by Education Career Cluster Groupings, 2008 and Projected 2018* (continued)

Career Clusters	Employment		Change, 2008 – 2018		Avg. Annual Total Openings
	2008	2018	Numeric	Percent	
First-Line Supervisors/Managers of Retail Sales Workers	3,044	3,077	33	1.1	68
First-Line Supervisors/Managers of Non-Retail Sales Workers	1,009	1,035	26	2.6	24
Real Estate Brokers	821	847	26	3.2	16
Personal Care and Service Workers, All Other	239	264	25	10.5	8
Science, Technology, Engineering & Mathematics	25,006	26,997	1,991	8	990
Social Scientists and Related Workers, All Other	3,197	3,886	689	21.6	229
Engineers, All Other	3,500	3,777	277	7.9	101
Environmental Scientists and Specialists, Including Health	1,757	1,906	149	8.5	65
Mechanical Engineers	725	855	130	17.9	32
Industrial Engineers	309	422	113	36.6	19
Civil Engineers	791	892	101	12.8	23
Natural Sciences Managers	1,161	1,252	91	7.8	43
Physical Scientists, All Other	1,018	1,100	82	8.1	34
Social Science Research Assistants	799	874	75	9.4	42
Statisticians	1,049	1,123	74	7.1	38
Electronics Engineers, Except Computer	900	951	51	5.7	26
Physicists	625	671	46	7.4	23
Electrical Engineers	543	584	41	7.6	17
Forensic Science Technicians	191	232	41	21.5	12
Chemists	427	457	30	7	17
Environmental Science and Protection Technicians, Including Health	166	195	29	17.5	10
Biochemists and Biophysicists	80	103	23	28.8	5
Nuclear Engineers	207	229	22	10.6	6
Life, Physical, and Social Science Technicians, All Other	318	340	22	6.9	16
Food Scientists and Technologists	80	97	17	21.3	5
Materials Engineers	79	94	15	19	4
Biological Technicians	134	149	15	11.2	7
Chemical Engineers	127	138	11	8.7	4

Career Clusters	Employment		Change, 2008 – 2018		Avg. Annual Total Openings
	2008	2018	Numeric	Percent	
Microbiologists	149	159	10	6.7	6
Geoscientists, Except Hydrologists and Geographers	159	169	10	6.3	6
Transportation, Distribution & Logistics	19,389	20,394	1,005	5.2	591
Taxi Drivers and Chauffeurs	1,752	2,027	275	15.7	59
Bus Drivers, School	1,105	1,310	205	18.6	40
Logisticians	822	1,010	188	22.9	37
Refuse and Recyclable Material Collectors	920	1,026	106	11.5	38
Motor Vehicle Operators, All Other	1,396	1,499	103	7.4	34
Transportation Workers, All Other	1,202	1,292	90	7.5	52
Postal Service Mail Carriers	1,003	1,070	67	6.7	38
Bus Drivers, Transit and Intercity	734	801	67	9.1	20
Truck Drivers, Light or Delivery Services	1,957	2,013	56	2.9	41
Transportation Inspectors	290	339	49	16.9	12
Education Administrators, Preschool and Child Care Center/Program	379	421	42	11.1	15
Production, Planning, and Expediting Clerks	473	506	33	7	15
Air Traffic Controllers	268	293	25	9.3	12
Truck Drivers, Heavy and Tractor-Trailer	643	658	15	2.3	14
Bicycle Repairers	57	69	12	21.1	2

Note: *District of Columbia 2008-2018 Industry and Occupational Projections

Source: D.C. Department of Employment Services, Office of Labor Market Research and Information

Career Cluster Projection Analysis

1. Agriculture, Food, and Natural Resources

This career cluster prepares learners for careers in the planning, implementation, production, management, processing and/or marketing of agricultural commodities and services. This includes food, fiber, wood products, natural resources, horticulture, and other plant and animal products. It also includes related professional, technical and educational services. The agricultural, food, and natural resources cluster is the second smallest education cluster in the District that accounted for a half a percentage of employment in 2008 and is projected to have the least annual job openings (135) over the 10-year projection period. The wages in this sector are in the medium range, and the average annual wage paid in May 2009 was \$58,532.

The Seven Pathways

1. Food Products & Processing Systems
2. Plant Systems
3. Animal Systems
4. Power, Structural & Technical Systems
5. Natural Resource Systems
6. Environmental Service Systems
7. Agribusiness Systems

Sample Occupations

Food Scientist
Environmental Engineer
Horticulturist
Animal Scientist
Biochemist
Veterinarian Assistant

2. Architecture and Construction

This career cluster prepares learners for careers in designing, planning, managing, building, and maintaining the building environment. People employed in this cluster work on new structures, restorations, additions, alterations and repairs. Architecture and construction comprise one of the largest industries in the United States. Architecture and construction is estimated to have 557 average annual openings, and add 1,707 new jobs (8.1 percent) to reach 22,695 jobs by 2018. Construction laborers and architects, except landscape and naval, each accounted for 14 percent of 2008 employment in architecture and construction. The wages in this sector are in the medium range, and the average annual wage paid in May 2009 was \$49,477.

The Three Pathways

1. Design/Pre-Construction
2. Construction
3. Maintenance/Operations

Sample Occupations

Contractor
Architect
Electrician
Heavy Equipment Operator
Carpenter
Plumber

3. Arts, A/V Technology, and Communications

Broadly, individuals that work in the AV communications industry manufacture, sell, rent, design, install, integrate, operate, and repair the equipment of audiovisual communications. They are involved in the presentation of sound, video, and data to groups in such venues as corporate boardrooms, hotels, convention centers, classrooms, theme parks, stadiums, and museums. The major activity sectors in the AV communications industry are distributive service firms (e.g., AV dealers, rental companies, consultants, designers, and related firms), manufacturers of AV presentations and communications products, and large end-users. The arts, A/V technology, and communications career cluster is projected to have 1,529 average annual openings and add over 3,600 new jobs (8.1 percent) to reach 48,909 jobs by 2018. Most of this job growth is expected in public relations specialists, estimated to add over 2,500 new jobs, with a high growth rate of 18.8 percent over the 10-year projection period. The wages in this sector are in the medium range, and the average annual wage paid in May 2009 was \$57,513.

The Six Pathways

1. Audio/Video Communications Technology
2. Broadcasting, Film & Journalism
3. Performing Arts
4. Printing Technology
5. Telecommunications
6. Visual Arts

Sample Occupations

Actor
Video Producer
Journalist
Audio Engineer
Telecommunications Technologist
Printing/Graphics Technologist

4. Business, Management, and Administration

The business, management, and administration career cluster prepares learners for careers in planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations. Career opportunities are available in every sector of the economy and require specific skills in organization, time management, customer service and communication. The business, management, and administration cluster is a critical sector of the District's economy, and employed almost 292,000 or 37 percent of total employment in 2008. This cluster is projected to have the most number of annual openings at 8,882 jobs through 2018 and is expected to add 22,343 new jobs or 7.7 percent to reach 314,112 jobs by 2018. Business operations specialists, general and operations managers, management analysts, and all other managers accounted for over 42 percent of 2008 employment and are projected to account for over 40 percent of job openings by 2018. The business operations specialist occupation with 1,063 openings is projected to have the second largest number of annual openings of all occupations. The wages in this sector are in the medium range, and the average annual wage paid in May 2009 was \$60,654.

The Six Pathways

1. *Management*
2. *Business Financial Management & Accounting*
3. *Human Resources*
4. *Business Analysis*
5. *Marketing*
6. *Administration & Information Support*

Sample Occupations

Human Resource Administrator
Administrative Specialist
Financial Analyst
International Trade Manager
Entrepreneur
Accountant

5. Education and Training

The education and training career cluster prepares learners for careers in planning, managing, and providing education and training services, and related learning support services. Millions of people each year prepare for careers in education and training in a variety of settings that offer academic instruction, vocational and technical instruction, and other education and training services. Education and training is projected to have 1,529 average annual openings and add 1,589 new jobs (8.1 percent) to reach 52,173 jobs by 2018. The wages in this sector are in the medium range, and the average annual wage paid in May 2009 was \$62,394.

The Three Pathways

1. *Teaching and Training*
2. *Professional Support Services*
3. *Administration and Administrative Support*

Sample Occupations

Teacher
Principal
School Counselor
College Professor
Corporate Trainer
Coach

6. Finance

The finance career cluster prepares learners for careers in financial and investment planning, banking, insurance and business financial management. Career opportunities are available in every sector of the economy and require specific skills in organization, time management, customer service and communication. This cluster accounted for just over three percent of employment in 2008 and is projected to have 798 job openings and add 2,862 new jobs (11.1 percent) to reach 28,582 jobs by 2018. Financial managers accounted for 30 percent of employment in 2008. The wages in this sector are in the medium range, and the average annual wage paid in May 2009 was \$63,762.

The Four Pathways

1. *Financial and Investment Planning*
2. *Business Financial Management*
3. *Banking and Related Services*
4. *Insurance Services*

Sample Occupations

Stock Broker
Banker
Insurance Agent
Financial Planner
Loan Officer
Tax Examiner

7. Government and Public Administration

The government and public administration career cluster focuses on those careers that are unique to government and not contained in another career cluster. Government and public administration is the smallest education cluster in the District that accounted for a half a percent-

age of employment in 2008 and is projected to have 140 average annual openings over the 10-year projection period. The wages in this sector are in the medium range, and the average annual wage paid in May 2009 was \$63,752.

<i>The Seven Pathways</i>	<i>Sample Occupations</i>
1. Governance	Legislator City Manager
2. National Security	Policy/Budget Analyst
3. Foreign Service	Recreation/Parks Director
4. Planning	State/Federal Agency Director
5. Revenue and Taxation	Urban/Regional Planner
6. Regulation	
7. Public Management and Administration	

8. Health Services

The health services industry in the District includes establishments ranging from small private practice physicians who employ only one medical assistant to large university hospitals that provide thousands of diverse jobs. The health services career cluster accounted for five percent of employment in 2008 and is projected to have 1,359 average annual openings, and add 6,387 new jobs (16.4 percent) to reach 45,428 jobs by 2018. Registered nurses, home health aides, nursing aides, orderlies, and attendants, medical and health services managers, and licensed practical and licensed vocational nurses occupations accounted for over 47 percent of combined employment in 2008 and are projected to account for 56 percent of new jobs in health services by 2018. The registered nurses occupation had the most jobs in this cluster accounting for 23 percent of employment in 2008 and is projected to add 1,314 new jobs (14.8 percent) by 2018. Home health occupation is projected to be the fourth fastest growing of all occupations with a growth rate of 54.4 percent, adding 1,473 new jobs to reach 4,173 jobs by 2018. The wages in this sector are in the medium range, and the average annual wage paid in May 2009 was \$64,685.

<i>The Four Pathways</i>	<i>Sample Occupations</i>
1. Therapeutic	Pediatrician
2. Information	Physical Therapist
3. Environmental	Radiologic Technologist
4. Diagnostic	Medical Assistant
	Hospital Administrator

9. Hospitality and Tourism

The hospitality and tourism cluster prepares learners for careers in the management, marketing, and operations of restaurants and other food services, lodging, attractions, recreation events, and travel-related services. Beginning salaries depend on the employee's skills, education, and job level at a hotel, restaurant, tourism office, recreation facility, amusement park, or attraction site. Salaries range from entry-level wages to six figures. This industry is known for promoting from within and for its large number of young managers. This cluster accounted for 8.1 percent of employment in 2008 and is projected to have 2,503 average annual openings with; and a growth rate of 8.8 percent, adding 5,619 new jobs to reach 69,368 jobs by 2018. Almost 36 percent of employment in this cluster was accounted for by three occupations: waiters and waitresses (13%), maids and housekeeping cleaners (12%), and combined food preparation and serving workers, including fast food (11%). The combined food preparation and serving workers occupation is also projected to contribute to over 1,000 average annual job openings, the most in hospitality and tourism. Hospitality and tourism is a low-wage industry with high turnovers due to seasonal factors. The average annual wage in May 2009 was \$34,371, the lowest among all the career clusters.

<i>The Four Pathways</i>	<i>Sample Occupations</i>
1. Restaurant and Food/Beverage Services	Lodging Manager
2. Lodging	Chef
3. Travel and Tourism	Travel & Tourism Manager
4. Recreation, Amusements and Attractions	Food Service Manager

10. Human Services

The human services career cluster prepares individuals for employment in career pathways related to families and human needs. Employment in this cluster accounted for 2.4 percent in 2008 and is projected to have 687 average annual openings and a growth rate of 13 percent, adding 2,481 new jobs by 2018. Over 27 percent of employment in 2008 in this cluster was accounted for by two occupations: child care workers (16%) and social and human service assistants (11%). The two occupations are also projected to account for almost 32 percent of job openings in the cluster through 2018. The human service is a low-wage industry, and the average annual wage in May 2009 was \$44,513, the second lowest among all the career clusters.

The Five Pathways

- 1. Early Childhood Development and Services*
- 2. Counseling and Mental Health Services*
- 3. Family and Community Services*
- 4. Personal Care Services*
- 5. Consumer Services*

Sample Occupations

Social Worker
Psychologist
Child Care Worker
Substance Abuse Specialist
Employment Specialist
Psychotherapist

11. Information Technology

IT careers involve the design, development, support and management of hardware, software, multimedia, and systems integration services. In addition to careers in the IT industry, IT careers are available in every sector of the economy - from financial services to medical services, from business to engineering and environmental services. Anyone preparing for an IT career should have a solid grounding in math and science. IT career cluster represented 5.3 percent of employment in 2008 and is projected to have 1,944 average annual openings and a high-growth rate of 27.4 percent, adding 11,489 new jobs to reach 53,430 jobs by 2018. IT is expected to have among the fastest growing of all occupations between 2008 and 2018, with network systems and data communications analysts (66.3%), and computer software engineers, applications (59.9%) taking the top two spots. IT is a high-wage industry that paid an average annual wage of \$72,342 in May 2009.

The Four Pathways

- 1. Network Systems*
- 2. Information Support & Services*
- 3. Interactive Media*
- 4. Programming/Software Engineering*

Sample Occupations

Software Engineer
Network Administrator
Web Designer/Developer
Database Manager
Technical Writer
Multimedia Producer

12. Law, Public Safety, and Security

The law, public safety, and security cluster helps prepare students for careers in planning, managing, and providing legal, public safety, protective services, and homeland security, including professional and technical support services. Renewed national interest in public safety and security should help expand opportunities for employment in the law, public safety, and security cluster. Numerous job openings will stem from employment growth attributable to the desire for increased corporate, industrial and homeland security. Also, a more security-conscious society and concern about drug-related crimes should contribute to the increasing demand. The law, public safety, and security career cluster accounted for 10.5 percent of employment in 2008 and is projected to have 2,733 average annual openings and a growth rate of 13.4 percent, adding 11,112 new jobs to reach 93,839 jobs by 2018. Over 79 percent of employment in 2008 in this cluster was accounted for by three occupations: lawyers (51%), security guards (19%), and paralegals and legal assistants (9%). The three occupations are also projected to account for almost 75 percent of job openings in the cluster through 2018. Lawyers and security guards are projected to be among the top three high-demand occupations with 1,163 and 595 average annual job openings, respectively over the 10-year projection period. The law, public safety and security occupation is a medium-wage sector that paid an average annual wage of \$59,164 in May 2009.

The Five Pathways

- 1. Correction Services*
- 2. Emergency and Fire Management Services*
- 3. Security and Protective Services*
- 4. Law Enforcement Services*
- 5. Legal Services*

Sample Occupations

Attorney
Fire Fighter
Police Officer
Judge
Paramedic

13. Manufacturing

Careers in manufacturing require a strong mechanical ability, specialized skills, communication skills, and computation skills. A person is required to apply problem solving, make decisions, and work in a team environment. Preparation for careers in manufacturing begin in the elementary grades and continue through high school allowing students to gain experience in applied, real-time manufacturing situations. Students also find it advantageous to participate in a post-high school program that will expand skills in specific jobs that meet the requirements of the employer. As technology advances, each worker has the opportunity to produce more, so fewer

workers are needed. However, there are excellent opportunities in manufacturing where technology and career pathways provide for satisfying careers. Manufacturing has been a fast declining industry in the District; however, job opportunities will come about as green industries and green occupations become well defined. Manufacturing represented 1.7 percent of employment in 2008 and is projected to have 421 average annual openings and below average growth rate of 8.7 percent, adding 1,181 new jobs to reach 14,780 jobs in 2018. Over 53 percent of manufacturing employment in 2008 was in two occupations: general maintenance and repair workers (31%) and purchasing agents, except wholesale, retail, and farm produce (22%). The two occupations are also projected to account for 61 percent of job openings between 2008 and 2018. Due to specialized skills and a low-demand, manufacturing is a medium-wage industry that paid an average annual wage of \$49,776 in May 2009.

The Four Pathways

- 1. Production*
- 2. Production Planning and Control*
- 3. Manufacturing Engineering*
- 4. Industrial Maintenance*

Sample Occupations

Machinist
Manufacturing Engineer
Automated Process Technician
Production Engineer/Technician
Welding Technician
Quality Technician

14. Marketing, Sales, and Service

This career cluster prepares learners for careers in planning, managing, and performing marketing activities to reach organizational objectives. Marketing, sales, and service represented 5.7 percent of employment in 2008 and is projected to have 1,551 average annual openings and an average growth rate of 6.6 percent, adding 2,979 new jobs to reach 47,807 jobs in 2018. Thirty-eight percent of marketing, sales, and service employment in 2008 was concentrated in three occupations: retail sales (15%), cashiers (14%), and market research analysts (9%). The three occupations are also projected to account for 47 percent of job openings in marketing, sales, and service over the 10-year projection period. Marketing, sales, and service is a medium-wage career cluster that paid an average annual wage of \$54,164 in May 2009

The Seven Pathways

- 1. Management and Entrepreneurship*
- 2. Professional Sales and Marketing*
- 3. Buying and Merchandising*
- 4. Marketing Communications and Promotion*
- 5. Marketing Information Management and Research*
- 6. Distribution and Logistics*
- 7. E-Marketing*

Sample Occupations

Sales Associate
Interior Designer
Marketing Director
Buyer
Real Estate Broker
Customer Service Representative

15. Science, Technology, Engineering, and Mathematics

A career in science, technology, engineering, or mathematics is exciting, and ever-changing. Learners who pursue one of these career fields will be involved in planning, managing, and providing scientific research and professional and technical services, including laboratory and testing services, and research and development services. Given the critical nature of much of the work in this cluster, job possibilities abound even in times of economic downturn. More scientists, technologists, and engineers will be needed to meet environmental regulations and to develop methods of cleaning up existing hazards. A shift in emphasis toward preventing problems rather than controlling those that already exist, as well as increasing public health concerns, also will spur demand for these positions. Occupations in science, technology, engineering or mathematics accounted for 3.2 percent of employment in 2008 and are projected to have 990 average annual openings and an average growth rate of 8.0 percent, adding 1,991 new jobs to reach 26,997 jobs in 2018. Engineering occupations are projected to account for 32 percent of the job growth and over 20 percent of job openings in this cluster by 2018. Considering the high skills required in this cluster, high wages are the norm for most of occupations. The average annual wage was \$83,770 in May 2009, the highest of all the education career clusters.

The Two Pathways

- 1. Science and Mathematics*
- 2. Engineering and Technology*

Sample Occupations

Chemical Engineer
Mathematician
Bio Technologist
Electrical Engineer
Biologist
Oceanographer

16. Transportation, Distribution, and Logistics

This career cluster exposes students to careers and businesses involved in the planning, management, and movement of people, materials, and products by road, air, rail, and water. It also includes related professional and technical support services such as infrastructure planning and management, logistic services, and the maintenance of mobile equipment and facilities. The transportation, distribution, and logistics cluster accounted for 2.5 percent of employment in 2008 and is projected to have 591 average annual openings and an average growth rate of 5.2 percent, adding 1,005 new jobs to reach 20,394 jobs in 2018. The wages in this sector are in the medium range, and the average annual wage paid in May 2009 was \$48,742.

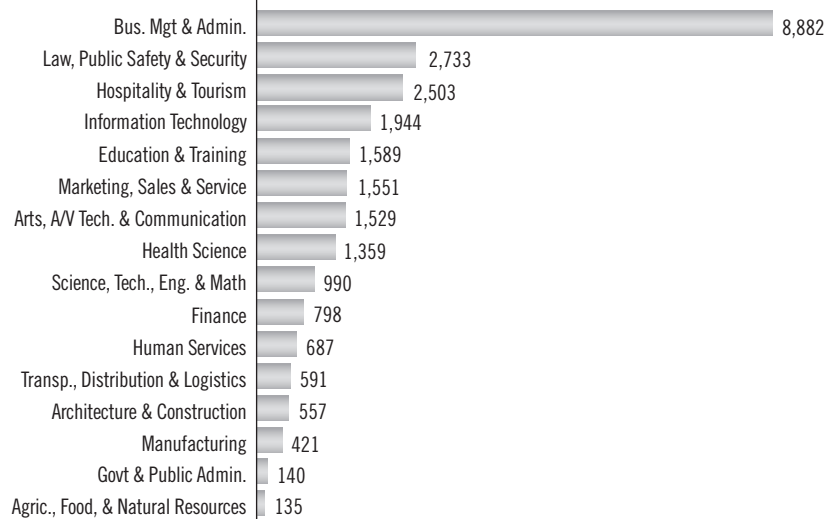
The Seven Pathways

- 1. Transportation Operations*
- 2. Logistics Planning and Management*
- 3. Warehousing and Distribution Center Operations*
- 4. Facility and Mobile Equipment Maintenance*
- 5. Transportation Systems/Infrastructure Planning, Management and Regulation*
- 6. Health, Safety and Environmental Management*
- 7. Sales and Service*

Sample Occupations

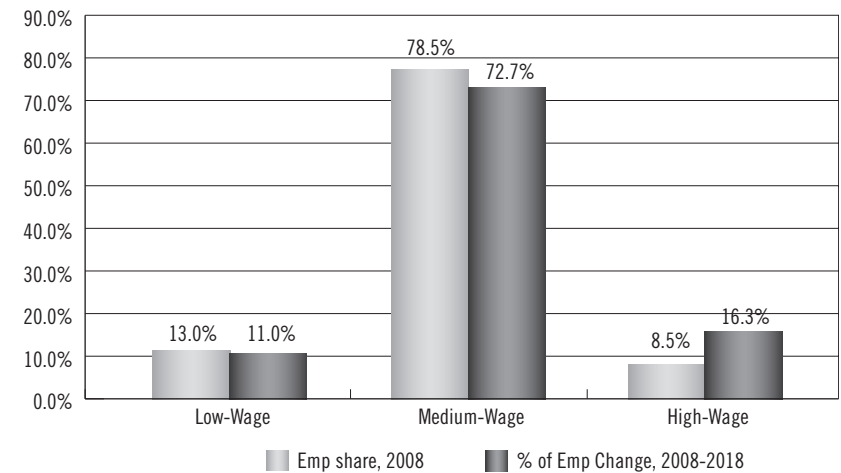
Pilot
Automotive Technician
Logistics Manager
Flight Attendant
Warehouse Manager
Truck Driver
Urban/Regional Planner

Figure 23: D.C. Average Total Openings by Education Cluster Group, Projected 2018



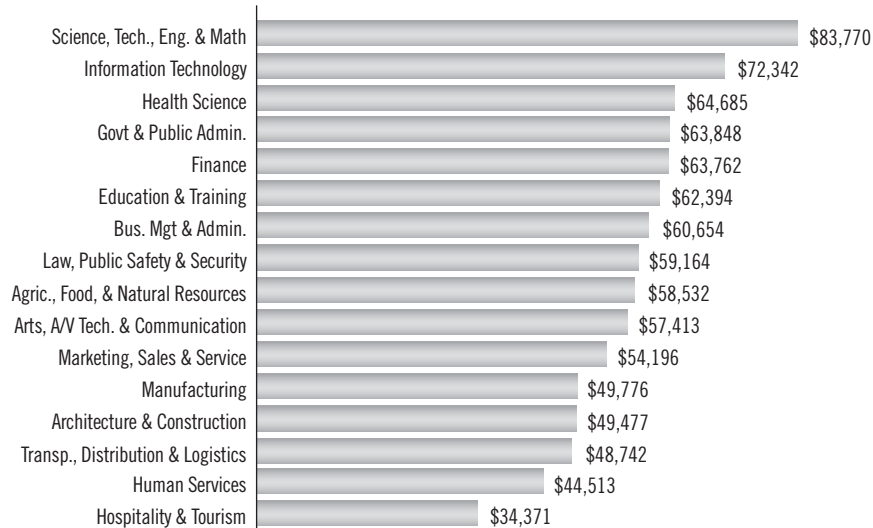
Source: DC Department of Employment Services, Office of Labor Market Research & Information

Figure 25: D.C. Share Distribution of Employment by Wage Range, 2008 and Projected 2018



Source: DC Department of Employment Services, Office of Labor Market Research & Information

Figure 24: D.C. Average Annual Wage by Education Career Cluster, May 2009*



Source: DC Department of Employment Services, Office of Labor Market Research & Information

*Bureau of Labor Statistics, Occupational Employment Statistics (OES), May 2009 Survey

Appendices

Appendix 1: Education and Training Requirement Taxonomy

1. **First professional degree:** Completion of the academic program usually requires at least 6 years of full-time equivalent academic study, including college study prior to entering the professional degree program.
2. **Doctoral degree:** Completion of the degree program usually requires at least 3 years of full-time equivalent academic work beyond the bachelor's degree.
3. **Master's degree:** Completion of the degree program usually requires 1 or 2 years of full-time equivalent study beyond the bachelor's degree.
4. **Work experience, plus a Bachelor's or higher degree:** Most occupations in this category are managerial occupations that require experience in a related non managerial position.
5. **Bachelor's degree:** Completion of the degree program generally requires at least 4 years but not more than 5 years of full-time equivalent academic work.
6. **Associate degree:** Completion of the degree program usually requires at least 2 years of full-time equivalent academic study.
7. **Post-secondary vocational training:** Some programs last only a few weeks while others may last more than a year. In some occupations, a license is needed that requires passing an examination after completion of the training.
8. **Work experience in a related occupation:** Some occupations requiring work experience are supervisory or managerial occupations.
9. **Long-term on-the-job training:** This category includes occupations that generally require more than 12 months of on-the-job training or combined work experience and formal classroom instruction for workers to develop the skills needed for average job performance. This category includes formal and informal apprenticeships that may last up to 4 years and short-term, intensive, employer-sponsored training that workers must successfully complete. Individuals undergoing training are generally considered to be employed in the occupation. This category includes occupations in which workers may gain experience in non-work activities, such as professional athletes who gain experience through participation in athletic programs in academic institutions.
10. **Moderate-term on-the-job training:** This category includes occupations in which workers can develop the skills needed for average job performance after 1 to 12 months of combined on-the-job experience and informal training.
11. **Short-term on-the-job training:** This category covers occupations in which workers can develop the skills needed for average job performance after a short demonstration or up to one month of on-the-job experience or instruction.

Appendix 2: District of Columbia Industry Detail*

NAICS 2007	Industry Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018	
		2008	2018		Numeric	Percent
000000	Total Employment, All Jobs	787,156	870,014	1.01	82,858	10.53
000671	Total Self-Employed and Unpaid Family Workers, Primary Job	68,152	67,943	-0.03	-209	-0.31
006010	Self-Employed Workers, Primary Job	67,700	67,486	-0.03	-214	-0.32
007010	Unpaid Family Workers, Primary Job	452	457	0.11	5	1.11
101000	Goods-Producing	14,538	14,393	-0.10	-145	-1.00
101200	Construction	12,928	13,448	0.40	520	4.02
101300	Manufacturing	1,610	945	-5.19	-665	-41.30
102000	Services-Providing	704,466	787,678	1.12	83,212	11.81
102100	Trade, Transportation, and Utilities	31,578	32,401	0.26	823	2.61
102200	Information	21,320	21,845	0.24	525	2.46
102300	Financial Activities	29,760	31,629	0.61	1,869	6.28
102400	Professional and Business Services	165,941	203,617	2.07	37,676	22.70
102500	Education and Health Services	114,996	132,266	1.41	17,270	15.02
102600	Leisure and Hospitality	57,664	62,293	0.78	4,629	8.03
102700	Other Services (Except Government)	69,977	76,033	0.83	6,056	8.65
102800	Government	213,230	227,594	0.65	14,364	6.74
220000	Utilities	2,324	2,079	-1.11	-245	-10.54
221000	Utilities	2,324	2,079	-1.11	-245	-10.54
230000	Construction	12,928	13,448	0.40	520	4.02
236000	Construction of Buildings	3,896	4,155	0.65	259	6.65
236100	Residential Building Construction	1,177	1,410	1.82	233	19.80
236200	Nonresidential Building Construction	2,719	2,745	0.10	26	0.96
237000	Heavy and Civil Engineering Construction	2,158	2,278	0.54	120	5.56
237100	Utility System Construction	544	604	1.05	60	11.03
237200	Land Subdivision	278	240	-1.46	-38	-13.67
237300	Highway, Street, and Bridge Construction	1,286	1,373	0.66	87	6.77
237900	Other Heavy and Civil Engineering Construction	50	61	2.01	11	22.00
238000	Specialty Trade Contractors	6,874	7,015	0.20	141	2.05
238100	Foundation, Structure, and Building Exterior Contractors	2,269	2,610	1.41	341	15.03
238200	Building Equipment Contractors	3,132	2,881	-0.83	-251	-8.01
238300	Building Finishing Contractors	1,149	1,136	-0.11	-13	-1.13
238900	Other Specialty Trade Contractors	324	388	1.82	64	19.75
310000	Manufacturing	1,610	945	-5.19	-665	-41.30
420000	Wholesale Trade	5,066	5,434	0.70	368	7.26

Appendix 2 continued on the next page

Appendix 2: District of Columbia Industry Detail* (continued)

NAICS 2007	Industry Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018	
		2008	2018		Numeric	Percent
423000	Merchant Wholesalers, Durable Goods	1,990	1,969	-0.11	-21	-1.06
424000	Merchant Wholesalers, Nondurable Goods	1,815	1,869	0.29	54	2.98
425000	Wholesale Electronic Markets and Agents and Brokers	1,261	1,596	2.38	335	26.57
440000	Retail Trade	18,463	18,709	0.13	246	1.33
441000	Motor Vehicle and Parts Dealers	282	274	-0.29	-8	-2.84
442000	Furniture and Home Furnishings Stores	876	921	0.50	45	5.14
443000	Electronics and Appliance Stores	537	466	-1.41	-71	-13.22
444000	Building Material and Garden Equipment and Supplies Dealers	721	762	0.55	41	5.69
445000	Food and Beverage Stores	5,740	5,687	-0.09	-53	-0.92
446000	Health and Personal Care Stores	2,370	2,393	0.10	23	0.97
447000	Gasoline Stations	450	410	-0.93	-40	-8.89
448000	Clothing and Clothing Accessories Stores	3,343	3,465	0.36	122	3.65
451000	Sporting Goods, Hobby, Book, and Music Stores	1,372	1,440	0.48	68	4.96
452000	General Merchandise Stores	1,281	1,468	1.37	187	14.60
453000	Miscellaneous Store Retailers	1,270	1,255	-0.12	-15	-1.18
454000	Non store Retailers	221	168	-2.70	-53	-23.98
480000	Transportation and Warehousing	5,725	6,179	0.77	454	7.93
481000	Air Transportation	109	74	-3.80	-35	-32.11
482000	Rail Transportation	**	**	**	**	**
482100	Rail Transportation	**	**	**	**	**
483000	Water Transportation	142	146	0.28	4	2.82
484000	Truck Transportation	161	153	-0.51	-8	-4.97
485000	Transit and Ground Passenger Transport	4,669	5,240	1.16	571	12.23
487000	Scenic and Sightseeing Transportation	**	**	**	**	**
487100	Scenic and Sightseeing Transportation, Land	**	**	**	**	**
488000	Support Activities for Transportation	73	86	1.65	13	17.81
491100	Postal Service	5,174	4,806	-0.74	-368	-7.11
492000	Couriers and Messengers	571	480	-1.72	-91	-15.94
493000	Warehousing and Storage	**	**	**	**	**
493100	Warehousing and Storage	**	**	**	**	**
510000	Information	21,320	21,845	0.24	525	2.46
511000	Publishing Industries	7,296	6,290	-1.47	-1,006	-13.79
511100	Newspaper, Periodical, Book, and Directory Publishers	6,451	5,192	-2.15	-1,259	-19.52
511200	Software Publishers	845	1,098	2.65	253	29.94

Appendix 2 continued on the next page

Appendix 2: District of Columbia Industry Detail* (continued)

NAICS 2007	Industry Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018	
		2008	2018		Numeric	Percent
512000	Motion Picture and Sound Recording Industries	1,135	1,031	-0.96	-104	-9.16
512100	Motion Picture and Video Industries	1,108	1,011	-0.91	-97	-8.75
512200	Sound Recording Industries	27	20	-2.96	-7	-25.93
515000	Broadcasting (except Internet)	4,797	5,039	0.49	242	5.04
515100	Radio and Television Broadcasting	4,304	4,429	0.29	125	2.90
515200	Cable and Other Subscription Programming	493	610	2.15	117	23.73
516000	Internet Publishing and Broadcasting	200	442	8.25	242	121.00
516100	Internet Publishing and Broadcasting	200	442	8.25	242	121.00
517000	Telecommunications	3,662	3,335	-0.93	-327	-8.93
518000	Internet Service Providers, Web Search Portals, and Data Providers	778	1,186	4.31	408	52.44
519000	Other Information Services	3,452	4,522	2.74	1,070	31.00
520000	Finance and Insurance	18,311	19,115	0.43	804	4.39
522000	Credit Intermediation and Related Activities	8,166	8,244	0.10	78	0.96
522100	Depository Credit Intermediation	3,702	3,991	0.75	289	7.81
522200	Nondepository Credit Intermediation	4,027	3,766	-0.67	-261	-6.48
522300	Activities Related to Credit Intermediation	437	487	1.09	50	11.44
523000	Securities, Commodity Contracts, and Other Financial Investment	2,798	3,120	1.10	322	11.51
524000	Insurance Carriers and Related Activities	6,021	6,194	0.28	173	2.87
525000	Funds, Trusts, and Other Financial Vehicles	1,326	1,557	1.62	231	17.42
530000	Real Estate and Rental and Leasing	11,449	12,514	0.89	1,065	9.30
531000	Real Estate	10,304	11,298	0.93	994	9.65
531100	Lessors of Real Estate	3,159	3,465	0.93	306	9.69
531200	Offices of Real Estate Agents and Brokers	1,335	1,316	-0.14	-19	-1.42
531300	Activities Related to Real Estate	5,810	6,517	1.16	707	12.17
532000	Rental and Leasing Services	1,145	1,216	0.60	71	6.20
532100	Automotive Equipment Rental and Leasing	492	542	0.97	50	10.16
532200	Consumer Goods Rental	424	439	0.35	15	3.54
532300	General Rental Centers	126	130	0.31	4	3.17
532400	Commercial and Industrial Machinery and Equipment Rental and Leasing	103	105	0.19	2	1.94
540000	Professional, Scientific, and Technical Services	105,154	131,412	2.25	26,258	24.97
541000	Professional, Scientific, and Technical Services	105,154	131,412	2.25	26,258	24.97
541100	Legal Services	35,621	43,341	1.98	7,720	21.67
541200	Accounting, Tax Preparation, Bookkeeping, and Payroll Services	4,817	5,819	1.91	1,002	20.80
541300	Architectural, Engineering, and Related Services	8,251	9,886	1.82	1,635	19.82

Appendix 2 continued on the next page

Appendix 2: District of Columbia Industry Detail* (continued)

NAICS 2007	Industry Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018	
		2008	2018		Numeric	Percent
541400	Specialized Design Services	809	738	-0.91	-71	-8.78
541500	Computer Systems Design and Related Services	17,770	28,978	5.01	11,208	63.07
541600	Management, Scientific, and Technical Consulting Services	15,697	18,410	1.61	2,713	17.28
541700	Scientific Research and Development Services	12,633	13,645	0.77	1,012	8.01
541800	Advertising and Related Services	7,742	8,383	0.80	641	8.28
541900	Other Professional, Scientific, and Technical Services	1,814	2,212	2.00	398	21.94
550000	Management of Companies and Enterprises	1,574	1,659	0.53	85	5.40
551000	Management of Companies and Enterprises	1,574	1,659	0.53	85	5.40
560000	Administrative and Support and Waste Management and Remediation	59,213	70,546	1.77	11,333	19.14
561000	Administrative and Support Services	58,298	69,471	1.77	11,173	19.17
561100	Office Administrative Services	5,255	6,282	1.80	1,027	19.54
561200	Facilities Support Services	3,085	4,025	2.70	940	30.47
561300	Employment Services	17,174	20,444	1.76	3,270	19.04
561400	Business Support Services	3,628	4,177	1.42	549	15.13
561500	Travel Arrangement and Reservation Services	1,659	2,010	1.94	351	21.16
561600	Investigation and Security Services	11,183	13,319	1.76	2,136	19.10
561700	Services to Buildings and Dwellings	15,753	18,623	1.69	2,870	18.22
561900	Other Support Services	561	591	0.52	30	5.35
562000	Waste Management and Remediation Service	915	1,075	1.62	160	17.49
610000	Educational Services	59,036	67,197	1.30	8,161	13.82
611000	Educational Services	59,036	67,197	1.30	8,161	13.82
611100	Elementary and Secondary Schools	19,573	21,540	0.96	1,967	10.05
611200	Junior Colleges	**	**	**	**	**
611300	Colleges, Universities, and Professional Schools	34,900	39,169	1.16	4,269	12.23
611400	Business Schools and Computer and Management Training	686	623	-0.96	-63	-9.18
611500	Technical and Trade Schools	153	231	4.21	78	50.98
611600	Other Schools and Instruction	1,980	2,862	3.75	882	44.55
611700	Educational Support Services	1,744	2,772	4.74	1,028	58.95
620000	Health Care and Social Assistance	55,960	65,069	1.52	9,109	16.28
621000	Ambulatory Health Care Services	13,175	17,674	2.98	4,499	34.15
621100	Offices of Physicians	3,983	5,336	2.97	1,353	33.97
621200	Offices of Dentists	1,503	1,931	2.54	428	28.48
621300	Offices of Other Health Practitioners	601	534	-1.18	-67	-11.15
621400	Outpatient Care Centers	3,473	4,811	3.31	1,338	38.53

Appendix 2 continued on the next page

Appendix 2: District of Columbia Industry Detail* (continued)

NAICS 2007	Industry Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018	
		2008	2018		Numeric	Percent
621500	Medical and Diagnostic Laboratories	215	300	3.39	85	39.53
621600	Home Health Care Services	2,879	4,206	3.86	1,327	46.09
621900	Other Ambulatory Health Care Services	521	556	0.65	35	6.72
622000	Hospitals	24,710	26,201	0.59	1,491	6.03
623000	Nursing and Residential Care Facilities	6,985	7,363	0.53	378	5.41
624000	Social Assistance	11,090	13,831	2.23	2,741	24.72
710000	Arts, Entertainment, and Recreation	7,048	8,171	1.49	1,123	15.93
711000	Performing Arts, Spectator Sports, and Related Industries	3,612	4,168	1.44	556	15.39
712000	Museums, Historical Sites, and Similar Institution	1,160	1,387	1.80	227	19.57
713000	Amusement, Gambling, and Recreation Industries	2,276	2,616	1.40	340	14.94
720000	Accommodation and Food Services	50,616	54,122	0.67	3,506	6.93
721000	Accommodation	15,024	15,813	0.51	789	5.25
722000	Food Services and Drinking Places	35,592	38,309	0.74	2,717	7.63
810000	Other Services (Except Government)	69,977	76,033	0.83	6,056	8.65
811000	Repair and Maintenance	700	525	-2.84	-175	-25.00
812000	Personal and Laundry Services	6,303	6,792	0.75	489	7.76
813000	Religious, Grants making, Civic, Professional, and Similar Organizations	58,283	63,413	0.85	5,130	8.80
814000	Private Households	4,691	5,303	1.23	612	13.05
814100	Private Households	4,691	5,303	1.23	612	13.05
900000	Government	213,230	227,594	0.65	14,364	6.74
910000	Total Federal Government Employment	193,776	206,606	0.64	12,830	6.62
920000	Total state government	19,454	20,988	0.76	1,534	7.89
999100	Federal Government, Excluding Post Office	188,602	201,800	0.68	13,198	7.00
999200	State Government, Excluding Education and Hospitals	19,454	20,988	0.76	1,534	7.89

Note: *District of Columbia 2008-2018 Industry and Occupational Projections

**Not available or nondisclosable

Source: Department of Employment Services, Office of Labor Market Research and Information

Appendix 3: District of Columbia Occupational Detail*

SOC	Occupational Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018		Average Annual Openings		
		2008	2018		Numeric	Percent	Growth	Replacement	Total
00-0000	Total, All Occupations	787,156	870,014	1.0%	82,858	10.5%	8,711	17,692	26,403
11-0000	Management Occupations	113,477	118,432	0.4%	4,955	4.4%	507	2,849	3,356
11-1000	Top Executives	39,277	39,253	0.0%	-24	-0.1%	5	1,132	1,137
11-1011	Chief Executives	7,039	6,969	-0.1%	-70	-1.0%	0	198	198
11-1021	General and Operations Managers	32,229	32,275	0.0%	46	0.1%	5	934	939
11-1031	Legislators	**	**	***	***	***	***	***	**
11-2000	Advertising, Marketing, Promotions, Public Relations, and Sales Managers	5,673	6,372	1.2%	699	12.3%	72	128	200
11-2011	Advertising and Promotions Managers	663	639	-0.4%	-24	-3.6%	0	16	16
11-2021	Marketing Managers	1,125	1,264	1.2%	139	12.4%	14	24	38
11-2022	Sales Managers	1,297	1,569	1.9%	272	21.0%	27	28	55
11-2031	Public Relations Managers	2,588	2,900	1.1%	312	12.1%	31	61	92
11-3000	Operations Specialties Managers	19,362	21,651	1.1%	2,289	11.8%	231	379	610
11-3011	Administrative Services Managers	4,096	4,676	1.3%	580	14.2%	58	86	144
11-3021	Computer and Information Systems Managers	4,063	4,819	1.7%	756	18.6%	76	66	142
11-3031	Financial Managers	7,614	8,304	0.9%	690	9.1%	69	137	206
11-3041	Compensation and Benefits Managers	522	598	1.4%	76	14.6%	8	11	19
11-3042	Training and Development Managers	135	153	1.3%	18	13.3%	2	3	5
11-3049	Human Resources Managers, All Other	921	1,010	0.9%	89	9.7%	9	20	29
11-3051	Industrial Production Managers	21	20	-0.5%	-1	-4.8%	0	1	1
11-3061	Purchasing Managers	1,617	1,720	0.6%	103	6.4%	10	46	56
11-3071	Transportation, Storage, and Distribution Managers	373	351	-0.6%	-22	-5.9%	0	10	10
11-9000	Other Management Occupations	49,165	51,156	0.4%	1,991	4.0%	199	1,210	1,409
11-9021	Construction Managers	1,080	1,176	0.9%	96	8.9%	10	8	18
11-9031	Education Administrators, Preschool and Child Care Center/Program	379	421	1.1%	42	11.1%	4	11	15
11-9032	Education Administrators, Elementary and Secondary School	855	927	0.8%	72	8.4%	7	26	33
11-9033	Education Administrators, Postsecondary	1,180	1,245	0.5%	65	5.5%	7	35	42
11-9039	Education Administrators, All Other	737	814	1.0%	77	10.4%	8	22	30
11-9041	Engineering Managers	1,932	2,082	0.8%	150	7.8%	15	39	54
11-9051	Food Service Managers	963	978	0.2%	15	1.6%	2	19	21
11-9061	Funeral Directors	48	49	0.2%	1	2.1%	0	1	1
11-9081	Lodging Managers	330	342	0.4%	12	3.6%	1	7	8

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Appendix 3: District of Columbia Occupational Detail* (continued)

SOC	Occupational Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018		Average Annual Openings		
		2008	2018		Numeric	Percent	Growth	Replacement	Total
11-9111	Medical and Health Services Managers	2,253	2,438	0.8%	185	8.2%	19	43	62
11-9121	Natural Sciences Managers	1,161	1,252	0.8%	91	7.8%	9	34	43
11-9131	Postmasters and Mail Superintendents	**	**	***	***	***	***	***	**
11-9141	Property, Real Estate, and Community Association Managers	2,234	2,370	0.6%	136	6.1%	14	39	53
11-9151	Social and Community Service Managers	1,244	1,379	1.0%	135	10.9%	14	29	43
11-9199	Managers, All Other	34,765	35,679	0.3%	914	2.6%	91	897	988
13-0000	Business and Financial Operations Occupations	103,371	116,680	1.2%	13,309	12.9%	1,331	2,079	3,410
13-1000	Business Operations Specialists	78,789	87,942	1.1%	9,153	11.6%	915	1,657	2,572
13-1011	Agents and Business Managers of Artists, Performers, and Athletes	76	92	1.9%	16	21.1%	2	2	4
13-1021	Purchasing Agents and Buyers, Farm Products	69	72	0.4%	3	4.3%	0	2	2
13-1022	Wholesale and Retail Buyers, Except Farm Products	77	82	0.6%	5	6.5%	1	2	3
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	2,990	3,495	1.6%	505	16.9%	51	79	130
13-1031	Claims Adjusters, Examiners, and Investigators	893	1,020	1.3%	127	14.2%	13	23	36
13-1041	Compliance Officers, Except Agriculture, Construction, Health and Safety & Transportation	3,223	4,166	2.6%	943	29.3%	94	34	128
13-1051	Cost Estimators	191	223	1.6%	32	16.8%	3	4	7
13-1061	Emergency Management Specialists	55	64	1.5%	9	16.4%	1	1	2
13-1071	Employment, Recruitment, and Placement Specialists	2,483	3,144	2.4%	661	26.6%	66	65	131
13-1072	Compensation, Benefits, and Job Analysis Specialists	1,297	1,628	2.3%	331	25.5%	33	34	67
13-1073	Training and Development Specialists	1,346	1,703	2.4%	357	26.5%	36	35	71
13-1079	Human Resources, Training, and Labor Relations Specialists, All Others	4,854	5,720	1.7%	866	17.8%	87	127	214
13-1081	Logisticians	822	1,010	2.1%	188	22.9%	19	18	37
13-1111	Management Analysts	21,715	23,589	0.8%	1,874	8.6%	187	373	560
13-1121	Meeting and Convention Planners	2,303	2,588	1.2%	285	12.4%	29	51	80
13-1199	Business Operations Specialists, All Other	36,384	39,335	0.8%	2,951	8.1%	295	808	1,103
13-2000	Financial Specialists	24,582	28,738	1.6%	4,156	16.9%	416	422	838
13-2011	Accountants and Auditors	13,485	15,879	1.6%	2,394	17.8%	239	228	467
13-2021	Appraisers and Assessors of Real Estate	164	168	0.2%	4	2.4%	0	3	3
13-2031	Budget Analysts	2,642	3,074	1.5%	432	16.4%	43	48	91
13-2041	Credit Analysts	211	230	0.9%	19	9.0%	2	4	6
13-2051	Financial Analysts	2,121	2,648	2.2%	527	24.8%	53	39	92
13-2052	Personal Financial Advisors	966	1,231	2.5%	265	27.4%	27	10	37

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Appendix 3: District of Columbia Occupational Detail* (continued)

SOC	Occupational Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018		Average Annual Openings		
		2008	2018		Numeric	Percent	Growth	Replacement	Total
13-2053	Insurance Underwriters	118	113	-0.4%	-5	-4.2%	0	3	3
13-2061	Financial Examiners	437	609	3.4%	172	39.4%	17	8	25
13-2071	Loan Counselors	99	125	2.4%	26	26.3%	3	1	4
13-2072	Loan Officers	782	834	0.6%	52	6.6%	5	9	14
13-2081	Tax Examiners, Collectors, and Revenue Agents	317	359	1.3%	42	13.2%	4	11	15
13-2082	Tax Preparers	306	318	0.4%	12	3.9%	1	5	6
13-2099	Financial Specialists, All Other	2,934	3,150	0.7%	216	7.4%	22	53	75
15-0000	Computer and Mathematical Occupations	38,412	48,935	2.5%	10,523	27.4%	1,052	764	1,816
15-1000	Computer Specialists	35,645	45,835	2.5%	10,190	28.6%	1,019	683	1,702
15-1011	Computer and Information Scientists, Research	428	498	1.5%	70	16.4%	7	9	16
15-1021	Computer Programmers	3,086	3,275	0.6%	189	6.1%	19	58	77
15-1031	Computer Software Engineers, Applications	3,149	5,036	4.8%	1,887	59.9%	189	27	216
15-1032	Computer Software Engineers, Systems Software	1,936	2,836	3.9%	900	46.5%	90	16	106
15-1041	Computer Support Specialists	4,413	5,313	1.9%	900	20.4%	90	122	212
15-1051	Computer Systems Analysts	4,069	5,456	3.0%	1,387	34.1%	139	88	227
15-1061	Database Administrators	1,450	1,924	2.9%	474	32.7%	47	24	71
15-1071	Network and Computer Systems Administrators	4,135	5,902	3.6%	1,767	42.7%	177	69	246
15-1081	Network Systems and Data Communications Analysts	2,733	4,546	5.2%	1,813	66.3%	181	49	230
15-1099	Computer Specialists, All Other	10,246	11,049	0.8%	803	7.8%	80	221	301
15-2000	Mathematical Scientists	2,767	3,100	1.1%	333	12.0%	33	81	114
15-2011	Actuaries	317	348	0.9%	31	9.8%	3	9	12
15-2021	Mathematicians	**	**	***	***	***	0	2	**
15-2031	Operations Research Analysts	1,304	1,525	1.6%	221	16.9%	22	38	60
15-2041	Statisticians	1,049	1,123	0.7%	74	7.1%	7	31	38
15-2099	Mathematical Science Occupations, All Other	**	**	***	***	***	***	***	**
17-0000	Architecture and Engineering Occupations	14,867	16,903	1.3%	2,036	13.7%	204	307	511
17-1000	Architects, Surveyors, and Cartographers	3,240	3,678	1.3%	438	13.5%	44	56	100
17-1011	Architects, Except Landscape and Naval	2,973	3,377	1.3%	404	13.6%	40	50	90
17-1012	Landscape Architects	138	160	1.5%	22	15.9%	2	2	4
17-1021	Cartographers and Photogrammetrists	**	**	***	***	***	***	***	**
17-1022	Surveyors	109	117	0.7%	8	7.3%	1	3	4

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Appendix 3: District of Columbia Occupational Detail* (continued)

SOC	Occupational Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018		Average Annual Openings		
		2008	2018		Numeric	Percent	Growth	Replacement	Total
17-2000	Engineers	9,433	10,767	1.3%	1,334	14.1%	133	208	341
17-2011	Aerospace Engineers	449	549	2.0%	100	22.3%	10	9	19
17-2021	Agricultural Engineers	**	**	***	***	***	***	***	**
17-2031	Biomedical Engineers	53	85	4.8%	32	60.4%	3	1	4
17-2041	Chemical Engineers	127	138	0.8%	11	8.7%	1	3	4
17-2051	Civil Engineers	791	892	1.2%	101	12.8%	10	13	23
17-2061	Computer Hardware Engineers	832	1,175	3.5%	343	41.2%	34	23	57
17-2071	Electrical Engineers	543	584	0.7%	41	7.6%	4	13	17
17-2072	Electronics Engineers, Except Computer	900	951	0.6%	51	5.7%	5	21	26
17-2081	Environmental Engineers	503	560	1.1%	57	11.3%	6	10	16
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	82	91	1.0%	9	11.0%	1	2	3
17-2112	Industrial Engineers	309	422	3.2%	113	36.6%	11	8	19
17-2121	Marine Engineers and Naval Architects	302	326	0.8%	24	7.9%	2	6	8
17-2131	Materials Engineers	79	94	1.8%	15	19.0%	2	2	4
17-2141	Mechanical Engineers	725	855	1.7%	130	17.9%	13	19	32
17-2151	Mining and Geological Engineers, Including Mining Safety Engineer	**	**	***	***	***	***	***	**
17-2161	Nuclear Engineers	**	**	***	***	***	***	***	**
17-2171	Petroleum Engineers	**	**	***	***	***	***	***	**
17-2199	Engineers, All Other	**	**	***	***	***	***	***	**
17-3000	Drafters, Engineering, and Mapping Technicians	2,194	2,458	1.1%	264	12.0%	27	43	70
17-3011	Architectural and Civil Drafters	619	668	0.8%	49	7.9%	5	13	18
17-3012	Electrical and Electronics Drafters	**	**	***	***	***	***	***	**
17-3013	Mechanical Drafters	**	**	***	***	***	***	***	**
17-3019	Drafters, All Other	**	**	***	***	***	***	***	**
17-3022	Civil Engineering Technicians	290	317	0.9%	27	9.3%	3	6	9
17-3023	Electrical and Electronic Engineering Technicians	476	580	2.0%	104	21.8%	10	9	19
17-3025	Environmental Engineering Technicians	62	77	2.2%	15	24.2%	2	1	3
17-3026	Industrial Engineering Technicians	**	**	***	***	***	***	***	**
17-3027	Mechanical Engineering Technicians	**	**	***	***	***	***	***	**
17-3029	Engineering Technicians, Except Drafters, All Other	538	577	0.7%	39	7.2%	4	10	14
17-3031	Surveying and Mapping Technicians	**	**	***	***	***	***	***	**

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Appendix 3: District of Columbia Occupational Detail* (continued)

SOC	Occupational Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018		Average Annual Openings		
		2008	2018		Numeric	Percent	Growth	Replacement	Total
19-0000	Life, Physical, and Social Science Occupations	26,750	29,927	1.1%	3,177	11.9%	340	906	1,246
19-1000	Life Scientists	1,854	2,193	1.7%	339	18.3%	34	48	82
19-1011	Animal Scientists	**	**	***	***	***	***	***	**
19-1012	Food Scientists and Technologists	80	97	1.9%	17	21.3%	2	3	5
19-1013	Soil and Plant Scientists	173	187	0.8%	14	8.1%	1	6	7
19-1021	Biochemists and Biophysicists	80	103	2.6%	23	28.8%	2	3	5
19-1022	Microbiologists	149	159	0.7%	10	6.7%	1	5	6
19-1023	Zoologists and Wildlife Biologists	145	154	0.6%	9	6.2%	1	5	6
19-1029	Biological Scientists, All Other	402	477	1.7%	75	18.7%	8	13	21
19-1031	Conservation Scientists	219	233	0.6%	14	6.4%	1	2	3
19-1032	Foresters	**	**	***	***	***	***	***	**
19-1041	Epidemiologists	35	39	1.1%	4	11.4%	0	1	1
19-1042	Medical Scientists, Except Epidemiologists	515	683	2.9%	168	32.6%	17	10	27
19-1099	Life Scientists, All Other	28	31	1.0%	3	10.7%	0	1	1
19-2000	Physical Scientists	4,267	4,598	0.7%	331	7.8%	34	120	154
19-2011	Astronomers	95	104	0.9%	9	9.5%	1	3	4
19-2012	Physicists	625	671	0.7%	46	7.4%	5	18	23
19-2021	Atmospheric and Space Scientists	76	82	0.8%	6	7.9%	1	2	3
19-2031	Chemists	427	457	0.7%	30	7.0%	3	14	17
19-2032	Materials Scientists	34	38	1.1%	4	11.8%	0	1	1
19-2041	Environmental Scientists and Specialists, Including Health	1,757	1,906	0.8%	149	8.5%	15	50	65
19-2042	Geoscientists, Except Hydrologists and Geographers	159	169	0.6%	10	6.3%	1	5	6
19-2043	Hydrologists	76	71	-0.7%	-5	-6.6%	0	2	2
19-2099	Physical Scientists, All Other	1,018	1,100	0.8%	82	8.1%	8	26	34
19-3000	Social Scientists and Related Workers	18,861	21,170	1.2%	2,309	12.2%	253	664	917
19-3011	Economists	5,277	5,154	-0.2%	-123	-2.3%	0	150	150
19-3021	Market Research Analysts	4,042	4,976	2.1%	934	23.1%	93	109	202
19-3022	Survey Researchers	820	1,053	2.5%	233	28.4%	23	22	45
19-3031	Clinical, Counseling, and School Psychologists	779	817	0.5%	38	4.9%	4	22	26
19-3032	Industrial-Organizational Psychologists	148	156	0.5%	8	5.4%	1	4	5
19-3039	Psychologists, All Other	228	241	0.6%	13	5.7%	1	7	8

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Appendix 3: District of Columbia Occupational Detail* (continued)

SOC	Occupational Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018		Average Annual Openings		
		2008	2018		Numeric	Percent	Growth	Replacement	Total
19-3041	Sociologists	667	740	1.0%	73	10.9%	7	13	20
19-3051	Urban and Regional Planners	249	283	1.3%	34	13.7%	3	5	8
19-3091	Anthropologists and Archeologists	54	64	1.7%	10	18.5%	1	3	4
19-3092	Geographers	**	**	***	***	***	***	***	**
19-3093	Historians	542	444	-2.0%	-98	-18.1%	0	27	27
19-3094	Political Scientists	2,841	3,336	1.6%	495	17.4%	50	142	192
19-3099	Social Scientists and Related Workers, All Other	3,197	3,886	2.0%	689	21.6%	69	160	229
19-4000	Life, Physical, and Social Science Technicians	1,768	1,966	1.1%	198	11.2%	20	73	93
19-4011	Agricultural and Food Science Technicians	**	**	***	***	***	***	***	**
19-4021	Biological Technicians	134	149	1.1%	15	11.2%	2	5	7
19-4031	Chemical Technicians	22	22	0.0%	0	0.0%	0	0	0
19-4061	Social Science Research Assistants	799	874	0.9%	75	9.4%	8	34	42
19-4091	Environmental Science and Protection Technicians, Including Health	166	195	1.6%	29	17.5%	3	7	10
19-4092	Forensic Science Technicians	191	232	2.0%	41	21.5%	4	8	12
19-4099	Life, Physical, and Social Science Technicians, All Other	318	340	0.7%	22	6.9%	2	14	16
21-0000	Community and Social Services Occupations	11,677	13,577	1.5%	1,900	16.3%	190	258	448
21-1000	Counselors, Social Workers, and Other Community and Social Service	11,184	13,037	1.5%	1,853	16.6%	185	248	433
21-1011	Substance Abuse and Behavioral Disorder Counselors	436	513	1.6%	77	17.7%	8	9	17
21-1012	Educational, Vocational, and School Counselors	1,748	2,102	1.9%	354	20.3%	35	35	70
21-1013	Marriage and Family Therapists	**	**	**	**	**	0	0	**
21-1014	Mental Health Counselors	453	534	1.7%	81	17.9%	8	9	17
21-1015	Rehabilitation Counselors	926	992	0.7%	66	7.1%	7	19	26
21-1019	Counselors, All Other	23	26	1.2%	3	13.0%	0	1	1
21-1021	Child, Family, and School Social Workers	1,473	1,626	1.0%	153	10.4%	15	37	52
21-1022	Medical and Public Health Social Workers	388	445	1.4%	57	14.7%	6	10	16
21-1023	Mental Health and Substance Abuse Social Workers	1,176	1,318	1.1%	142	12.1%	14	30	44
21-1029	Social Workers, All Other	601	660	0.9%	59	9.8%	6	15	21
21-1091	Health Educators	804	909	1.2%	105	13.1%	11	17	28
21-1092	Probation Officers and Correctional Treatment Specialists	131	165	2.3%	34	26.0%	3	3	6
21-1093	Social and Human Service Assistants	2,109	2,687	2.5%	578	27.4%	58	45	103
21-1099	Community and Social Service Specialists, All Other	897	1,040	1.5%	143	15.9%	14	19	33

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Appendix 3: District of Columbia Occupational Detail* (continued)

SOC	Occupational Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018		Average Annual Openings		
		2008	2018		Numeric	Percent	Growth	Replacement	Total
21-2000	Religious Workers	493	540	0.9%	47	9.5%	5	10	15
21-2011	Clergy	292	322	1.0%	30	10.3%	3	6	9
21-2021	Directors, Religious Activities and Education	197	214	0.8%	17	8.6%	2	4	6
21-2099	Religious Workers, All Other	**	**	***	***	***	***	***	**
23-0000	Legal Occupations	53,524	59,771	1.1%	6,247	11.7%	625	933	1,558
23-1000	Lawyers, Judges, and Related Workers	42,954	46,697	0.8%	3,743	8.7%	374	803	1,177
23-1011	Lawyers	42,418	46,120	0.8%	3,702	8.7%	370	793	1,163
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	365	390	0.7%	25	6.8%	3	7	10
23-1022	Arbitrators, Mediators, and Conciliators	171	187	0.9%	16	9.4%	2	3	5
23-2000	Legal Support Workers	10,570	13,074	2.1%	2,504	23.7%	251	131	382
23-2011	Paralegals and Legal Assistants	7,518	9,528	2.4%	2,010	26.7%	201	85	286
23-2091	Court Reporters	977	1,237	2.4%	260	26.6%	26	14	40
23-2092	Law Clerks	602	716	1.7%	114	18.9%	11	9	20
23-2093	Title Examiners, Abstractors, and Searchers	**	**	***	***	***	***	***	**
23-2099	Legal Support Workers, All Other	1,455	1,578	0.8%	123	8.5%	12	22	34
25-0000	Education, Training, and Library Occupations	41,090	46,759	1.3%	5,669	13.8%	567	826	1,393
25-1000	Postsecondary Teachers	15,633	17,893	1.4%	2,260	14.5%	226	272	498
25-1011	Business Teachers, Postsecondary	1,386	1,614	1.5%	228	16.5%	23	24	47
25-1021	Computer Science Teachers, Postsecondary	350	406	1.5%	56	16.0%	6	6	12
25-1022	Mathematical Science Teachers, Postsecondary	448	515	1.4%	67	15.0%	7	8	15
25-1031	Architecture Teachers, Postsecondary	421	484	1.4%	63	15.0%	6	7	13
25-1032	Engineering Teachers, Postsecondary	459	528	1.4%	69	15.0%	7	8	15
25-1041	Agricultural Sciences Teachers, Postsecondary	**	**	***	***	***	***	***	**
25-1042	Biological Science Teachers, Postsecondary	296	341	1.4%	45	15.2%	5	5	10
25-1043	Forestry and Conservation Science Teachers, Postsecondary	**	**	***	***	***	***	***	**
25-1051	Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary	**	**	***	***	***	***	***	**
25-1052	Chemistry Teachers, Postsecondary	155	178	1.4%	23	14.8%	2	3	5
25-1053	Environmental Science Teachers, Postsecondary	**	**	***	***	***	***	***	**
25-1054	Physics Teachers, Postsecondary	138	158	1.4%	20	14.5%	2	2	4
25-1061	Anthropology and Archeology Teachers, Postsecondary	92	106	1.4%	14	15.2%	1	2	3
25-1062	Area, Ethnic, and Cultural Studies Teachers, Postsecondary	127	146	1.4%	19	15.0%	2	2	4

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Appendix 3: District of Columbia Occupational Detail* (continued)

SOC	Occupational Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018		Average Annual Openings		
		2008	2018		Numeric	Percent	Growth	Replacement	Total
25-1063	Economics Teachers, Postsecondary	272	313	1.4%	41	15.1%	4	5	9
25-1064	Geography Teachers, Postsecondary	33	38	1.4%	5	15.2%	1	1	2
25-1065	Political Science Teachers, Postsecondary	834	960	1.4%	126	15.1%	13	15	28
25-1066	Psychology Teachers, Postsecondary	363	417	1.4%	54	14.9%	5	6	11
25-1067	Sociology Teachers, Postsecondary	141	162	1.4%	21	14.9%	2	3	5
25-1071	Health Specialties Teachers, Postsecondary	2,849	3,057	0.7%	208	7.3%	21	50	71
25-1072	Nursing Instructors and Teachers, Postsecondary	682	782	1.4%	100	14.7%	10	12	22
25-1081	Education Teachers, Postsecondary	407	468	1.4%	61	15.0%	6	7	13
25-1082	Library Science Teachers, Postsecondary	**	**	***	***	***	***	***	**
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	213	245	1.4%	32	15.0%	3	4	7
25-1112	Law Teachers, Postsecondary	873	1,003	1.4%	130	14.9%	13	15	28
25-1113	Social Work Teachers, Postsecondary	371	426	1.4%	55	14.8%	6	7	13
25-1121	Art, Drama, and Music Teachers, Postsecondary	797	969	2.0%	172	21.6%	17	14	31
25-1122	Communications Teachers, Postsecondary	523	604	1.5%	81	15.5%	8	9	17
25-1123	English Language and Literature Teachers, Postsecondary	785	903	1.4%	118	15.0%	12	14	26
25-1124	Foreign Language and Literature Teachers, Postsecondary	384	461	1.8%	77	20.1%	8	7	15
25-1125	History Teachers, Postsecondary	246	283	1.4%	37	15.0%	4	4	8
25-1126	Philosophy and Religion Teachers, Postsecondary	247	284	1.4%	37	15.0%	4	4	8
25-1191	Graduate Teaching Assistants	906	1,041	1.4%	135	14.9%	14	16	30
25-1193	Recreation and Fitness Studies Teachers, Postsecondary	91	104	1.3%	13	14.3%	1	2	3
25-1194	Vocational Education Teachers, Postsecondary	206	279	3.1%	73	35.4%	7	4	11
25-1199	Postsecondary Teachers, All Other	338	389	1.4%	51	15.1%	5	6	11
25-2000	Primary, Secondary, and Special Education School Teachers	7,413	8,511	1.4%	1,098	14.8%	110	179	289
25-2011	Preschool Teachers, Except Special Education	1,221	1,444	1.7%	223	18.3%	22	25	47
25-2012	Kindergarten Teachers, Except Special Education	212	243	1.4%	31	14.6%	3	4	7
25-2021	Elementary School Teachers, Except Special Education	2,842	3,311	1.5%	469	16.5%	47	65	112
25-2022	Middle School Teachers, Except Special and Vocational Education	694	803	1.5%	109	15.7%	11	16	27
25-2031	Secondary School Teachers, Except Special and Vocational Education	1,823	1,983	0.8%	160	8.8%	16	53	69
25-2032	Vocational Education Teachers, Secondary School	54	59	0.9%	5	9.3%	1	2	3
25-2041	Special Education Teachers, Preschool, Kindergarten, and Elementary	227	279	2.1%	52	22.9%	5	6	11
25-2042	Special Education Teachers, Middle School	101	120	1.7%	19	18.8%	2	3	5

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Appendix 3: District of Columbia Occupational Detail* (continued)

SOC	Occupational Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018		Average Annual Openings		
		2008	2018		Numeric	Percent	Growth	Replacement	Total
25-2043	Special Education Teachers, Secondary School	239	269	1.2%	30	12.6%	3	6	9
25-3000	Other Teachers and Instructors	8,062	9,121	1.2%	1,059	13.1%	106	124	230
25-3011	Adult Literacy, Remedial Education, and GED Teachers and Instructors	274	317	1.5%	43	15.7%	4	4	8
25-3021	Self-Enrichment Education Teachers	1,228	1,657	3.0%	429	34.9%	43	19	62
25-3099	Teachers and Instructors, All Other	6,560	7,147	0.9%	587	8.9%	59	101	160
25-4000	Librarians, Curators, and Archivists	3,419	3,789	1.0%	370	10.8%	37	109	146
25-4011	Archivists	145	148	0.2%	3	2.1%	0	4	4
25-4012	Curators	211	245	1.5%	34	16.1%	3	6	9
25-4013	Museum Technicians and Conservators	647	768	1.7%	121	18.7%	12	19	31
25-4021	Librarians	1,562	1,675	0.7%	113	7.2%	11	41	52
25-4031	Library Technicians	854	953	1.1%	99	11.6%	10	38	48
25-9000	Other Education, Training, and Library Occupations	6,563	7,445	1.3%	882	13.4%	88	141	229
25-9011	Audio-Visual Collections Specialists	104	116	1.1%	12	11.5%	1	2	3
25-9031	Instructional Coordinators	2,200	2,599	1.7%	399	18.1%	40	49	89
25-9041	Teacher Assistants	3,718	4,121	1.0%	403	10.8%	40	79	119
25-9099	Education, Training, and Library Workers, All Other	541	609	1.2%	68	12.6%	7	12	19
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations	40,107	43,800	0.9%	3,693	9.2%	380	991	1,371
27-1000	Art and Design Workers	8,310	8,661	0.4%	351	4.2%	36	217	253
27-1011	Art Directors	743	783	0.5%	40	5.4%	4	17	21
27-1012	Craft Artists	**	**	***	***	***	***	***	**
27-1013	Fine Artists, Including Painters, Sculptors, and Illustrators	**	**	***	***	***	***	***	**
27-1014	Multi-Media Artists and Animators	240	248	0.3%	8	3.3%	1	5	6
27-1019	Artists and Related Workers, All Other	3,497	3,573	0.2%	76	2.2%	8	78	86
27-1021	Commercial and Industrial Designers	19	21	1.0%	2	10.5%	0	1	1
27-1023	Floral Designers	80	75	-0.6%	-5	-6.3%	0	3	3
27-1024	Graphic Designers	2,240	2,367	0.6%	127	5.7%	13	69	82
27-1025	Interior Designers	954	1,023	0.7%	69	7.2%	7	29	36
27-1026	Merchandise Displayers and Window Trimmers	161	165	0.2%	4	2.5%	0	5	5
27-1027	Set and Exhibit Designers	288	315	0.9%	27	9.4%	3	9	12
27-1029	Designers, All Other	19	17	-1.1%	-2	-10.5%	0	1	1
27-2000	Entertainers and Performers, Sports and Related Workers	4,097	4,380	0.7%	283	6.9%	28	107	135

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Appendix 3: District of Columbia Occupational Detail* (continued)

SOC	Occupational Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018		Average Annual Openings		
		2008	2018		Numeric	Percent	Growth	Replacement	Total
27-2011	Actors	732	783	0.7%	51	7.0%	5	18	23
27-2012	Producers and Directors	1,712	1,768	0.3%	56	3.3%	6	53	59
27-2021	Athletes and Sports Competitors	92	100	0.8%	8	8.7%	1	2	3
27-2022	Coaches and Scouts	676	814	1.9%	138	20.4%	14	13	27
27-2031	Dancers	96	95	-0.1%	-1	-1.0%	0	4	4
27-2041	Music Directors and Composers	110	115	0.4%	5	4.5%	1	2	3
27-2042	Musicians and Singers	551	569	0.3%	18	3.3%	2	11	13
27-3000	Media and Communication Workers	24,616	27,548	1.1%	2,932	11.9%	302	585	887
27-3011	Radio and Television Announcers	189	175	-0.8%	-14	-7.4%	0	5	5
27-3012	Public Address System and Other Announcers	39	38	-0.3%	-1	-2.6%	0	1	1
27-3021	Broadcast News Analysts	206	212	0.3%	6	2.9%	1	6	7
27-3022	Reporters and Correspondents	2,456	2,384	-0.3%	-72	-2.9%	0	68	68
27-3031	Public Relations Specialists	10,970	13,028	1.7%	2,058	18.8%	206	260	466
27-3041	Editors	4,295	4,571	0.6%	276	6.4%	28	113	141
27-3042	Technical Writers	763	899	1.7%	136	17.8%	14	12	26
27-3043	Writers and Authors	5,258	5,741	0.9%	483	9.2%	48	110	158
27-3091	Interpreters and Translators	261	311	1.8%	50	19.2%	5	6	11
27-3099	Media and Communication Workers, All Other	179	189	0.5%	10	5.6%	1	4	5
27-4000	Media and Communication Equipment Workers	3,084	3,211	0.4%	127	4.1%	13	83	96
27-4011	Audio and Video Equipment Technicians	507	551	0.8%	44	8.7%	4	15	19
27-4012	Broadcast Technicians	810	806	0.0%	-4	-0.5%	0	25	25
27-4013	Radio Operators	79	86	0.9%	7	8.9%	1	2	3
27-4014	Sound Engineering Technicians	131	141	0.7%	10	7.6%	1	4	5
27-4021	Photographers	419	440	0.5%	21	5.0%	2	8	10
27-4031	Camera Operators, Television, Video, and Motion Picture	434	456	0.5%	22	5.1%	2	11	13
27-4032	Film and Video Editors	129	126	-0.2%	-3	-2.3%	0	3	3
27-4099	Media and Communication Equipment Workers, All Other	575	605	0.5%	30	5.2%	3	14	17
29-0000	Healthcare Practitioners and Technical Occupations	26,098	29,457	1.2%	3,359	12.9%	342	541	883
29-1000	Health Diagnosing and Treating Practitioners	16,242	18,469	1.3%	2,227	13.7%	224	303	527
29-1011	Chiropractors	**	**	***	***	***	***	***	**
29-1021	Dentists, General	340	386	1.3%	46	13.5%	5	9	14

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Appendix 3: District of Columbia Occupational Detail* (continued)

SOC	Occupational Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018		Average Annual Openings		
		2008	2018		Numeric	Percent	Growth	Replacement	Total
29-1029	Dentists, All Other Specialists	49	53	0.8%	4	8.2%	0	1	1
29-1031	Dietitians and Nutritionists	492	556	1.2%	64	13.0%	6	16	22
29-1041	Optometrists	95	88	-0.8%	-7	-7.4%	0	3	3
29-1051	Pharmacists	633	691	0.9%	58	9.2%	6	14	20
29-1061	Anesthesiologists	30	30	0.0%	0	0.0%	0	1	1
29-1062	Family and General Practitioners	488	627	2.5%	139	28.5%	14	9	23
29-1063	Internists, General	57	66	1.5%	9	15.8%	1	1	2
29-1064	Obstetricians and Gynecologists	128	153	1.8%	25	19.5%	3	2	5
29-1066	Psychiatrists	236	255	0.8%	19	8.1%	2	4	6
29-1067	Surgeons	336	438	2.7%	102	30.4%	10	6	16
29-1069	Physicians and Surgeons, All Other	1,565	1,669	0.6%	104	6.6%	10	28	38
29-1071	Physician Assistants	557	652	1.6%	95	17.1%	10	10	20
29-1081	Podiatrists	19	24	2.4%	5	26.3%	1	0	1
29-1111	Registered Nurses	8,891	10,205	1.4%	1,314	14.8%	131	155	286
29-1121	Audiologists	59	75	2.4%	16	27.1%	2	1	3
29-1122	Occupational Therapists	200	220	1.0%	20	10.0%	2	4	6
29-1123	Physical Therapists	315	361	1.4%	46	14.6%	5	4	9
29-1124	Radiation Therapists	164	191	1.5%	27	16.5%	3	3	6
29-1125	Recreational Therapists	98	105	0.7%	7	7.1%	1	4	5
29-1126	Respiratory Therapists	323	365	1.2%	42	13.0%	4	6	10
29-1127	Speech-Language Pathologists	398	433	0.8%	35	8.8%	4	7	11
29-1129	Therapists, All Other	160	174	0.8%	14	8.8%	1	3	4
29-1131	Veterinarians	55	70	2.4%	15	27.3%	2	1	3
29-1199	Health Diagnosing and Treating Practitioners, All Other	548	577	0.5%	29	5.3%	3	10	13
29-2000	Health Technologists and Technicians	8,502	9,538	1.2%	1,036	12.2%	109	193	302
29-2011	Medical and Clinical Laboratory Technologists	753	745	-0.1%	-8	-1.1%	0	14	14
29-2012	Medical and Clinical Laboratory Technicians	506	519	0.3%	13	2.6%	1	10	11
29-2021	Dental Hygienists	439	599	3.2%	160	36.4%	16	9	25
29-2031	Cardiovascular Technologists and Technicians	126	151	1.8%	25	19.8%	3	2	5
29-2032	Diagnostic Medical Sonographers	70	84	1.8%	14	20.0%	1	1	2
29-2033	Nuclear Medicine Technologists	66	72	0.9%	6	9.1%	1	1	2

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Appendix 3: District of Columbia Occupational Detail* (continued)

SOC	Occupational Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018		Average Annual Openings		
		2008	2018		Numeric	Percent	Growth	Replacement	Total
29-2034	Radiologic Technologists and Technicians	664	735	1.0%	71	10.7%	7	10	17
29-2041	Emergency Medical Technicians and Paramedics	1,239	1,404	1.3%	165	13.3%	17	25	42
29-2051	Dietetic Technicians	13	14	0.7%	1	7.7%	0	0	0
29-2052	Pharmacy Technicians	688	817	1.7%	129	18.8%	13	17	30
29-2053	Psychiatric Technicians	433	433	0.0%	0	0.0%	0	11	11
29-2054	Respiratory Therapy Technicians	47	44	-0.7%	-3	-6.4%	0	1	1
29-2055	Surgical Technologists	570	701	2.1%	131	23.0%	13	14	27
29-2056	Veterinary Technologists and Technicians	39	52	2.9%	13	33.3%	1	1	2
29-2061	Licensed Practical and Licensed Vocational Nurses	1,684	1,886	1.1%	202	12.0%	20	53	73
29-2071	Medical Records and Health Information Technicians	482	541	1.2%	59	12.2%	6	10	16
29-2081	Opticians, Dispensing	261	219	-1.7%	-42	-16.1%	0	5	5
29-2091	Orthotists and Prosthetists	20	22	1.0%	2	10.0%	0	0	0
29-2099	Health Technologists and Technicians, All Other	402	500	2.2%	98	24.4%	10	8	18
29-9000	Other Healthcare Practitioners and Technical Occupations	1,354	1,450	0.7%	96	7.1%	10	45	55
29-9011	Occupational Health and Safety Specialists	440	469	0.6%	29	6.6%	3	15	18
29-9012	Occupational Health and Safety Technicians	70	76	0.8%	6	8.6%	1	2	3
29-9091	Athletic Trainers	36	45	2.3%	9	25.0%	1	1	2
29-9099	Healthcare Practitioners and Technical Workers, All Other	808	860	0.6%	52	6.4%	5	27	32
31-0000	Healthcare Support Occupations	9,256	11,797	2.5%	2,541	27.5%	255	101	356
31-1000	Nursing, Psychiatric, and Home Health Aides	6,091	7,960	2.7%	1,869	30.7%	187	61	248
31-1011	Home Health Aides	2,706	4,179	4.4%	1,473	54.4%	147	27	174
31-1012	Nursing Aides, Orderlies, and Attendants	3,022	3,421	1.2%	399	13.2%	40	30	70
31-1013	Psychiatric Aides	363	360	-0.1%	-3	-0.8%	0	4	4
31-2000	Occupational and Physical Therapist Assistants and Aides	181	215	1.7%	34	18.8%	3	3	6
31-2011	Occupational Therapist Assistants	20	21	0.5%	1	5.0%	0	0	0
31-2012	Occupational Therapist Aides	12	13	0.8%	1	8.3%	0	0	0
31-2021	Physical Therapist Assistants	68	82	1.9%	14	20.6%	1	1	2
31-2022	Physical Therapist Aides	81	99	2.0%	18	22.2%	2	1	3
31-9000	Other Healthcare Support Occupations	2,984	3,622	2.0%	638	21.4%	65	37	102
31-9011	Massage Therapists	179	183	0.2%	4	2.2%	0	2	2
31-9091	Dental Assistants	485	638	2.8%	153	31.5%	15	9	24

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Appendix 3: District of Columbia Occupational Detail* (continued)

SOC	Occupational Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018		Average Annual Openings		
		2008	2018		Numeric	Percent	Growth	Replacement	Total
31-9092	Medical Assistants	1,275	1,657	2.7%	382	30.0%	38	14	52
31-9093	Medical Equipment Preparers	52	54	0.4%	2	3.8%	0	1	1
31-9094	Medical Transcriptionists	92	94	0.2%	2	2.2%	0	1	1
31-9095	Pharmacy Aides	84	76	-1.0%	-8	-9.5%	0	1	1
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	94	120	2.5%	26	27.7%	3	1	4
31-9099	Healthcare Support Workers, All Other	723	800	1.0%	77	10.7%	8	8	16
33-0000	Protective Service Occupations	29,269	34,136	1.6%	4,867	16.6%	487	687	1,174
33-1000	First-Line Supervisors/Managers, Protective Service Workers	1,853	2,003	0.8%	150	8.1%	15	77	92
33-1011	First-Line Supervisors/Managers of Correctional Officers	70	76	0.8%	6	8.6%	1	3	4
33-1012	First-Line Supervisors/Managers of Police and Detectives	1,067	1,142	0.7%	75	7.0%	8	47	55
33-1021	First-Line Supervisors/Managers of Fire Fighting and Prevention Workers	141	152	0.8%	11	7.8%	1	7	8
33-1099	First-Line Supervisors/Managers, Protective Service Workers, All Others	575	633	1.0%	58	10.1%	6	21	27
33-2000	Fire Fighting and Prevention Workers	638	699	0.9%	61	9.6%	6	20	26
33-2011	Fire Fighters	592	649	0.9%	57	9.6%	6	18	24
33-2021	Fire Inspectors and Investigators	46	50	0.8%	4	8.7%	0	1	1
33-3000	Law Enforcement Workers	10,624	12,368	1.5%	1,744	16.4%	175	248	423
33-3012	Correctional Officers and Jailers	1,794	2,223	2.2%	429	23.9%	43	40	83
33-3021	Detectives and Criminal Investigators	3,579	4,514	2.3%	935	26.1%	94	73	167
33-3041	Parking Enforcement Workers	217	216	0.0%	-1	-0.5%	0	5	5
33-3051	Police and Sheriff's Patrol Officers	5,034	5,415	0.7%	381	7.6%	38	130	168
33-9000	Other Protective Service Workers	16,154	19,066	1.7%	2,912	18.0%	291	342	633
33-9011	Animal Control Workers	55	60	0.9%	5	9.1%	1	2	3
33-9021	Private Detectives and Investigators	375	475	2.4%	100	26.7%	10	8	18
33-9032	Security Guards	15,428	18,212	1.7%	2,784	18.0%	278	317	595
33-9091	Crossing Guards	114	122	0.7%	8	7.0%	1	3	4
33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service	19	22	1.5%	3	15.8%	0	1	1
33-9099	Protective Service Workers, All Other	163	175	0.7%	12	7.4%	1	11	12
35-0000	Food Preparation and Serving Related Occupations	41,866	45,363	0.8%	3,497	8.4%	352	1,495	1,847
35-1000	Supervisors, Food Preparation and Serving Workers	4,412	4,576	0.4%	164	3.7%	19	42	61
35-1011	Chefs and Head Cooks	1,671	1,647	-0.1%	-24	-1.4%	0	16	16
35-1012	First-Line Supervisors/Managers of Food Preparation and Serving Workers	2,741	2,929	0.7%	188	6.9%	19	26	45

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Appendix 3: District of Columbia Occupational Detail* (continued)

SOC	Occupational Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018		Average Annual Openings		
		2008	2018		Numeric	Percent	Growth	Replacement	Total
35-2000	Cooks and Food Preparation Workers	9,939	10,672	0.7%	733	7.4%	73	289	362
35-2011	Cooks, Fast Food	739	801	0.8%	62	8.4%	6	19	25
35-2012	Cooks, Institution and Cafeteria	1,311	1,466	1.1%	155	11.8%	16	34	50
35-2013	Cooks, Private Household	15	15	0.0%	0	0.0%	0	0	0
35-2014	Cooks, Restaurant	3,771	4,069	0.8%	298	7.9%	30	97	127
35-2015	Cooks, Short Order	645	647	0.0%	2	0.3%	0	17	17
35-2019	Cooks, All Other	37	45	2.0%	8	21.6%	1	1	2
35-2021	Food Preparation Workers	3,421	3,629	0.6%	208	6.1%	21	123	144
35-3000	Food and Beverage Serving Workers	20,359	22,337	0.9%	1,978	9.7%	198	825	1,023
35-3011	Bartenders	2,348	2,505	0.6%	157	6.7%	16	84	100
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	6,813	7,828	1.4%	1,015	14.9%	102	145	247
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	1,687	1,839	0.9%	152	9.0%	15	124	139
35-3031	Waiters and Waitresses	8,144	8,727	0.7%	583	7.2%	58	450	508
35-3041	Food Servers, Nonrestaurant	1,367	1,438	0.5%	71	5.2%	7	23	30
35-9000	Other Food Preparation and Serving Related Workers	7,156	7,778	0.8%	622	8.7%	62	339	401
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	3,041	3,220	0.6%	179	5.9%	18	132	150
35-9021	Dishwashers	2,730	3,074	1.2%	344	12.6%	34	112	146
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	1,293	1,386	0.7%	93	7.2%	9	90	99
35-9099	Food Preparation and Serving Related Workers, All Other	92	98	0.6%	6	6.5%	1	5	6
37-0000	Building and Grounds Cleaning and Maintenance Occupations	31,551	34,841	1.0%	3,290	10.4%	329	553	882
37-1000	Supervisors, Building and Grounds Cleaning and Maintenance Workers	3,386	3,726	1.0%	340	10.0%	34	35	69
37-1011	First-Line Supervisors/Managers of Housekeeping and Janitorial Workers	3,226	3,554	1.0%	328	10.2%	33	34	67
37-1012	First-Line Supervisors/Managers of Landscaping, Lawn Service, and Grounds Keeping Workers	160	172	0.7%	12	7.5%	1	2	3
37-2000	Building Cleaning and Pest Control Workers	27,060	29,872	1.0%	2,812	10.4%	281	505	786
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	19,162	21,330	1.1%	2,168	11.3%	217	362	579
37-2012	Maids and Housekeeping Cleaners	7,834	8,469	0.8%	635	8.1%	64	141	205
37-2019	Building Cleaning Workers, All Other	**	**	***	***	***	***	***	**
37-2021	Pest Control Workers	**	**	***	***	***	***	***	**
37-3000	Grounds Maintenance Workers	1,105	1,243	1.2%	138	12.5%	14	13	27
37-3011	Landscaping and Groundskeeping Workers	1,048	1,179	1.2%	131	12.5%	13	13	26
37-3012	Pesticide Handlers, Sprayers, and Applicators, Vegetation	**	**	***	***	***	***	***	**

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Appendix 3: District of Columbia Occupational Detail* (continued)

SOC	Occupational Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018		Average Annual Openings		
		2008	2018		Numeric	Percent	Growth	Replacement	Total
37-3013	Tree Trimmers and Pruners	**	**	***	***	***	***	***	**
37-3019	Grounds Maintenance Workers, All Other	**	**	***	***	***	***	***	**
39-0000	Personal Care and Service Occupations	14,009	15,739	1.2%	1,730	12.3%	174	358	532
39-1000	Supervisors, Personal Care and Service Workers	825	903	0.9%	78	9.5%	8	23	31
39-1011	Gaming Supervisors	**	**	***	***	***	***	***	**
39-1012	Slot Key Persons	**	**	***	***	***	***	***	**
39-1021	First-Line Supervisors/Managers of Personal Service Workers	825	903	0.9%	78	9.5%	8	23	31
39-2000	Animal Care and Service Workers	304	341	1.2%	37	12.2%	4	7	11
39-2011	Animal Trainers	**	**	***	***	***	***	***	**
39-2021	Nonfarm Animal Caretakers	296	331	1.1%	35	11.8%	4	6	10
39-3000	Entertainment Attendants and Related Workers	948	1,057	1.1%	109	11.5%	11	55	66
39-3021	Motion Picture Projectionists	25	21	-1.7%	-4	-16.0%	0	1	1
39-3031	Ushers, Lobby Attendants, and Ticket Takers	500	567	1.3%	67	13.4%	7	32	39
39-3091	Amusement and Recreation Attendants	269	295	0.9%	26	9.7%	3	14	17
39-3092	Costume Attendants	110	124	1.2%	14	12.7%	1	6	7
39-3093	Locker Room, Coatroom, and Dressing Room Attendants	32	37	1.5%	5	15.6%	1	2	3
39-3099	Entertainment Attendants and Related Workers, All Other	**	**	***	***	***	***	***	**
39-4000	Funeral Service Workers	**	**	***	***	***	***	***	**
39-4021	Funeral Attendants	**	**	***	***	***	***	***	**
39-5000	Personal Appearance Workers	2,285	2,561	1.1%	276	12.1%	28	33	61
39-5011	Barbers	514	534	0.4%	20	3.9%	2	8	10
39-5012	Hairdressers, Hairstylists, and Cosmetologists	1,442	1,653	1.4%	211	14.6%	21	21	42
39-5092	Manicurists and Pedicurists	78	86	1.0%	8	10.3%	1	1	2
39-5093	Shampooers	150	160	0.6%	10	6.7%	1	2	3
39-5094	Skin Care Specialists	89	116	2.7%	27	30.3%	3	1	4
39-6000	Transportation, Tourism, and Lodging Attendants	2,180	2,388	0.9%	208	9.5%	21	65	86
39-6011	Baggage Porters and Bellhops	594	630	0.6%	36	6.1%	4	15	19
39-6012	Concierges	1,050	1,179	1.2%	129	12.3%	13	27	40
39-6021	Tour Guides and Escorts	435	467	0.7%	32	7.4%	3	18	21
39-6031	Flight Attendants	**	**	***	***	***	***	***	**
39-6032	Transportation Attendants, Except Flight Attendants and Baggage Porters	**	**	***	***	***	***	***	**

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Appendix 3: District of Columbia Occupational Detail* (continued)

SOC	Occupational Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018		Average Annual Openings		
		2008	2018		Numeric	Percent	Growth	Replacement	Total
39-9000	Other Personal Care and Service Workers	7,455	8,475	1.3%	1,020	13.7%	102	175	277
39-9011	Child Care Workers	3,057	3,294	0.7%	237	7.8%	24	90	114
39-9021	Personal and Home Care Aides	1,225	1,551	2.4%	326	26.6%	33	15	48
39-9031	Fitness Trainers and Aerobics Instructors	1,253	1,561	2.2%	308	24.6%	31	23	54
39-9032	Recreation Workers	970	1,071	1.0%	101	10.4%	10	18	28
39-9041	Residential Advisors	711	734	0.3%	23	3.2%	2	25	27
39-9099	Personal Care and Service Workers, All Other	239	264	1.0%	25	10.5%	3	5	8
41-0000	Sales and Related Occupations	30,592	32,151	0.5%	1,559	5.1%	170	850	1,020
41-1000	Supervisors, Sales Workers	4,053	4,112	0.1%	59	1.5%	6	86	92
41-1011	First-Line Supervisors/Managers of Retail Sales Workers	3,044	3,077	0.1%	33	1.1%	3	65	68
41-1012	First-Line Supervisors/Managers of Non-Retail Sales Workers	1,009	1,035	0.3%	26	2.6%	3	21	24
41-2000	Retail Sales Workers	13,825	14,345	0.4%	520	3.8%	52	492	544
41-2011	Cashiers	6,295	6,364	0.1%	69	1.1%	7	283	290
41-2021	Counter and Rental Clerks	850	852	0.0%	2	0.2%	0	23	23
41-2022	Parts Salespersons	52	50	-0.4%	-2	-3.8%	0	2	2
41-2031	Retail Salespersons	6,628	7,079	0.7%	451	6.8%	45	185	230
41-3000	Sales Representatives, Services	4,978	5,466	0.9%	488	9.8%	49	111	160
41-3011	Advertising Sales Agents	789	856	0.8%	67	8.5%	7	16	23
41-3021	Insurance Sales Agents	1,184	1,326	1.1%	142	12.0%	14	28	42
41-3031	Securities, Commodities, and Financial Services Sales Agents	1,118	1,180	0.5%	62	5.5%	6	34	40
41-3041	Travel Agents	783	904	1.4%	121	15.5%	12	6	18
41-3099	Sales Representatives, Services, All Other	1,104	1,200	0.8%	96	8.7%	10	27	37
41-4000	Sales Representatives, Wholesale and Manufacturing	2,464	2,771	1.2%	307	12.5%	31	57	88
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	1,014	1,207	1.8%	193	19.0%	19	24	43
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	1,450	1,564	0.8%	114	7.9%	11	34	45
41-9000	Other Sales and Related Workers	5,272	5,457	0.3%	185	3.5%	32	104	136
41-9011	Demonstrators and Product Promoters	270	264	-0.2%	-6	-2.2%	0	8	8
41-9021	Real Estate Brokers	821	847	0.3%	26	3.2%	3	13	16
41-9022	Real Estate Sales Agents	2,121	2,302	0.8%	181	8.5%	18	35	53
41-9031	Sales Engineers	20	19	-0.5%	-1	-5.0%	0	1	1
41-9041	Telemarketers	707	578	-2.0%	-129	-18.2%	0	18	18

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Appendix 3: District of Columbia Occupational Detail* (continued)

SOC	Occupational Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018		Average Annual Openings		
		2008	2018		Numeric	Percent	Growth	Replacement	Total
41-9099	Sales and Related Workers, All Other	1,333	1,447	0.8%	114	8.6%	11	30	41
43-0000	Office and Administrative Support Occupations	113,975	122,291	0.7%	8,316	7.3%	1,100	2,231	3,331
43-1000	Supervisors, Office and Administrative Support Workers	5,158	5,772	1.1%	614	11.9%	61	116	177
43-1011	First-Line Supervisors/Managers of Office and Administrative Support	5,158	5,772	1.1%	614	11.9%	61	116	177
43-2000	Communications Equipment Operators	1,026	914	-1.1%	-112	-10.9%	0	21	21
43-2011	Switchboard Operators, Including Answering Service	937	832	-1.2%	-105	-11.2%	0	19	19
43-2021	Telephone Operators	**	**	***	***	***	0	0	**
43-2099	Communications Equipment Operators, All Other	68	59	-1.4%	-9	-13.2%	0	2	2
43-3000	Financial Clerks	10,748	11,883	1.0%	1,135	10.6%	122	204	326
43-3011	Bill and Account Collectors	747	897	1.8%	150	20.1%	15	14	29
43-3021	Billing and Posting Clerks and Machine Operators	1,947	2,283	1.6%	336	17.3%	34	32	66
43-3031	Bookkeeping, Accounting, and Auditing Clerks	5,361	5,998	1.1%	637	11.9%	64	64	128
43-3051	Payroll and Timekeeping Clerks	755	674	-1.1%	-81	-10.7%	0	18	18
43-3061	Procurement Clerks	376	403	0.7%	27	7.2%	3	12	15
43-3071	Tellers	1,562	1,628	0.4%	66	4.2%	7	64	71
43-4000	Information and Record Clerks	32,066	33,605	0.5%	1,539	4.8%	309	929	1,238
43-4011	Brokerage Clerks	146	142	-0.3%	-4	-2.7%	0	4	4
43-4021	Correspondence Clerks	131	128	-0.2%	-3	-2.3%	0	4	4
43-4031	Court, Municipal, and License Clerks	49	54	1.0%	5	10.2%	1	1	2
43-4041	Credit Authorizers, Checkers, and Clerks	37	36	-0.3%	-1	-2.7%	0	1	1
43-4051	Customer Service Representatives	7,613	9,163	1.9%	1,550	20.4%	155	240	395
43-4061	Eligibility Interviewers, Government Programs	529	582	1.0%	53	10.0%	5	12	17
43-4071	File Clerks	785	627	-2.2%	-158	-20.1%	0	19	19
43-4081	Hotel, Motel, and Resort Desk Clerks	795	912	1.4%	117	14.7%	12	27	39
43-4111	Interviewers, Except Eligibility and Loan	518	535	0.3%	17	3.3%	2	12	14
43-4121	Library Assistants, Clerical	1,371	1,571	1.4%	200	14.6%	20	57	77
43-4131	Loan Interviewers and Clerks	898	869	-0.3%	-29	-3.2%	0	22	22
43-4141	New Accounts Clerks	93	93	0.0%	0	0.0%	0	3	3
43-4151	Order Clerks	341	220	-4.3%	-121	-35.5%	0	10	10
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	1,637	1,572	-0.4%	-65	-4.0%	0	46	46
43-4171	Receptionists and Information Clerks	8,330	9,434	1.3%	1,104	13.3%	110	225	335

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Appendix 3: District of Columbia Occupational Detail* (continued)

SOC	Occupational Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018		Average Annual Openings		
		2008	2018		Numeric	Percent	Growth	Replacement	Total
43-4181	Reservation and Transportation Ticket Agents and Travel Clerks	573	619	0.8%	46	8.0%	5	13	18
43-4199	Information and Record Clerks, All Other	8,220	7,048	-1.5%	-1,172	-14.3%	0	233	233
43-5000	Material Recording, Scheduling, Dispatching, and Distributing Workers	5,513	5,389	-0.2%	-124	-2.2%	18	123	141
43-5011	Cargo and Freight Agents	19	19	0.0%	0	0.0%	0	0	0
43-5021	Couriers and Messengers	317	299	-0.6%	-18	-5.7%	0	7	7
43-5031	Police, Fire, and Ambulance Dispatchers	88	94	0.7%	6	6.8%	1	2	3
43-5032	Dispatchers, Except Police, Fire, and Ambulance	264	263	0.0%	-1	-0.4%	0	5	5
43-5051	Postal Service Clerks	210	186	-1.2%	-24	-11.4%	0	5	5
43-5052	Postal Service Mail Carriers	1,003	1,070	0.6%	67	6.7%	7	31	38
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	957	718	-2.8%	-239	-25.0%	0	9	9
43-5061	Production, Planning, and Expediting Clerks	473	506	0.7%	33	7.0%	3	12	15
43-5071	Shipping, Receiving, and Traffic Clerks	957	934	-0.2%	-23	-2.4%	0	24	24
43-5081	Stock Clerks and Order Fillers	1,220	1,295	0.6%	75	6.1%	8	28	36
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	**	**	***	***	***	***	***	**
43-6000	Secretaries and Administrative Assistants	35,637	39,515	1.0%	3,878	10.9%	388	480	868
43-6011	Executive Secretaries and Administrative Assistants	15,766	17,677	1.2%	1,911	12.1%	191	212	403
43-6012	Legal Secretaries	7,545	9,141	1.9%	1,596	21.2%	160	102	262
43-6013	Medical Secretaries	962	1,137	1.7%	175	18.2%	18	13	31
43-6014	Secretaries, Except Legal, Medical, and Executive	11,364	11,560	0.2%	196	1.7%	20	153	173
43-9000	Other Office and Administrative Support Workers	23,827	25,213	0.6%	1,386	5.8%	201	358	559
43-9011	Computer Operators	460	527	1.4%	67	14.6%	7	5	12
43-9021	Data Entry Keyers	1,328	1,262	-0.5%	-66	-5.0%	0	28	28
43-9022	Word Processors and Typists	2,609	2,521	-0.3%	-88	-3.4%	0	20	20
43-9031	Desktop Publishers	128	117	-0.9%	-11	-8.6%	0	2	2
43-9041	Insurance Claims and Policy Processing Clerks	298	313	0.5%	15	5.0%	2	4	6
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	1,446	1,273	-1.3%	-173	-12.0%	0	26	26
43-9061	Office Clerks, General	14,194	16,107	1.3%	1,913	13.5%	191	193	384
43-9071	Office Machine Operators, Except Computer	613	577	-0.6%	-36	-5.9%	0	20	20
43-9081	Proofreaders and Copy Markers	520	530	0.2%	10	1.9%	1	9	10
43-9111	Statistical Assistants	194	202	0.4%	8	4.1%	1	3	4
43-9199	Office and Administrative Support Workers, All Other	2,037	1,784	-1.3%	-253	-12.4%	0	47	47

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Appendix 3: District of Columbia Occupational Detail* (continued)

SOC	Occupational Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018		Average Annual Openings		
		2008	2018		Numeric	Percent	Growth	Replacement	Total
45-0000	Farming, Fishing, and Forestry Occupations	**	**	***	***	***	***	***	**
45-1000	Supervisors, Farming, Fishing, and Forestry Workers	**	**	***	***	***	***	***	**
45-1011	First-Line Supervisors/Managers of Farming, Fishing, and Forestry Workers	**	**	***	***	***	***	***	**
45-2000	Agricultural Workers	**	**	***	***	***	***	***	**
45-2011	Agricultural Inspectors	**	**	***	***	***	***	***	**
45-2091	Agricultural Equipment Operators	**	**	***	***	***	***	***	**
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	**	**	***	***	***	***	***	**
45-2093	Farmworkers, Farm and Ranch Animals	**	**	***	***	***	***	***	**
45-2099	Agricultural Workers, All Other	**	**	***	***	***	***	***	**
47-0000	Construction and Extraction Occupations	13,087	13,749	0.5%	662	5.1%	86	215	301
47-1000	Supervisors, Construction and Extraction Workers	1,064	1,145	0.7%	81	7.6%	8	21	-29
47-1011	First-Line Supervisors/Managers of Construction Trades and Extraction	1,064	1,145	0.7%	81	7.6%	8	21	29
47-2000	Construction Trades Workers	10,920	11,447	0.5%	527	4.8%	71	170	241
47-2011	Boilermakers	**	**	***	***	***	***	***	**
47-2021	Brickmasons and Blockmasons	198	214	0.8%	16	8.1%	2	5	7
47-2022	Stonemasons	35	38	0.8%	3	8.6%	0	1	1
47-2031	Carpenters	1,674	1,720	0.3%	46	2.7%	5	21	26
47-2042	Floor Layers, Except Carpet, Wood, and Hard Tiles	**	**	***	***	***	***	***	**
47-2043	Floor Sanders and Finishers	**	**	***	***	***	***	***	**
47-2044	Tile and Marble Setters	57	58	0.2%	1	1.8%	0	2	2
47-2051	Cement Masons and Concrete Finishers	620	699	1.2%	79	12.7%	8	16	24
47-2061	Construction Laborers	3,043	3,467	1.3%	424	13.9%	42	20	62
47-2071	Paving, Surfacing, and Tamping Equipment Operators	23	24	0.4%	1	4.3%	0	0	0
47-2073	Operating Engineers and Other Construction Equipment Operators	197	207	0.5%	10	5.1%	1	3	4
47-2081	Drywall and Ceiling Tile Installers	231	232	0.0%	1	0.4%	0	3	3
47-2082	Tapers	28	28	0.0%	0	0.0%	0	0	0
47-2111	Electricians	1,466	1,396	-0.5%	-70	-4.8%	0	35	35
47-2121	Glaziers	**	**	***	***	***	***	***	**
47-2132	Insulation Workers, Mechanical	**	**	***	***	***	***	***	**
47-2141	Painters, Construction and Maintenance	750	775	0.3%	25	3.3%	3	13	16
47-2151	Pipelayers	48	56	1.6%	8	16.7%	1	1	2

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Appendix 3: District of Columbia Occupational Detail* (continued)

SOC	Occupational Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018		Average Annual Openings		
		2008	2018		Numeric	Percent	Growth	Replacement	Total
47-2152	Plumbers, Pipefitters, and Steamfitters	1,229	1,161	-0.6%	-68	-5.5%	0	25	25
47-2161	Plasterers and Stucco Masons	155	163	0.5%	8	5.2%	1	3	4
47-2171	Reinforcing Iron and Rebar Workers	614	697	1.3%	83	13.5%	8	10	18
47-2181	Roofers	19	19	0.0%	0	0.0%	0	0	0
47-2211	Sheet Metal Workers	359	321	-1.1%	-38	-10.6%	0	9	9
47-2221	Structural Iron and Steel Workers	84	81	-0.4%	-3	-3.6%	0	1	1
47-3000	Helpers, Construction Trades	597	636	0.6%	39	6.5%	4	12	16
47-3011	Helpers—Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	140	157	1.2%	17	12.1%	2	3	5
47-3012	Helpers—Carpenters	146	171	1.6%	25	17.1%	3	3	6
47-3013	Helpers—Electricians	159	157	-0.1%	-2	-1.3%	0	3	3
47-3014	Helpers—Painters, Paperhangers, Plasterers, and Stucco Masons	16	15	-0.6%	-1	-6.3%	0	0	0
47-3015	Helpers—Pipelayers, Plumbers, Pipefitters, and Steamfitters	44	43	-0.2%	-1	-2.3%	0	1	1
47-3019	Helpers, Construction Trades, All Other	88	90	0.2%	2	2.3%	0	2	2
47-4000	Other Construction and Related Workers	506	521	0.3%	15	3.0%	3	12	15
47-4011	Construction and Building Inspectors	289	315	0.9%	26	9.0%	3	6	9
47-4021	Elevator Installers and Repairers	69	60	-1.4%	-9	-13.0%	0	2	2
47-4031	Fence Erectors	**	**	***	***	***	***	***	**
47-4041	Hazardous Materials Removal Workers	42	39	-0.7%	-3	-7.1%	0	1	1
47-4051	Highway Maintenance Workers	16	17	0.6%	1	6.3%	0	0	0
47-4061	Rail-Track Laying and Maintenance Equipment Operators	**	**	***	***	***	***	***	**
47-4099	Construction and Related Workers, All Other	84	84	0.0%	0	0.0%	0	3	3
49-0000	Installation, Maintenance, and Repair Occupations	9,530	10,273	0.8%	743	7.8%	92	178	270
49-1000	Supervisors of Installation, Maintenance, and Repair Workers	893	909	0.2%	16	1.8%	2	23	25
49-1011	First-Line Supervisors/Managers of Mechanics, Installers, and Repairers	893	909	0.2%	16	1.8%	2	23	25
49-2000	Electrical and Electronic Equipment Mechanics, Installers, and Repairers	1,194	1,338	1.1%	144	12.1%	16	21	37
49-2011	Computer, Automated Teller, and Office Machine Repairers	570	695	2.0%	125	21.9%	13	10	23
49-2021	Radio Mechanics	**	**	***	***	***	***	***	**
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	105	97	-0.8%	-8	-7.6%	0	2	2
49-2092	Electric Motor, Power Tool, and Related Repairers	28	25	-1.1%	-3	-10.7%	0	1	1
49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipments	**	**	***	***	***	***	***	**
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	162	174	0.7%	12	7.4%	1	3	4

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Appendix 3: District of Columbia Occupational Detail* (continued)

SOC	Occupational Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018		Average Annual Openings		
		2008	2018		Numeric	Percent	Growth	Replacement	Total
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	249	265	0.6%	16	6.4%	2	4	6
49-2096	Electronic Equipment Installers and Repairers, Motor Vehicles	**	**	***	***	***	***	***	**
49-2097	Electronic Home Entertainment Equipment Installers and Repairers	28	25	-1.1%	-3	-10.7%	0	1	1
49-2098	Security and Fire Alarm Systems Installers	35	40	1.3%	5	14.3%	1	1	2
49-3000	Vehicle and Mobile Equipment Mechanics, Installers	755	729	-0.3%	-26	-3.4%	2	16	18
49-3011	Aircraft Mechanics and Service Technicians	**	**	***	***	***	***	***	**
49-3021	Automotive Body and Related Repairers	90	71	-2.3%	-19	-21.1%	0	2	2
49-3023	Automotive Service Technicians and Mechanics	460	433	-0.6%	-27	-5.9%	0	9	9
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	77	83	0.8%	6	7.8%	1	2	3
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	27	28	0.4%	1	3.7%	0	1	1
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	**	**	***	***	***	***	***	**
49-3091	Bicycle Repairers	57	69	1.9%	12	21.1%	1	1	2
49-3093	Tire Repairers and Changers	**	**	***	***	***	***	***	**
49-9000	Other Installation, Maintenance, and Repair Occupations	6,688	7,297	0.9%	609	9.1%	73	118	191
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	176	151	-1.5%	-25	-14.2%	0	3	3
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	409	431	0.5%	22	5.4%	2	7	9
49-9031	Home Appliance Repairers	**	**	***	***	***	***	***	**
49-9041	Industrial Machinery Mechanics	181	202	1.1%	21	11.6%	2	3	5
49-9042	Maintenance and Repair Workers, General	4,278	4,867	1.3%	589	13.8%	59	66	125
49-9043	Maintenance Workers, Machinery	113	117	0.3%	4	3.5%	0	2	2
49-9051	Electrical Power-Line Installers and Repairers	96	117	2.0%	21	21.9%	2	3	5
49-9052	Telecommunications Line Installers and Repairers	634	548	-1.4%	-86	-13.6%	0	10	10
49-9062	Medical Equipment Repairers	179	210	1.6%	31	17.3%	3	5	8
49-9069	Precision Instrument and Equipment Repairers, All Other	**	**	***	***	***	***	***	**
49-9094	Locksmiths and Safe Repairers	100	112	1.1%	12	12.0%	1	2	3
49-9096	Riggers	**	**	***	***	***	***	***	**
49-9098	Helpers--Installation, Maintenance, and Repair Workers	286	303	0.6%	17	5.9%	2	14	16
49-9099	Installation, Maintenance, and Repair Workers, All Other	125	132	0.5%	7	5.6%	1	2	3
51-0000	Production Occupations	7,650	7,388	-0.3%	-262	-3.4%	18	141	159
51-1000	Supervisors, Production Workers	551	506	-0.8%	-45	-8.2%	0	7	7
51-1011	First-Line Supervisors/Managers of Production and Operating Workers	551	506	-0.8%	-45	-8.2%	0	7	7

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Appendix 3: District of Columbia Occupational Detail* (continued)

SOC	Occupational Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018		Average Annual Openings		
		2008	2018		Numeric	Percent	Growth	Replacement	Total
51-2000	Assemblers and Fabricators	104	112	0.7%	8	7.7%	1	2	3
51-2023	Electromechanical Equipment Assemblers	**	**	***	***	***	***	***	**
51-2041	Structural Metal Fabricators and Fitters	67	74	1.0%	7	10.4%	1	1	2
51-2092	Team Assemblers	36	37	0.3%	1	2.8%	0	1	1
51-3000	Food Processing Workers	767	767	0.0%	0	0.0%	3	21	24
51-3011	Bakers	408	381	-0.7%	-27	-6.6%	0	11	11
51-3021	Butchers and Meat Cutters	202	202	0.0%	0	0.0%	0	7	7
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	13	14	0.7%	1	7.7%	0	0	0
51-4000	Metal Workers and Plastic Workers	512	493	-0.4%	-19	-3.7%	0	12	12
51-4041	Machinists	159	156	-0.2%	-3	-1.9%	0	2	2
51-4061	Model Makers, Metal and Plastic	17	18	0.6%	1	5.9%	0	0	0
51-4121	Welders, Cutters, Solderers, and Brazers	319	304	-0.5%	-15	-4.7%	0	10	10
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	**	**	***	***	***	***	***	**
51-4193	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	**	**	***	***	***	***	***	**
51-4199	Metal Workers and Plastic Workers, All Other	**	**	***	***	***	***	***	**
51-5000	Printing Workers	2,440	2,291	-0.6%	-149	-6.1%	0	34	34
51-5011	Bindery Workers	302	292	-0.3%	-10	-3.3%	0	4	4
51-5012	Bookbinders	62	66	0.6%	4	6.5%	0	1	1
51-5021	Job Printers	639	573	-1.1%	-66	-10.3%	0	2	2
51-5022	Prepress Technicians and Workers	505	435	-1.5%	-70	-13.9%	0	6	6
51-5023	Printing Machine Operators	932	925	-0.1%	-7	-0.8%	0	20	20
51-6000	Textile, Apparel, and Furnishings Workers	868	812	-0.7%	-56	-6.5%	0	13	13
51-6011	Laundry and Dry-Cleaning Workers	642	612	-0.5%	-30	-4.7%	0	11	11
51-6021	Pressers, Textile, Garment, and Related Materials	141	127	-1.0%	-14	-9.9%	0	1	1
51-6031	Sewing Machine Operators	**	**	***	***	***	***	***	**
51-6041	Shoe and Leather Workers and Repairers	**	**	***	***	***	***	***	**
51-6051	Sewers, Hand	**	**	***	***	***	0	0	**
51-6052	Tailors, Dressmakers, and Custom Sewers	57	52	-0.9%	-5	-8.8%	0	1	1
51-6093	Upholsterers	**	**	***	***	***	***	***	**
51-7000	Woodworkers	234	222	-0.5%	-12	-5.1%	0	5	5
51-7011	Cabinetmakers and Bench Carpenters	99	88	-1.2%	-11	-11.1%	0	2	2
51-7021	Furniture Finishers	12	10	-1.8%	-2	-16.7%	0	0	0

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Appendix 3: District of Columbia Occupational Detail* (continued)

SOC	Occupational Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018		Average Annual Openings		
		2008	2018		Numeric	Percent	Growth	Replacement	Total
51-7099	Woodworkers, All Other	123	124	0.1%	1	0.8%	0	3	3
51-8000	Plant and System Operators	993	1,068	0.7%	75	7.6%	9	22	31
51-8013	Power Plant Operators	173	161	-0.7%	-12	-6.9%	0	6	6
51-8021	Stationary Engineers and Boiler Operators	408	442	0.8%	34	8.3%	3	7	10
51-8031	Water and Liquid Waste Treatment Plant and System Operators	260	302	1.5%	42	16.2%	4	6	10
51-8099	Plant and System Operators, All Other	152	163	0.7%	11	7.2%	1	4	5
51-9000	Other Production Occupations	1,181	1,117	-0.6%	-64	-5.4%	5	24	29
51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	20	20	0.0%	0	0.0%	0	0	0
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	111	115	0.4%	4	3.6%	0	2	2
51-9081	Dental Laboratory Technicians	88	97	1.0%	9	10.2%	1	2	3
51-9082	Medical Appliance Technicians	**	**	***	***	***	***	***	**
51-9083	Ophthalmic Laboratory Technicians	16	15	-0.6%	-1	-6.3%	0	0	0
51-9111	Packaging and Filling Machine Operators and Tenders	263	249	-0.5%	-14	-5.3%	0	4	4
51-9122	Painters, Transportation Equipment	**	**	***	***	***	***	***	**
51-9123	Painting, Coating, and Decorating Workers	48	51	0.6%	3	6.3%	0	1	1
51-9131	Photographic Process Workers	78	101	2.6%	23	29.5%	2	2	4
51-9132	Photographic Processing Machine Operators	243	173	-3.3%	-70	-28.8%	0	6	6
51-9193	Cooling and Freezing Equipment Operators and Tenders	**	**	***	***	***	***	***	**
51-9194	Etchers and Engravers	18	18	0.0%	0	0.0%	0	0	0
51-9198	Helpers—Production Workers	56	65	1.5%	9	16.1%	1	1	2
51-9199	Production Workers, All Other	200	175	-1.3%	-25	-12.5%	0	5	5
53-0000	Transportation and Material Moving Occupations	16,886	17,922	0.6%	1,036	6.1%	109	427	536
53-1000	Supervisors, Transportation and Material Moving Workers	521	524	0.1%	3	0.6%	1	9	10
53-1021	First-Line Supervisors/Managers of Helpers, Laborers, and Material Movers, Hand	146	154	0.5%	8	5.5%	1	3	4
53-1031	First-Line Supervisors/Managers of Transportation and Material-Moving Machine and Vehicle Operators	375	370	-0.1%	-5	-1.3%	0	7	7
53-2000	Air Transportation Workers	304	334	0.9%	30	9.9%	3	10	13
53-2011	Airline Pilots, Copilots, and Flight Engineers	**	**	***	***	***	***	***	**
53-2012	Commercial Pilots	**	**	***	***	***	***	***	**
53-2021	Air Traffic Controllers	268	293	0.9%	25	9.3%	3	9	12
53-2022	Airfield Operations Specialists	15	16	0.6%	1	6.7%	0	1	1
53-3000	Motor Vehicle Operators	7,935	8,655	0.9%	720	9.1%	72	140	212
53-3011	Ambulance Drivers and Attendants, Except Emergency Medical Technicians	**	**	***	***	***	***	***	**

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Appendix 3: District of Columbia Occupational Detail* (continued)

SOC	Occupational Title	Employment		Average Annual Growth Rate	Change, 2008 – 2018		Average Annual Openings		
		2008	2018		Numeric	Percent	Growth	Replacement	Total
53-3021	Bus Drivers, Transit and Intercity	734	801	0.9%	67	9.1%	7	13	20
53-3022	Bus Drivers, School	1,105	1,310	1.7%	205	18.6%	21	19	40
53-3031	Driver/Sales Workers	342	340	-0.1%	-2	-0.6%	0	6	6
53-3032	Truck Drivers, Heavy and Tractor-Trailer	643	658	0.2%	15	2.3%	2	12	14
53-3033	Truck Drivers, Light or Delivery Services	1,957	2,013	0.3%	56	2.9%	6	35	41
53-3041	Taxi Drivers and Chauffeurs	1,752	2,027	1.5%	275	15.7%	28	31	59
53-3099	Motor Vehicle Operators, All Other	1,396	1,499	0.7%	103	7.4%	10	24	34
53-5000	Water Transportation Workers	193	209	0.8%	16	8.3%	2	8	10
53-5011	Sailors and Marine Oilers	64	68	0.6%	4	6.3%	0	3	3
53-5021	Captains, Mates, and Pilots of Water Vessels	47	50	0.6%	3	6.4%	0	2	2
53-5022	Motorboat Operators	58	65	1.1%	7	12.1%	1	2	3
53-5031	Ship Engineers	24	26	0.8%	2	8.3%	0	1	1
53-6000	Other Transportation Workers	3,894	4,085	0.5%	191	4.9%	19	137	156
53-6011	Bridge and Lock Tenders	**	**	***	***	***	***	***	**
53-6021	Parking Lot Attendants	2,300	2,343	0.2%	43	1.9%	4	83	87
53-6031	Service Station Attendants	95	104	0.9%	9	9.5%	1	4	5
53-6041	Traffic Technicians	**	**	***	***	***	***	***	**
53-6051	Transportation Inspectors	290	339	1.6%	49	16.9%	5	7	12
53-6099	Transportation Workers, All Other	1,202	1,292	0.7%	90	7.5%	9	43	52
53-7000	Material Moving Workers	4,039	4,115	0.2%	76	1.9%	12	122	134
53-7011	Conveyor Operators and Tenders	**	**	***	***	***	***	***	**
53-7021	Crane and Tower Operators	51	54	0.6%	3	5.9%	0	1	1
53-7032	Excavating and Loading Machine and Dragline Operators	84	90	0.7%	6	7.1%	1	2	3
53-7051	Industrial Truck and Tractor Operators	136	140	0.3%	4	2.9%	0	4	4
53-7061	Cleaners of Vehicles and Equipment	201	166	-1.9%	-35	-17.4%	0	7	7
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	2,301	2,294	0.0%	-7	-0.3%	0	74	74
53-7064	Packers and Packagers, Hand	316	318	0.1%	2	0.6%	0	5	5
53-7072	Pump Operators, Except Wellhead Pumpers	16	17	0.6%	1	6.3%	0	1	1
53-7081	Refuse and Recyclable Material Collectors	920	1,026	1.1%	106	11.5%	11	27	38
53-7199	Material Moving Workers, All Other	**	**	***	***	***	***	***	**

Note: *District of Columbia 2008-2018 Industry and Occupational Projections

**Not available or nondisclosable.

Source: D.C. Department of Employment Services, Office of Labor Market Research and Information



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