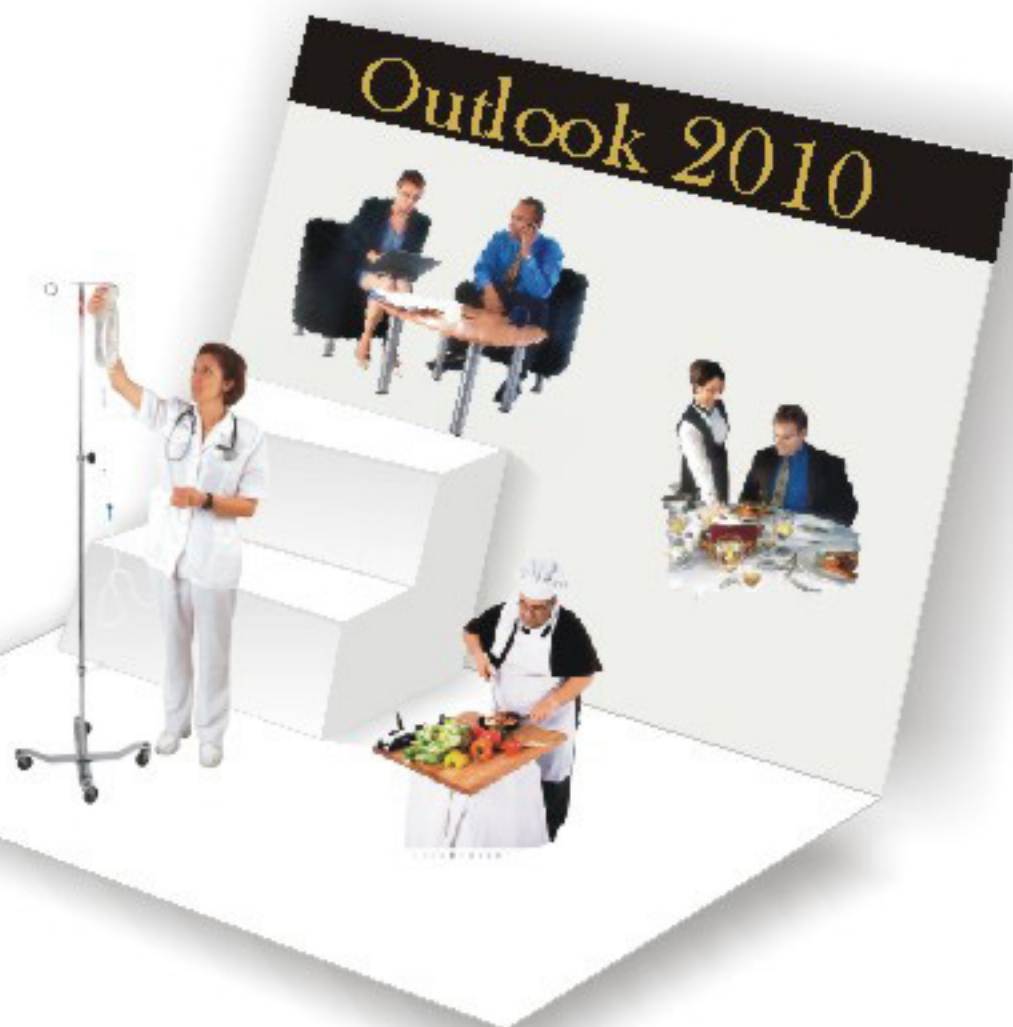


Workforce Oklahoma Employment Outlook 2010



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Introduction

The *Workforce Oklahoma Outlook 2010* has been designed to provide an overview of Oklahoma's industry- and occupation-related actual employment in 2000, projected employment in 2010, employment growth between 2000 and 2010, and annual percentage growth in employment during that period. This publication also gives an account of the annual percentage growth in U.S. total employment during the same period for comparison. In the first part of the book, the industry employment statistics and analyses have been presented by 10 major industry groups. In the second part, each industry group has been divided into sub-industry sectors, and the statistics on actual employment in 2000, projected employment in 2010, employment growth between 2000 and 2010, and annual percentage growth in employment during that period as well as projection analyses have been presented. In the third part of this report, analyses of Oklahoma's employment projection by occupation and an analysis of Oklahoma's Occupations with Largest Employment, Occupations with Largest Number of Openings, Fastest Growing Occupations, and Occupations in Decline have been furnished. The fourth part of this report lays out a listing and analyses of employment opportunities facing workers with varying job skills. In the fifth part, an account of Oklahoma's Top 20 industries to provide largest number of employment in 2000, Top 20 industries to provide largest number of employment in 2010, projected Top 20 industries in creating largest number of new jobs between 2000 and 2010, and projected Top 20 fastest growing (in employment) industries has been presented along with the actual employment numbers and employment growth rates. For comparison, the Top 20 fastest growing (in employment) industries in the U.S. have also been listed with the corresponding employment growth rates. Finally, this report provides the occupational profile table, explanations for occupational education and training categories, the alphabetical index for occupations, and technical notes.

Oklahoma's total employment in 1990 was 1,192,920, which increased to 1,489,700 in 2000. By 2010, the total employment in Oklahoma is expected to be 1,737,580. Between 1990 and 2000, total employment in Oklahoma increased by 296,780. However, during the period between 2000 and 2010, the total employment is expected to increase by only 247,880. During the 1990s, the total employment in Oklahoma grew by 2.49 percent, but is only expected to grow by 1.66 percent between 2000 and 2010. These growth rates are higher than the corresponding growth rates for the U.S. as a whole.

Workforce Oklahoma Outlook 2010 only reports the actual and projected employment figures for nonfarm industries and occupations. Therefore, employment figures for **Agricultural Services** are for services related to agriculture and not the agricultural industry itself.

The data on U.S. actual and projected employment is obtained from the U.S. Department of Labor's Monthly Labor Review, whereas data for Oklahoma is obtained from the Current Employment Statistics (CES) and Covered Employment and Wages (ES-202) programs. The data on employment and employment change has been rounded to the nearest 10. However, unrounded data has been used to calculate the Average Annual Percentage Changes. The Average Annual Percentage Changes in employment between 1990 and 2000 and between 2000 and 2010 have been calculated by subtracting the employment figure for the beginning year from that for the end year, dividing the result by the figure for the beginning year, and finally dividing the result by 10.

To economize on space and maintain a flow in reading, some of the industry groups have been abbreviated. For example, **T.C.U.** and **F.I.R.E.** stand for **Transportation, Communication, and Utilities** and **Finance, Insurance, and Real Estate**, respectively. In some of the pie charts, share of employment or share of new employment for some of the industries or occupations may show a "0%" entry. This simply means that the particular industry/occupation either has a negligible share of total employment or is actually shrinking in the projection period.

While interpreting the percentage numbers in the pie charts, the readers are advised to match the number at the position of 12 in a clock with the industry/occupation at the top of the adjoining list, the number next to it in a clockwise direction to the second industry/occupation from the top of the list and so on.

Special thanks go to the following economists who reviewed our key industry projection: Dr. Dan Rickman, Department of Economics and Legal Studies in Business, Oklahoma State University; Dr. Mark C. Snead, Business and Economic Research, Oklahoma State University; and Dr. Craig Walker, Paul Dickinson School of Business, Oklahoma Baptist University.

1. Oklahoma Employment Projection By Industry (2000 – 2010)

Total employment in Oklahoma is projected to increase by 247,880 jobs between 2000 and 2010. Of the total employment growth, the *Services* industry contributes a majority of the growth by adding 53 percent. The second and the third largest contributors to the employment growth are *Retail Trade* and *Government* with 16 percent and 9 percent of the growth, respectively. While other industries will experience a positive employment growth during this period, the *Mining* industry is projected to shrink by 3,600 jobs over the period, or 1.23 percent annually.

The total employment in Oklahoma is projected to increase from 1,489,700 in 2000 to 1,737,580 in 2010. A total of 247,880 new jobs will be created during this period. Of the total new jobs, the **Services** industry will add the highest number of jobs with 134,530. **Retail Trade** and **Government** (Federal, State, Local) will be the second and the third largest sectors to add new jobs with 40,750 and 22,850 new jobs, respectively. While all other industries will experience positive growth during this period, the **Mining** industry is projected to suffer a net loss of jobs. This industry will lose 3,600 existing jobs in this period. In aggregate, the national **Mining** industry will suffer a 1.10 percent annual employment loss. The Oklahoma **Mining** industry, however, will top that rate, losing 1.23 percent of its workforce annually. On the average, Oklahoma's projected employment growth, at 1.66 percent, will be higher than the national annual employment growth rate of 1.40 percent over the decade.

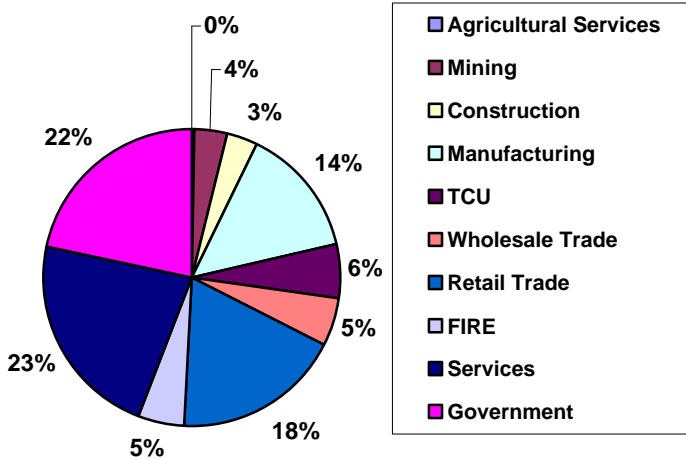
1.1 Employment Projection By Major Industry (2000 – 2010)

Industry	Oklahoma Employment							U. S. Employment*	
	Employment In			Employment Change		Average Annual Percentage Change		Average Annual Percentage Change	
	1990	2000	2010	1990-2000	2000-2010	1990-2000	2000-2010	1990-2000	2000-2010
Agricultural Services	4,340	7,640	9,390	3,300	1,740	7.60%	2.29%	2.90%	2.70%
Mining	43,300	29,200	25,600	-14,100	-3,600	-3.26%	-1.23%	-2.60%	-1.10%
Construction	39,610	60,250	68,430	20,640	8,180	5.21%	1.36%	2.70%	1.20%
Manufacturing	168,740	182,420	194,320	13,680	11,900	0.81%	0.65%	-0.30%	0.30%
T.C.U.	68,660	86,450	100,860	17,790	14,410	2.59%	1.67%	2.00%	1.70%
Wholesale Trade	61,420	68,330	74,590	6,910	6,260	1.13%	0.92%	1.30%	1.10%
Retail Trade	218,990	274,600	315,360	55,610	40,750	2.54%	1.48%	1.70%	1.30%
F.I.R.E.	60,250	73,350	84,200	13,100	10,860	2.17%	1.48%	1.20%	0.90%
Services	268,500	419,750	554,270	151,250	134,530	5.63%	3.20%	3.70%	2.90%
Government	259,110	287,710	310,560	28,600	22,850	1.10%	0.79%	1.20%	0.80%
Total Employment	1,192,920	1,489,700	1,737,580	296,780	247,880	2.49%	1.66%	1.60%	1.40%

* The data on U. S. employment is obtained from U. S. Department of Labor's Monthly Labor Review, November 2001.

The rankings of the industries in terms of employment shares did not see significant change during the 1990 to 2000 period and are not expected to be dramatically different between 2000 and 2010. The **Services** industry continues to be the dominant sector in terms of employment from 1990 through 2010. The rankings of **Government** and the **Retail Trade** industry have changed. During the 1990 to 2000 period, **Government** was the second largest industry, and **Retail Trade** held the position of third largest industry. However, this ranking is expected to change between 2000 and 2010. The **Retail Trade** industry is expected to move up to the second position, leaving **Government** as the third largest industry.

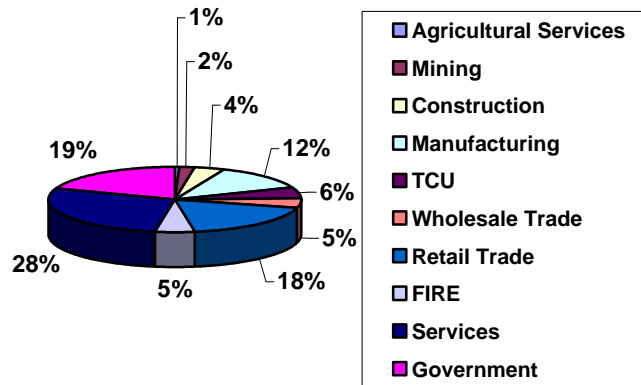
1.2 Employment Share By Industry (1990)



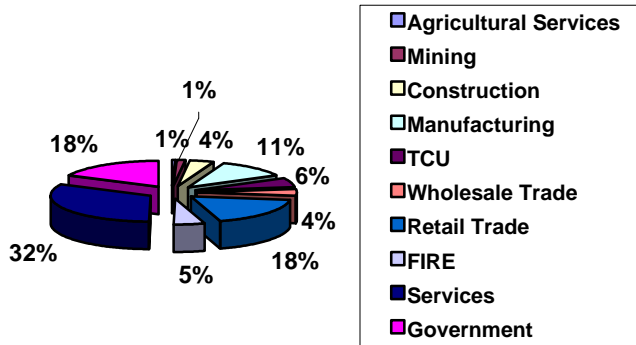
Between 1990 and 2000, the employment shares of **T.C.U.**, **Wholesale Trade**, **Retail Trade**, and **F.I.R.E.** stayed the same. However, the employment share of both **Manufacturing** and **Mining** fell by 2 percent. In this same period, **Services** increased its employment share by 5 percent. **Government** lost 3 percent of its employment share, and **Manufacturing** dropped 2 percent as did **Mining**. **Agricultural Services**, and **Construction** each increased its own employment share by 1 percent.

1.3 Employment Share By Industry (2000)

During the 2000-2010 period, the employment shares of **Agricultural Services**, **T.C.U.**, **Construction**, **F.I.R.E.**, and **Retail Trade** will stay the same, while **Mining**, **Manufacturing**, **Government**, and **Wholesale Trade** will each shrink by 1 percent. On the other hand, the **Services** industry will experience a net gain of 4 percent during the same period.



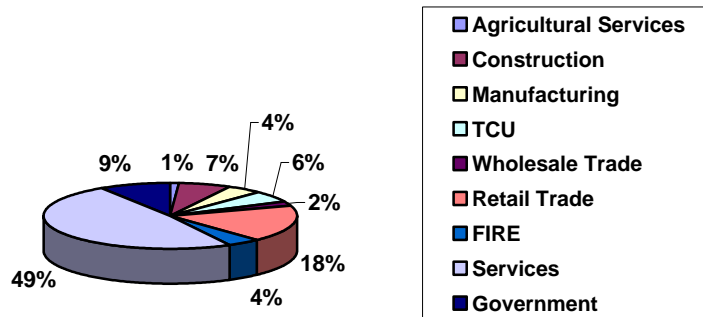
1.4 Employment Share By Industry (2010)



The ranking of these industries in terms of employment is not projected to change during this period. **Services**, **Retail Trade**, and **Government** accounted for 63 percent of the total employment in 1990 and 65 percent in 2000. By 2010, these industries are expected to provide 68 percent of total employment.

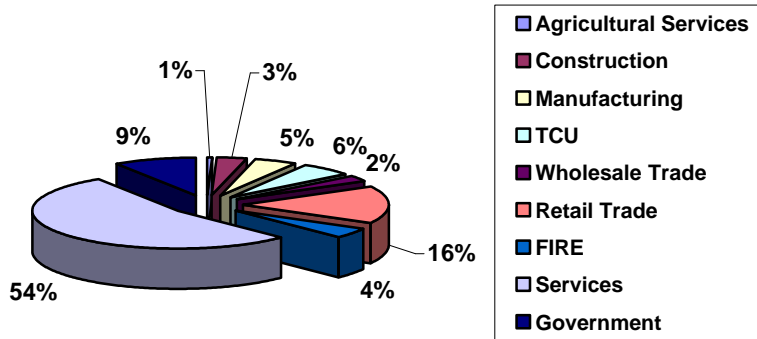
1.5 Share In Employment Growth By Industry (1990 - 2000)

Agriculture and **Mining** will continue to be the sectors with smallest shares in employment. Looking at the actual number of new jobs created between 1990 and 2000, it is evident that the **Services** industry benefited the most from the new jobs generated during this period. For every 10 new jobs created during this period, nearly five of them belonged to the **Services** industry. **Retail Trade** (18 percent) and **Government** (9 percent) were the second and third largest industries in terms of new job creation.



Looking at the projections for new jobs created between 2000 and 2010, it is obvious that the **Services** industry will overwhelmingly dominate all others. Out of every 10 new jobs created during this period, **Services** will generate more than five of these jobs, contributing 54 percent of all new jobs created.

1.6 Share In Employment Growth By Industry (2000 - 2010)



Retail Trade and **Government** will continue to be the second and third largest industries in terms of share in new job creation during this period, providing 16 percent and 9 percent of new jobs, respectively.

When combined together, **Services**, **Retail Trade**, and **Government** will account for 79 percent of all new jobs during the period.

Thus, these three industries will create almost eight out of every 10 new jobs. **T.C.U.**, **Manufacturing**, and **F.I.R.E.** are the fourth, fifth, and sixth industries in creating new jobs.

Agricultural Services will own the smallest shares in new job creation with 1 percent annual growth. During this period, the **Services** industry will experience the highest rate of annual employment growth at 3.2 percent.

Although **Agricultural Services** is projected to contribute the least number of new jobs, it will be the second fastest growing industry in terms of employment growth percentage with a 2.29 percent annual growth rate.

The third, fourth, fifth, and sixth fastest growing industries in terms of employment will be **T.C.U.**, **Retail Trade**, **F.I.R.E.**, and **Construction**. Each industry will average more than a 1 percent annual growth rate. Employment growth in **Wholesale Trade** and **Government** is projected to be less than 1 percent annually. The only industry with projected negative employment growth is the **Mining** industry.

Industries such as **Services**, **Retail Trade**, **F.I.R.E.**, **Construction**, and **Manufacturing** are projected to create new jobs at rates higher than the corresponding national employment growth rates. On the other hand, industries like **Agricultural Services**, **T.C.U.**, **Wholesale Trade**, and **Government** are projected to have rates lower than the corresponding national employment growth rates. **Mining**, the only industry with a negative projected employment growth rate, is expected to shrink in terms of employment at a rate faster than the national rate.

2. Oklahoma Employment Projection For Services Industry (2000 – 2010)

The *Services* industry will add 134,530 new jobs by the end of 2010, accounting for 53 percent of all new employments. Within this industry, the *Business Services* sector will be both the fastest growing sector with 5.13 percent annual employment growth rate and the largest sector for new employment, adding about four out of every 10 new jobs.

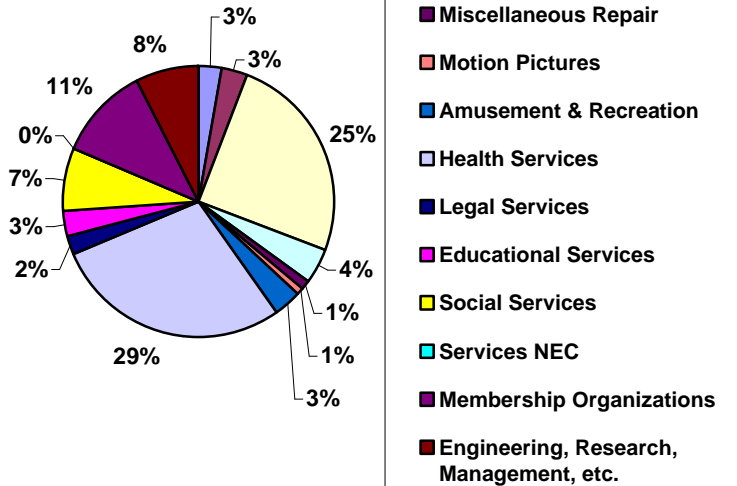
The **Services** industry is expected to generate 134,530 new jobs between 2000 and 2010. Not only will this industry be the biggest contributor to the employment level, it will also be the fastest growing industry, generating more than 53 percent of new jobs. While its share in total employment was only 23 percent in 1990 and 28 percent in 2000, **Services** is expected to contribute 32 percent of the total jobs by the end of 2010. Of the total new jobs created within this period, this industry will contribute more than five out of every 10.

2.1 Employment Projection for Services Industry (2000 – 2010)

Services	Employment in 2000	Employment in 2010	Employment Growth	Annual % Growth for Oklahoma
Hotels & Lodging	11,270	12,290	1,020	0.91%
Personal Services	13,440	14,530	1,090	0.81%
Business Services	104,380	157,880	53,500	5.13%
Automotive Repair & Parking	17,910	22,160	4,250	2.37%
Miscellaneous Repair	4,350	4,820	470	1.08%
Motion Pictures	3,650	4,330	680	1.86%
Amusement & Recreation	13,670	17,570	3,900	2.86%
Health Services	119,080	149,420	30,350	2.55%
Legal Services	9,620	11,880	2,260	2.36%
Educational Services	13,230	15,860	2,630	1.99%
Social Services	30,590	40,740	10,150	3.32%
Membership Organizations	45,790	55,430	9,640	2.11%
Engineering, Research, Management, etc.	31,990	46,350	14,360	4.49%
Services NEC	800	1,010	210	2.68%
Total	419,750	554,270	134,530	3.20%

Within this industry, the fastest growing sector will be **Business Services**. This sector alone is expected to generate 53,500 new jobs and will continue to be the fastest growing sector with an annual growth rate of 5.13 percent. More than two out of every 10 new jobs in total employment and four out of every 10 new jobs within the **Services** industry will be generated within this sector.

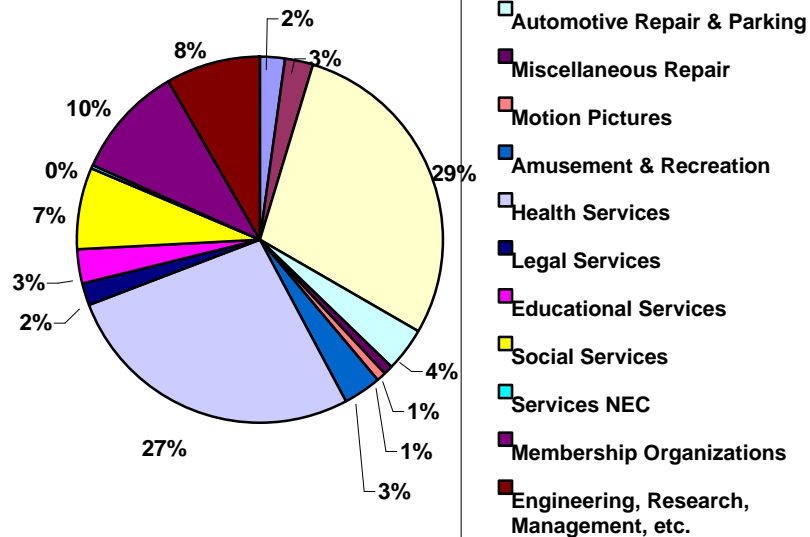
2.2 Employment Share Within Services Industry (2000)



The sectors adding the second, third, fourth, and fifth largest number of new jobs by 2010 will be, in order, **Health Services** (+30,350 jobs), **Engineering, Research, Management, etc.** (+14,360 jobs), **Social Services** (+10,150 jobs), and **Membership Organizations** (+9,640 jobs). Combined with **Business Services**, these four sectors will contribute 88 percent of new jobs created, meaning about nine out of 10 new jobs created within the **Services** industry.

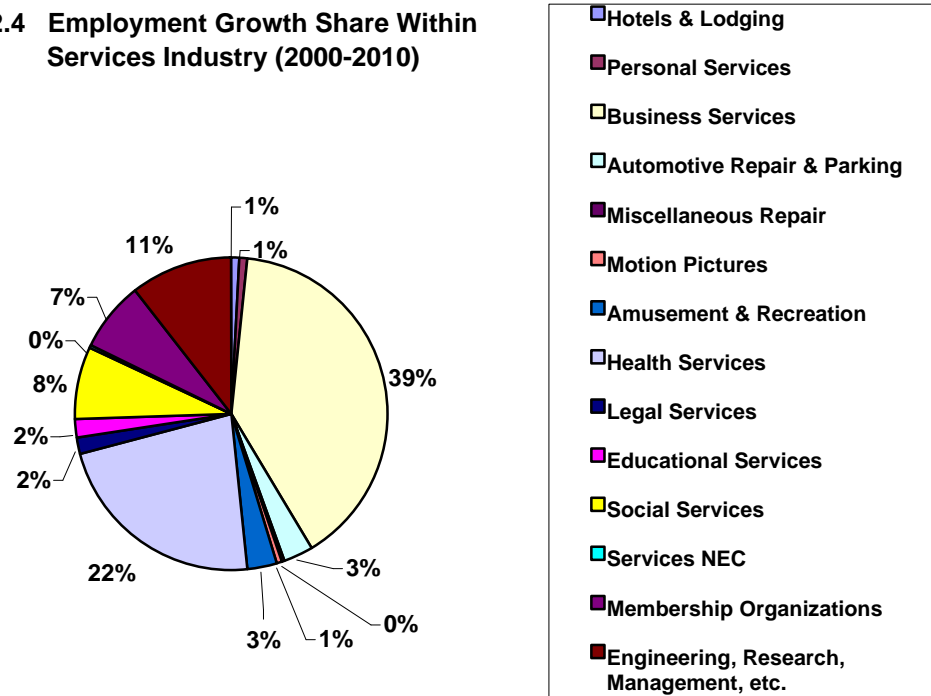
While **Business Services** will continue to be the largest employer and the fastest growing sector, employment in some other sectors is expected to grow fast as well. For example, the annual employment growth rate for **Engineering, Research & Management** is expected to be 4.49 percent. **Social Services** will grow at 3.32 percent annually. **Amusement & Recreation** and **Services NEC** are expected to grow at rates of 2.86 percent and 2.68 percent, respectively. **Health Services** is also expected to make a strong showing with an annual growth rate of 2.55 percent. The slowest growing sectors in the **Services** industries will be **Hotels & Lodging** and **Personal Services** with less than 1 percent annual employment growth rate each.

2.3 Employment Share Within Services Industry (2010)



Within the **Services** industry, the **Business Services** sector is projected to generate about four of every 10 new jobs between 2000 and 2010. **Business Services** and **Health Services** combined will account for 61 percent of new jobs in the **Services** industry, which translates to more than six out of every 10 new jobs. Similarly, **Business Services** and **Health Services** together with **Social Services** and **Engineering, Research & Management Services** are expected to account for a whopping 80 percent of new jobs during this period.

2.4 Employment Growth Share Within Services Industry (2000-2010)



Within the **Services** industry, sectors such as **Hotels & Lodging** and **Personal Services** are expected to experience less than 1 percent annual employment growth.

3. Oklahoma Employment Projection For Manufacturing Industry (2000 – 2010)

The *Manufacturing* industry will add 11,900 new jobs by the end of 2010, representing a 5 percent share of all new employments. Within this industry, *Rubber & Plastics* will be the fastest growing sector with a 2 percent annual employment growth rate, whereas *Fabricated Metal* will be the largest contributor of new employment, accounting for about three out of every 10 new jobs.

The **Manufacturing** industry is the fourth largest industry in providing employment and is expected to remain so through 2010. However, this industry is projected to show the least employment growth during this period with an annual employment growth rate of only 0.65 percent.

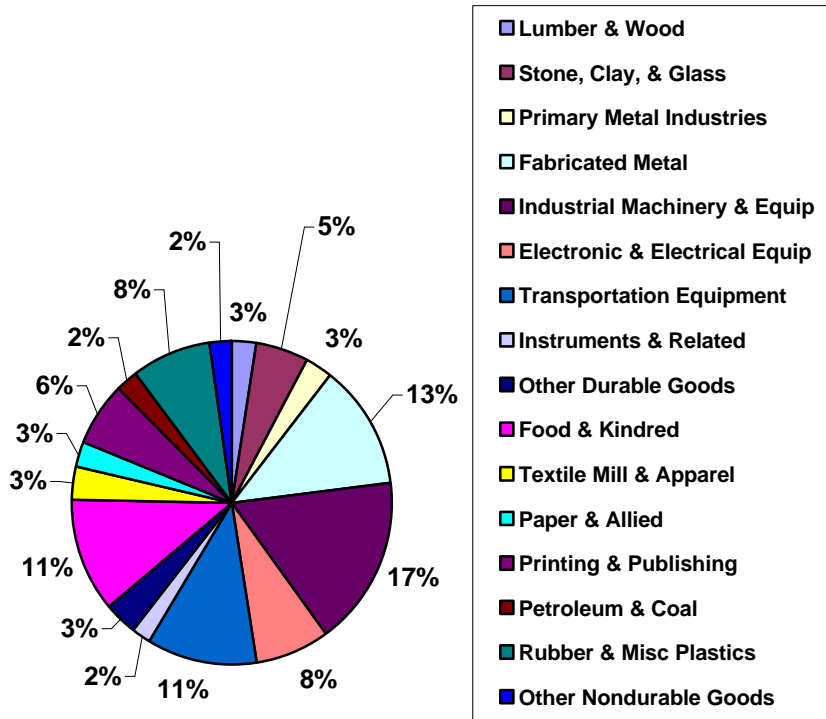
3.1 Employment Projection for Manufacturing Industry (2000 – 2010)

Manufacturing	Employment in 2000	Employment in 2010	Employment Growth	Annual % Growth for Oklahoma
DURABLE GOODS	116,530	122,980	6,450	0.55%
Lumber & Wood	4,580	5,370	790	1.73%
Stone, Clay, & Glass	9,460	9,340	-120	-0.13%
Primary Metal Industries	5,010	4,680	-330	-0.65%
Fabricated Metal	22,940	26,120	3,180	1.39%
Industrial Machinery & Equipment	30,820	32,320	1,510	0.49%
Electronic & Electrical Equipment	14,070	15,370	1,300	0.93%
Transportation Equipment	19,920	19,350	-570	-0.29%
Instruments & Related	3,850	3,940	90	0.22%
Other Durable Goods	5,890	6,490	600	1.02%
NONDURABLE GOODS	65,890	71,340	5,450	0.83%
Food & Kindred	20,950	22,980	2,030	0.97%
Textile Mill & Apparel	5,890	4,750	-1,140	-1.94%
Paper & Allied	4,630	5,520	900	1.94%
Printing & Publishing	11,470	12,110	640	0.56%
Petroleum & Coal	4,040	3,500	-550	-1.35%
Rubber & Misc. Plastics	14,690	17,630	2,940	2.00%
Other Non-durable Goods	4,220	4,850	630	1.49%
Total	182,420	194,320	11,900	0.65%

The **Manufacturing** industry provided 182,420 jobs in 2000 and is projected to be at 194,320 jobs by 2010, creating 11,900 new jobs during this period.

Within this industry cluster, the sector generating the largest number of new employments will be the **Fabricated Metal** sector. This sector is projected to provide 3,180 new jobs by 2010.

3.2 Employment Share Within Manufacturing Industry (2000)

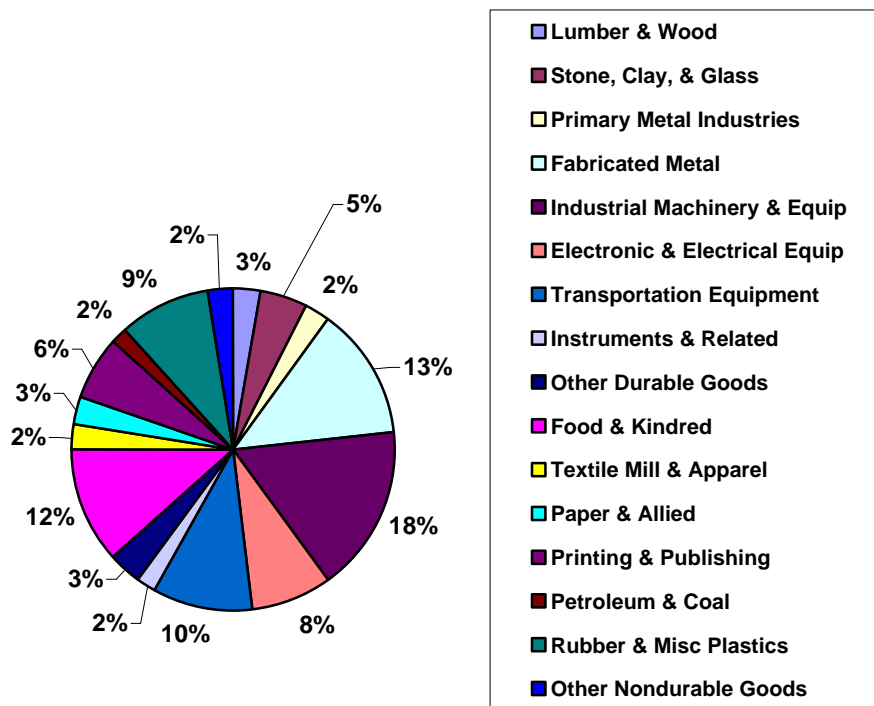


The sectors adding the second, third, fourth, and fifth largest number of new jobs by the end of 2010 will be **Rubber & Plastics** (+2,940 jobs), **Food & Kindred** (+2,030 jobs), **Industrial Machinery and Equipment** (+1,510 jobs), and **Electronic & Electrical Equipment** (+1,300 jobs). Cumulatively, these five sectors will contribute 92 percent of all new jobs in this industry, which means nine out of every 10 new jobs to be created within **Manufacturing**.

While other sectors are expected to expand in terms of employment during the 2000 to 2010 projection period, sectors such as **Stone, Clay & Glass** (-120 jobs), **Primary Metal** (-330 jobs), **Petroleum & Coal** (-550 jobs), **Transportation Equipment** (-570 jobs), and **Textile Mill & Apparel** (-1140 jobs) will shrink in employment.

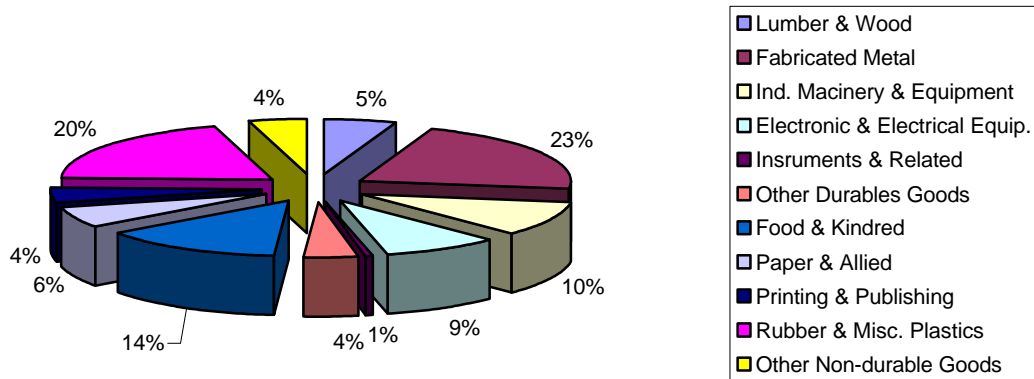
While **Fabricated Metal** is expected to generate the largest number of new jobs between 2000 and 2010, the **Rubber & Plastics** sector is projected to have the highest rate of employment growth at 2 percent. Other sectors expected to experience more than 1 percent annual employment growth are **Other Durable Goods** (+1.02 percent), **Other Nondurable Goods** (+1.49 percent), **Fabricated Metal** (+1.39 percent), **Lumber & Wood** (+1.73 percent), and **Paper & Allied** (+1.94 percent).

3.3 Employment Share Within Manufacturing Industry (2010)



The slowest growing sectors in **Manufacturing** will be **Industrial Machinery & Equipment**, **Electronic & Electrical Equipment**, **Instruments & Related**, **Food & Kindred**, and **Printing & Publishing**. None of these groups is expected to record an annual growth rate of better than 1 percent. While other sectors will expand, **Stone, Clay & Glass** (-0.13 percent), **Transportation Equipment** (-0.29 percent), **Primary Metal** (-0.65 percent), **Petroleum & Coal** (-1.35 percent), and **Textile Mill & Apparel** (-1.94 percent) will shrink annually during this period.

3.4 Employment Growth Share Within Manufacturing Industry (2000-2010)



Within **Manufacturing**, the **Fabricated Metal** and **Rubber & Misc. Plastics** sectors combined will account for more than four out of every 10 new jobs. The **Fabricated Metal** sector will contribute 23 percent of new jobs, and **Rubber & Plastics** will add 20 percent. Similarly, other sectors contributing significantly in new employment creation will be **Food & Kindred** (+14 percent), **Industrial Machinery & Equipment** (+10 percent), and **Electronics & Electrical Equipment** (+9 percent).

The sectors that are expected to lose jobs, in this projection period, are: **Stone, Clay, & Glass** (120 jobs); **Primary Metal Industries** (330 jobs); **Transportation Equipment** (570 jobs); **Textile Mill & Apparel** (1,140 jobs); and **Petroleum & Coal** (550 jobs). Out of 2,710 jobs lost within this industry, 42 percent of the total job loss will occur in **Textile Mill & Apparel** sector alone. Similarly, **Transportation Equipment** and **Petroleum & Coal** will be the second and the third sectors in losing jobs with 21% and 20% share respectively, in total job loss within this industry.

4. Oklahoma Employment Projection For Transportation, Communication, Utilities Industry (2000 – 2010)

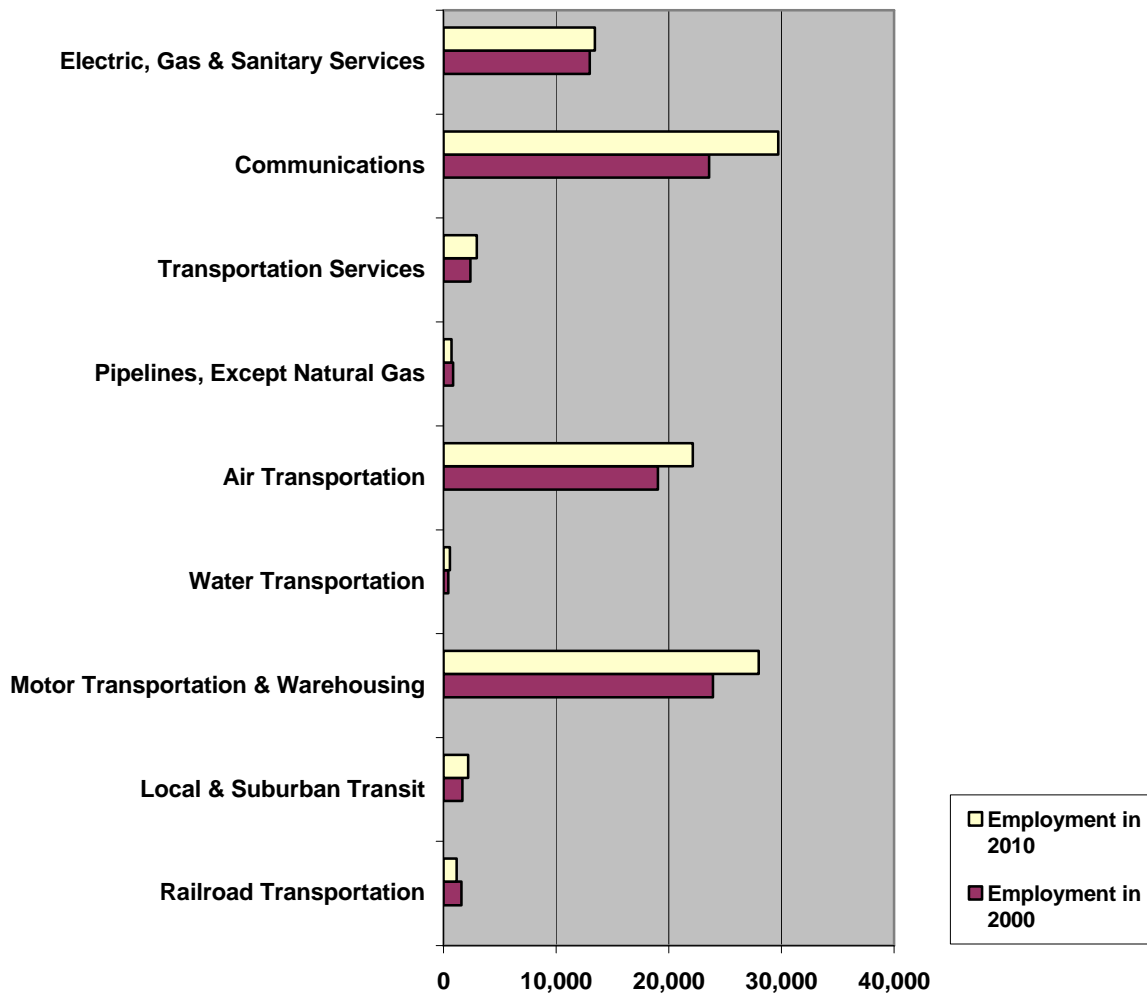
The *T.C.U.* industry will add 14,410 new jobs by the end of 2010 with a 5.8 percent share in new employment. Within this industry, the *Water Transportation* sector will be the fastest growing with a 3.67 percent annual employment growth rate. *Communications* will be the largest contributor of new employment by adding more than four out of every 10 new jobs.

The **Transportation, Communication, and Utility** industry is currently the fifth largest industry in providing employment and is expected to remain so through 2010. However, our projections predict that this industry will be the fourth largest in providing new employment. **Transportation** is also expected to be the third fastest growing industry in terms of employment with a projected annual employment growth rate of 1.67 percent.

4.1 Employment Projection for Transportation, Communication, and Utility Industry (2000 – 2010)

Transportation, Communication & Utilities	Employment in 2000	Employment in 2010	Employment Growth	Annual % Growth for Oklahoma
Railroad Transportation	1,590	1,170	-420	-2.64%
Local & Suburban Transit	1,660	2,190	530	3.17%
Motor Transportation & Warehousing	23,920	27,980	4,060	1.70%
Water Transportation	430	580	160	3.67%
Air Transportation	19,030	22,120	3,090	1.63%
Pipelines, Except Natural Gas	860	710	-160	-1.82%
Transportation Services	2,390	2,950	550	2.31%
Communications	23,580	29,730	6,150	2.61%
Electric, Gas & Sanitary	12,990	13,440	450	0.35%
Total	86,450	100,860	14,410	1.67%

Employment Projection For TCP Industry (2000 - 2010)

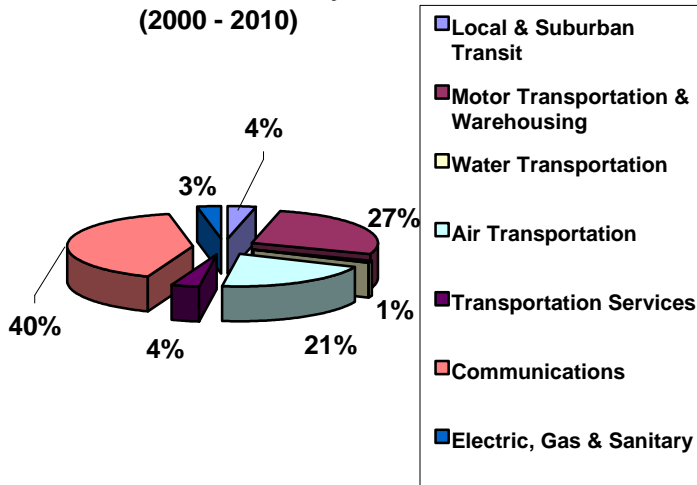


Within this industry cluster, the sector generating the largest number of new jobs will be **Communications**. This sector is projected to provide 6,150 new jobs by 2010. The sectors adding second, third, fourth, and fifth largest number of new jobs by the end of 2010 will be the **Motor Transportation & Warehousing** (+4,060 jobs), **Air Transportation** (+3,090 jobs), **Transportation Services** (+550 jobs), and **Local & Suburban Transit** (+530 jobs).

These five sectors combined will contribute 99.8 percent of all new jobs in the industry, which means over 99 out of every 100 new jobs created within **Transportation** come from these sectors.

Not all sectors will fare so well during this projection period. Sectors such as **Railroad Transportation** (-420 jobs), which leads all losing sectors in this industry, and **Pipelines, Except Natural Gas** (-160 jobs) are expected to shrink.

4.2 Employment Growth Share Within TCP Industry (2000 - 2010)



While **Communications** is expected to generate the largest number of new jobs during this projection period, **Water Transportation** is expected to have the highest rate of employment growth at 3.67 percent. Other sectors to experience more than a 1 percent annual employment growth rate are **Local & Suburban Transit** (+3.17 percent), **Motor Transportation & Warehousing** (+1.7 percent), **Air Transportation** (+1.63 percent), and **Transportation Services** (+2.31 percent). The slowest growing sector in **Transportation** will be **Electric, Gas & Sanitary** with less than a 1 percent annual employment growth rate.

While other sectors expand, **Railroad Transportation** (-2.64 percent) and **Pipelines, Except Natural Gas** (-1.82 percent) will shrink each year between 2000 and 2010.

Within the **Transportation** industry, the **Communications** sector will account for about four of every 10 new jobs. Following closely behind, **Motor Transportation & Warehousing** will contribute 27 percent of new jobs, while **Air Transportation** will be responsible for 21 percent of all job creation.

Other sectors contributing to new employment are **Transportation Services** (4 percent), **Local & Suburban Transit** (4 percent), and **Electric, Gas & Sanitary** (3 percent).

Out of 580 jobs lost within this industry, the **Railroad Transportation** alone will lose 72% leaving the rest 28% to be shared by the **Pipelines, Except Natural Gas** sector.

5. Oklahoma Employment Projection For Retail Trade Industry (2000 – 2010)

The *Retail Trade* industry will add 40,750 new jobs by the end of 2010 with a 16.44 percent share of all new jobs. Within this industry, the *Furnishing & Equipment* sector will be the fastest growing with a 2.22 percent annual employment growth rate, and *Eating & Drinking* will be the largest contributor of new employment by adding about four out of every 10 new jobs.

The **Retail Trade** industry is the third largest industry overall for providing employment and is expected to be the second largest industry by 2010. This industry is also expected to be the fourth fastest growing industry in terms of employment with a projected annual employment growth rate of 1.48 percent.

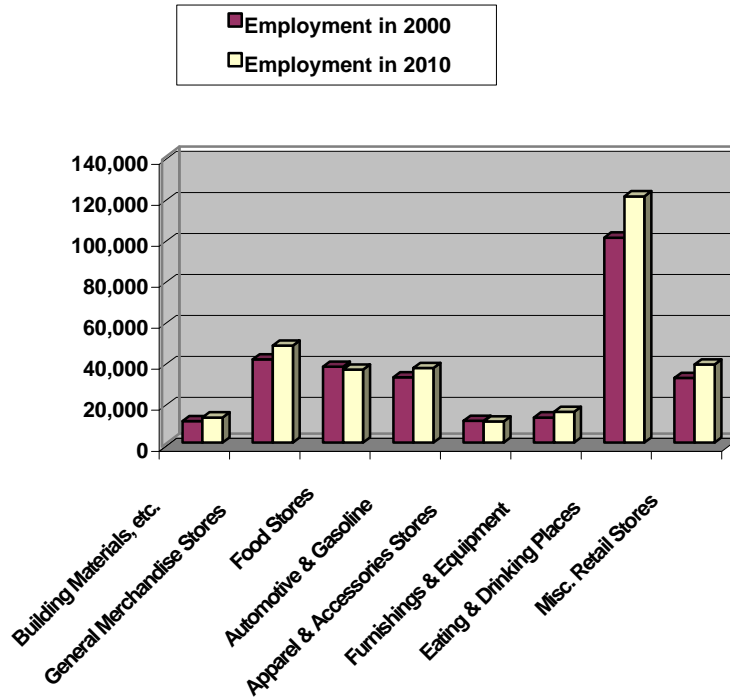
5.1 Employment Projection for Retail Trade Industry (2000 – 2010)

Retail Trade	Employment in 2000	Employment in 2010	Employment Growth	Annual % Growth for Oklahoma
Building Materials, etc.	10,520	12,310	1,790	1.70%
General Merchandise Stores	40,580	47,310	6,730	1.66%
Food Stores	37,020	35,620	-1,390	-0.38%
Automotive & Gasoline	31,920	36,430	4,510	1.41%
Apparel & Accessory	10,600	10,340	-260	-0.25%
Furnishings & Equipment	12,290	15,010	2,730	2.22%
Eating & Drinking	100,090	120,220	20,130	2.01%
Miscellaneous	31,590	38,110	6,520	2.06%
Total	274,600	315,360	40,750	1.48%

Within this industry cluster, the sector generating the largest number of new employments will be **Eating & Drinking**. Estimates project that this sector will add 20,130 new jobs by 2010.

The sectors adding the second, third, fourth, and fifth largest number of new jobs by 2010 will be, in order, **General Merchandise Stores** (+6,730 jobs), **Miscellaneous** (+6,520 jobs), **Automotive & Gasoline** (+4,510 jobs), and **Furnishings & Equipment** (+2,730 jobs). These five sectors will contribute 99.67 percent of all new jobs in the industry, meaning that nine out of every 10 new jobs created within **Retail Trade** come from one of these sectors.

Employment Projection For Retail Trade Industry (2000 - 2010)

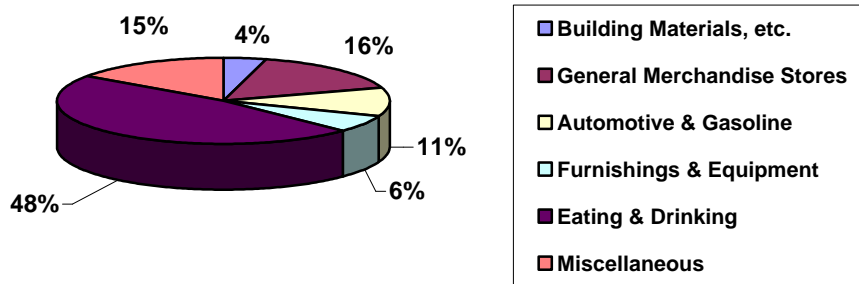


Between the years of 2000 and 2010, while other sectors experience expansion of employment, **Food Stores** (-1,390 jobs) and **Apparel & Accessory** (-260 jobs) are expected to shrink. **Food Stores** will lose the most jobs over this period.

While the **Eating & Drinking** sector is expected to generate the largest number of new jobs in this projection period, the **Furnishings & Equipment** sector is projected to have the highest rate of employment growth at 2.22 percent. Other sectors predicted to experience a more than 1 percent boost in annual employment growth rate are **Building Materials, etc.** (+1.7 percent), **General Merchandise Stores** (+1.66 percent), **Automotive & Gasoline** (+1.41 percent), **Eating & Drinking** (+2.01 percent), and **Miscellaneous** (+2.07 percent).

While all other sectors will expand, **Food Stores** and **Apparel & Accessory** will shrink annually by 0.38 percent and 0.25 percent, respectively, during this period.

5.2 Employment Growth Share Within Retail Trade Industry (2000 - 2010)



Within the **Retail Trade** industry, **Eating & Drinking** will account for about five of every 10 new jobs. **General Merchandise Stores** will contribute 16 percent of new jobs, while **Miscellaneous** will be responsible for 15 percent.

Other sectors contributing to new job creation are **Building Materials, etc.** (+4 percent), **Automotive & Gasoline** (+11 percent), and **Furnishing & Equipment** (+6 percent).

Out of 1,650 jobs lost within this industry, **Food Stores** alone will lose 84% leaving the rest 16% to be shared by the **Apparel and Accessory** sector.

6. Oklahoma Employment Projection For Wholesale Trade Industry (2000 – 2010)

The *Wholesale Trade* industry will add 6,260 new jobs by the end of 2010 and hold a 2.53 percent share of all new employment. Within this industry, *Durable Goods Trade* will be both the fastest growing sector with a 1.02 percent annual employment growth rate and the largest contributor of new employment by adding more than six out of every 10 new jobs.

Wholesale Trade is the seventh largest industry and is expected to hold steady through 2010. This industry is projected to be the eighth largest industry in generating new employment and the seventh fastest growing industry in terms of employment. This industry’s annual employment growth rate is projected to be 0.92 percent.

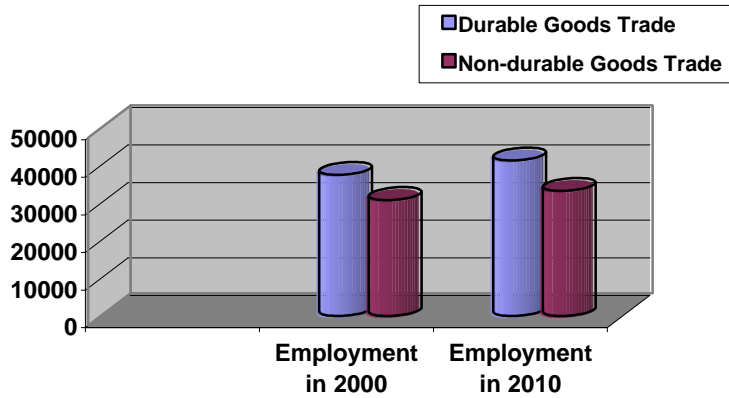
6.1 Employment Projection for Wholesale Trade Industry (2000 – 2010)

Wholesale Trade	Employment in 2000	Employment in 2010	Employment Growth	Annual % Growth for Oklahoma
Durable Goods Trade	37,500	41,310	3,810	1.02%
Non-durable Goods Trade	30,830	33,280	2,450	0.80%
Total	68,330	74,590	6,260	0.92%

Within this industry cluster, the sector generating the largest number of new jobs will be **Durable Goods**. This sector is projected to provide 3,810 new jobs by 2010. **Non-durable Goods**, the other sector in the industry, will add 2,450 new jobs during this period. Between 2000 and 2010, both of these sectors are expected to expand in terms of employment.

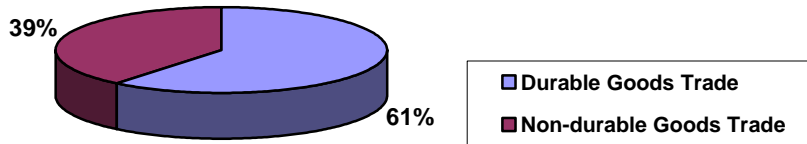
Durable Goods is expected to be the largest sector in generating new employment. This sector is also expected to be the sector with the highest rate of employment growth.

Employment Projection For Wholesale Trade Industry (2000 - 2010)



Within the **Wholesale Trade** industry, the **Durable Goods** sector will account for six of every 10 new jobs created. **Non-durable Goods** will account for the rest.

6.2 Employment Growth Share Within Wholesale Trade Industry (2000 - 2010)



7. Oklahoma Employment Projection For Finance, Insurance, and Real Estate Industry (2000 – 2010)

The *Finance, Insurance, and Real Estate (F.I.R.E.)* industry will add 10,860 new jobs by the end of 2010 with a 4.4 percent share in new jobs created. Within this industry, the *Insurance Carriers* sector will be both the fastest growing sector with a 1.88 percent annual employment growth rate and the sector generating the largest number of jobs within this industry by adding three out of every 10 new jobs.

Finance, Insurance, and Real Estate is the sixth largest industry and is expected to remain the same through 2010. This industry is projected to be the sixth largest industry in generating new employment and the fourth fastest growing industry in terms of employment. Its annual employment growth rate is expected to be 1.48 percent.

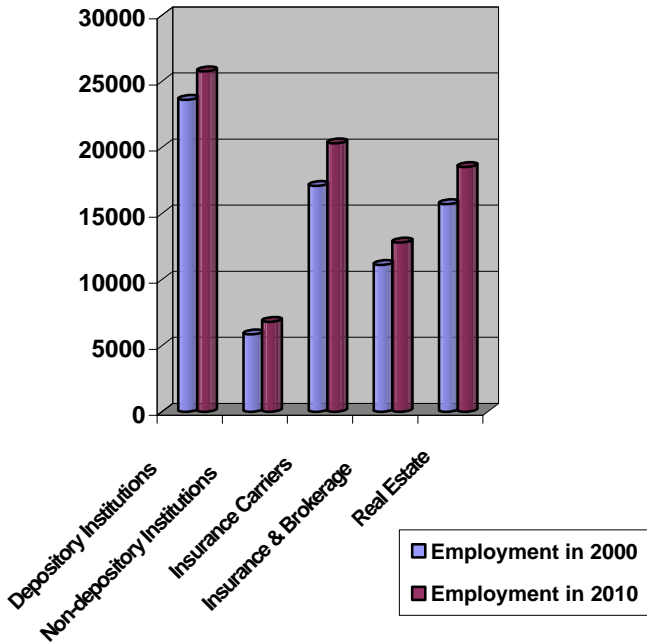
7.1 Employment Projection for Finance, Insurance, and Real Estate Industry (2000 – 2010)

F.I.R.E.	Employment in 2000	Employment in 2010	Employment Growth	Annual % Growth for Oklahoma
Depository Institutions	23,600	25,760	2,160	0.91%
Non-Depository Institutions	5,850	6,810	960	1.64%
Insurance Carriers	17,090	20,310	3,220	1.88%
Insurance & Brokerage	11,100	12,810	1,710	1.54%
Real Estate	15,710	18,520	2,820	1.79%
Total	73,350	84,200	10,860	1.48%

Within this industry cluster, the sector generating the largest number of new employment will be **Insurance Carriers**. This sector will provide 3,220 new jobs by 2010.

The sectors adding the second, third, fourth, and fifth largest number of new jobs will be **Real Estate** (+2,820 jobs), **Depository Institutions** (+2,160 jobs), **Insurance & Brokerage** (+1,710 jobs), and **Non-depository Institutions** (+960 jobs). The **Insurance Carriers** and **Real Estate** sectors alone will contribute 55.6 percent of employment growth in the industry, which means just under six out of every 10 new jobs created within **F.I.R.E.** will come from these sectors.

Employment Projection for Finance, Insurance, and Real Estate Industry (2000 - 2010)



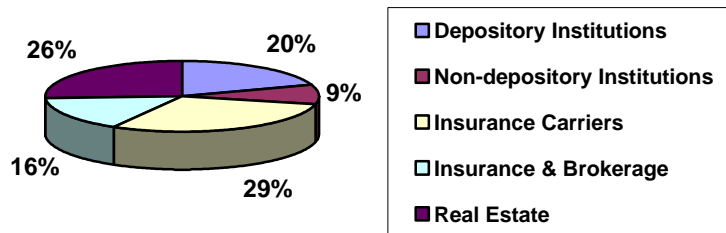
Within this industry cluster, **Insurance Carriers** is expected to generate the largest number of new jobs between 2000 and 2010. This sector is also projected to have the highest rate of employment growth. Other sectors to experience more than a 1 percent annual employment growth rate are **Real Estate** (+1.79 percent), **Non-depository Institutions** (+1.64 percent), and **Insurance & Brokerage** (+1.54 percent).

The sector expected to experience the slowest employment growth is **Depository Institutions**, which will grow by 0.91 percent annually.

Within the **F.I.R.E.** industry, the **Insurance Carriers** sector will account for about three of every 10 new jobs created by 2010. While the **Real Estate** sector will contribute 26 percent of new jobs, **Depository Institutions** will contribute 20 percent.

Similarly, other sectors contributing in new job creation are **Insurance & Brokerage** (+16 percent) and **Non-depository Institutions** (+9 percent).

7.2 Employment Growth Share Within Finance, Insurance, and Real Estate Industry (2000 - 2010)



8. Oklahoma Employment Projection For Construction Industry (2000 – 2010)

Construction will add 8,180 new jobs by the end of 2010, earning a 3.3 percent share in new employment. Within this industry, the *Construction-Special Trade* sector will be both the fastest growing sector with a 1.82 percent annual employment growth rate and the largest sector for new employment by adding more than eight of every 10 new jobs.

The **Construction** industry is the eighth largest industry and is expected to hold the same spot through 2010. This industry is projected to be the seventh largest industry to generate new employments and the sixth fastest growing industry in terms of employment. Its annual employment growth rate is projected to be 1.36 percent.

8.1 Employment Projection for Construction Industry (2000 – 2010)

Construction	Employment in 2000	Employment in 2010	Employment Growth	Annual % Growth for Oklahoma
Building Construction	12,650	13,860	1,210	0.96%
Heavy Construction	11,080	11,410	320	0.29%
Construction-Special Trade	36,510	43,160	6,650	1.82%
Total	60,250	68,430	8,180	1.36%

Within this industry cluster, the sector generating the largest number of new jobs will be the **Construction-Special Trade** sector. This sector will provide 6,650 new jobs by 2010.

The sectors adding the second and third largest number of new jobs will be **Building Construction** (+1,210 jobs) and **Heavy Construction** (+320 jobs). **Construction-Special Trade** alone will contribute 81.26 percent of new jobs created between 2000 and 2010, which means more than eight out of every 10 new jobs created will be in this sector.

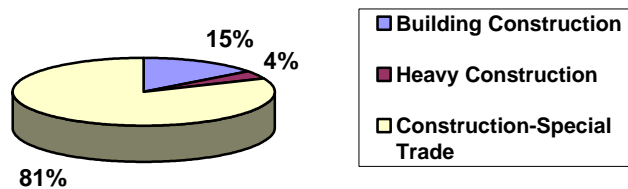
**Employment Projection for the Construction Industry
(2000 - 2010)**



In contrast to the **Construction-Special Trade** sector will be **Heavy Construction**, the smallest and slowest growing sector. **Heavy Construction** and **Building Construction** will experience annual employment growth rates of 0.29 percent and 0.96 percent, respectively.

Out of a total 8180 new jobs projected to be created within the **Construction** industry, the **Construction-Special Trade** sector will account for most of the jobs. This sector alone will generate eight out of every 10 new jobs created from 2000 until 2010.

**8.2 Employment Growth Share Within
Construction Industry (2000 - 2010)**



Building Construction will account for 15 percent of jobs created, while **Heavy Construction** will be responsible for 4 percent of new jobs during the projection period.

9. Oklahoma Employment Projection For Mining Industry (2000 – 2010)

The *Mining* industry is expected to lose 3,600 jobs by the end of 2010. Within this industry, the *Oil & Gas Extraction* sector will be both the fastest shrinking sector (-1.31 percent annual growth rate) and the sector to lose the largest number of jobs (-3,560).

Mining is the ninth largest (or the second smallest) industry. It is expected to remain at the same employment level through 2010. This industry is projected to be the only industry to shrink in the projection period, losing 1.23 percent of its jobs every year until 2010.

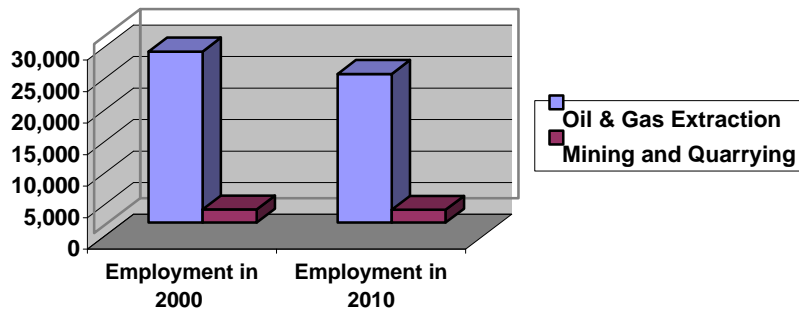
9.1 Employment Projection for Mining Industry (2000 – 2010)

Mining	Employment in 2000	Employment in 2010	Employment Growth	Annual % Growth for Oklahoma
Oil & Gas Extraction	27,130	23,570	-3,560	-1.31%
Mining & Quarrying	2,080	2,030	-40	-0.21%
Total	29,200	25,600	-3,600	1.24%

Within this industry, the **Oil & Gas Extraction** sector will lose most of the jobs. This sector alone will drop 3,560 jobs. The other sector in this industry, **Mining & Quarrying**, is expected to lose 40 jobs by 2010.

The shrinkage of this industry will cause a 1.41 percent loss in total new employment created and will offset employment growth in other sectors by 1.5 percent.

Employment Projection for the Mining Industry
(2000 - 2010)



10. Oklahoma Employment Projection For Agricultural Services Industry (2000 – 2010)

The *Agricultural Services* industry will add 1,750 jobs by the end of 2010. This industry will experience a 2.29 percent annual employment growth between 2000 and 2010.

The **Agricultural Services** industry is the smallest industry and is expected to remain so through 2010. This industry is the second fastest growing industry with a 2.29 percent annual employment growth rate.

10.1 Employment Projection for Agriculture Industry (2000 – 2010)

Agriculture	Employment in 2000	Employment in 2010	Employment Growth	Annual % Growth for Oklahoma
Agricultural Services	7,640	9,390	1,750	2.29%
Total	7,640	9,390	1,750	2.29%

In 2000, this industry provided a total of 7,640 jobs; by 2010, it is expected to supply 9,390 jobs. Thus, an additional 1,750 jobs will be created in this industry. Although **Agricultural Services** is the smallest industry in terms of employment, its employment growth rate is expected to be the second highest of all industries in the state.

11. Oklahoma Employment Projection For Government (2000 – 2010)

Government will add 22,850 new jobs by the end of 2010, creating 9.22 percent of all new jobs in the state. Within this industry cluster, the *Local Government* sector will be both the fastest growing sector with a 1.37 percent annual employment growth rate and the largest sector for new employment by adding nine of every 10 new jobs in the industry.

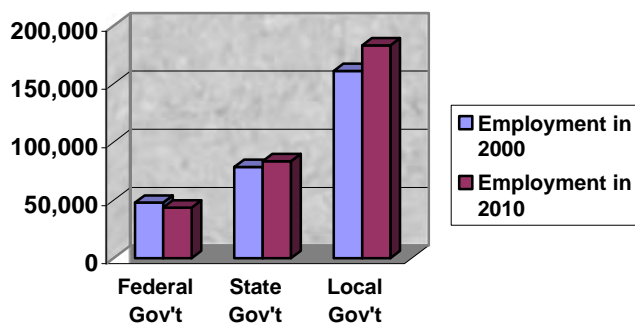
Government is the second largest industry and is expected to be the third largest industry in providing new employment by 2010. This industry is expected to be the eighth fastest growing industry in terms of employment with an annual employment growth rate of 0.79 percent.

11.1 Employment Projection for Government Sector (2000 – 2010)

Government	Employment in 2000	Employment in 2010	Employment Growth	Annual % Growth for Oklahoma
Federal Government	47,850	43,630	-4,220	-0.88%
State Government	78,630	83,650	5,020	0.64%
Local Government	161,220	183,280	22,060	1.37%
Total	287,710	310,560	22,850	0.79%

Within this industry cluster, the sector generating the largest number of new jobs will be **Local Government**. This sector will provide 22,060 new jobs by 2010.

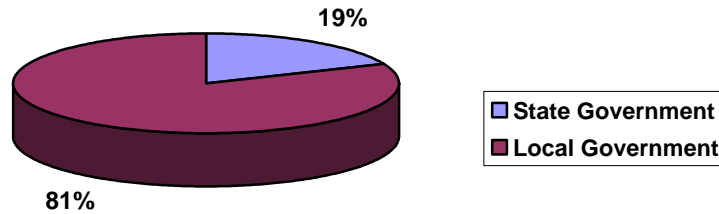
**Employment Projection for the Government
Sector (2000 - 2010)**



State Government will also enjoy positive growth during the period, adding 5,020 new jobs by 2010. **Federal Government**, on the other hand, will lose 4,220 jobs during the same period. **Local Government** alone will contribute 81.5 percent of new job growth, which means eight of every 10 new jobs created within **Government** will come from **Local Government**.

The **Local Government** sector will be both the largest and the fastest growing sector in terms of employment. Employment in **Local Government** will grow by 1.37 percent annually. The second largest sector is **State Government**, which will experience 0.64 percent annual employment growth. While **Local** and **State Government** will expand during this period, **Federal Government** will shrink, losing 4,220 jobs.

11.2 Employment Growth Share Within the Government Sector (2000 - 2010)



Out of a total 22,850 new jobs created within **Government**, the **Local Government** sector will account for most of the jobs. This sector alone will generate eight out of every 10 jobs added in this industry between 2000 and 2010.

The other expanding sector, **State Government**, will account for 19 percent of new jobs created within the **Government** in the projection period.

12. Oklahoma Employment Projection By Occupation (2000 – 2010)

Total employment in Oklahoma is projected to increase by 253,490 jobs between 2000 and 2010. Of the total employment growth, *Office and Administrative Support Occupations* contributes the largest portion of the growth at 10.13 percent. The second and the third largest contributors of the employment growth are *Sales and Related Occupations* and *Food Preparation and Serving Related Occupations* with 9.76 percent and 8.38 percent, respectively. While *Computer and Mathematical Occupations* will experience the highest rate of employment growth (67.33 percent during this period), the *Production Occupations* will be the slowest growing with an employment growth rate of 7.78 percent.

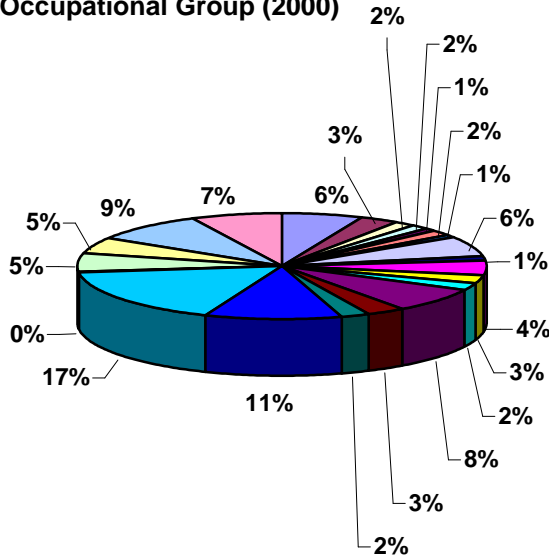
The total employment in Oklahoma is projected to increase from 1,578,470 jobs in 2000 to 1,831,960 jobs in 2010. A total of 253,490 new jobs will be created during this period.

Employment Projection By Major Occupation (2000 – 2010)

Occupation Group	Oklahoma Employment				U.S. Employment	
	Number		Change (2000 - 2010)		Change (2000 - 2010)	
	2000	2010	Jobs	Percent	Jobs	Percent
Management Occupations	99,570	116,310	16,740	16.81%	1,270,000	12.0%
Business and Financial Operations Occupations	51,180	59,260	8,080	15.78%	845,000	17.1%
Computer and Mathematical Occupations	24,270	40,600	16,340	67.33%	1,995,000	66.7%
Architecture and Engineering Occupations	24,100	26,040	1,940	8.03%	325,000	12.5%
Life, Physical, and Social Science Occupations	12,610	14,380	1,770	14.01%	222,000	19.1%
Community and Social Services Occupations	26,030	32,150	6,120	23.52%	529,000	28.3%
Legal Occupations	11,520	12,910	1,390	12.08%	216,000	19.3%
Education, Training, and Library Occupations	98,220	119,460	21,240	21.63%	1,571,000	19.0%
Art, Design, Entertainment, Sports, and Media Occupations	20,380	24,730	4,350	21.35%	493,000	20.8%
Healthcare Practitioners and Technical Occupations	69,680	86,040	16,370	23.49%	1,599,000	25.1%
Healthcare Support Occupations	41,990	54,640	12,660	30.14%	1,067,000	33.4%
Protective Service Occupations	31,950	39,330	7,380	23.10%	809,000	26.2%
Food Preparation and Serving Related Occupations	118,840	140,070	21,230	17.86%	1,577,000	15.6%
Building and Grounds Cleaning and Maintenance Occupations	49,830	59,300	9,470	19.01%	779,000	14.0%
Personal Care and Service Occupations	33,620	43,080	9,460	28.14%	856,000	20.9%
Sales and Related Occupations	169,770	194,500	24,730	14.57%	1,852,000	11.9%
Office and Administrative Support Occupations	271,260	296,930	25,670	9.46%	2,171,000	9.1%
Farming, Fishing, and Forestry Occupations	4,170	4,640	470	11.35%	51,000	3.6%
Construction and Extraction Occupations	85,300	96,970	11,680	13.69%	989,000	13.3%
Installation, Maintenance, and Repair Occupations	78,220	87,540	9,320	11.92%	662,000	11.4%
Production Occupations	144,040	155,250	11,210	7.78%	750,000	5.7%
Transport and Material Moving Occupations	111,940	127,820	15,880	14.18%	1,530,000	15.2%
Total, All Occupations	1,578,470	1,831,960	253,490	16.06%	22,160,000	15.2%

Of the total new jobs, **Office and Administrative Support** will add the highest number of jobs with 25,670. **Sales and Related Occupations** and **Education, Training, and Library Occupations** clusters will be the second and third largest contributors of new jobs by adding 24,730 and 21,240 new jobs, respectively.

Employment Share By Occupational Group (2000)

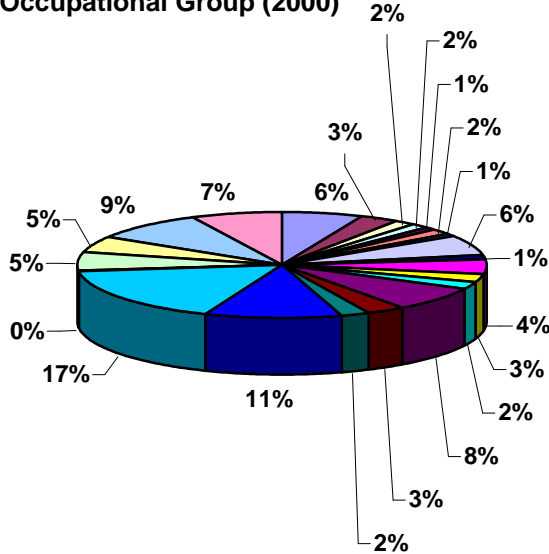


- Management Occupations
- Business and Financial Operations Occupations
- Computer and Mathematical Occupations
- Architecture and Engineering Occupations
- Life, Physical, and Social Science Occupations
- Community and Social Services Occupations
- Legal Occupations
- Education, Training, and Library Occupations
- Art, Design, Entertainment, Sports, and Media Occupations
- Healthcare Practitioners and Technical Occupations
- Healthcare Support Occupations
- Protective Service Occupations
- Food Preparation and Serving Related Occupations
- Building and Grounds Cleaning and Maintenance Occupations
- Personal Care and Service Occupations
- Sales and Related Occupations
- Office and Administrative Support Occupations
- Farming, Fishing, and Forestry Occupations
- Construction and Extraction Occupations
- Installation, Maintenance, and Repair Occupations
- Production Occupations
- Transport and Material Moving Occupations

Food Preparation and Serving Related Occupations and **Management Occupations** will be the fourth and the fifth largest contributors of new jobs. These occupation clusters will add 21,230 and 16,740 new jobs, respectively.

Most of the occupational employment growth will occur in seven major occupational groups (clusters): **Office and Administrative Support Occupations**; **Sales and Related Occupations**; **Education, Training, and Library Occupations**; **Food Preparation and Serving Related Occupations**; **Management Occupations**; **Healthcare Practitioners and Technical Occupations**; and **Computer and Mathematical Occupations**. These seven occupation clusters alone will add 56.14 percent of new jobs between 2000 and 2010.

Employment Share By Occupational Group (2000)



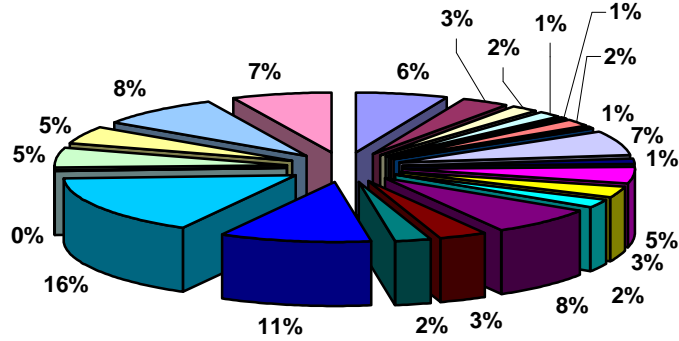
- Management Occupations
- Business and Financial Operations Occupations
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- Architecture and Engineering Occupations
- Life, Physical, and Social Science Occupations
- Community and Social Services Occupations
- Legal Occupations
- Education, Training, and Library Occupations
- Art, Design, Entertainment, Sports, and Media Occupations
- Healthcare Practitioners and Technical Occupations
- Healthcare Support Occupations
- Protective Service Occupations
- Food Preparation and Serving Related Occupations
- Building and Grounds Cleaning and Maintenance Occupations
- Personal Care and Service Occupations
- Sales and Related Occupations
- Office and Administrative Support Occupations
- Farming, Fishing, and Forestry Occupations
- Construction and Extraction Occupations
- Installation, Maintenance, and Repair Occupations
- Production Occupations
- Transport and Material Moving Occupations

The rankings of the occupation clusters in terms of employment share will not see significant change during the 2000 to 2010 period. **Office and Administrative Support Occupations** will continue to be the most dominant occupation cluster in terms of employment from 2000 through 2010. This occupation group held 17 percent of the total employment in 2000 and is expected to claim 16 percent of it in 2010. The second largest occupation group, **Sales and Related Occupations**, contributed 11 percent of total employment in 2000 and is projected to keep the same share in 2010.

The third and fourth largest occupation groups, **Production Occupations** and **Food Preparation and Serving Related Occupations**, contributed 9 percent and 8 percent of total employment in 2000, respectively, and each of the groups are expected to provide 8 percent of total employment in 2010. Similarly, the fifth largest occupation group, **Transportation and Material Moving Occupations**, added 7 percent of total employment in 2000 and is expected to keep that share through 2010.

The above five major occupation groups together contribute more than 50 percent of total employment both in 2000 and 2010.

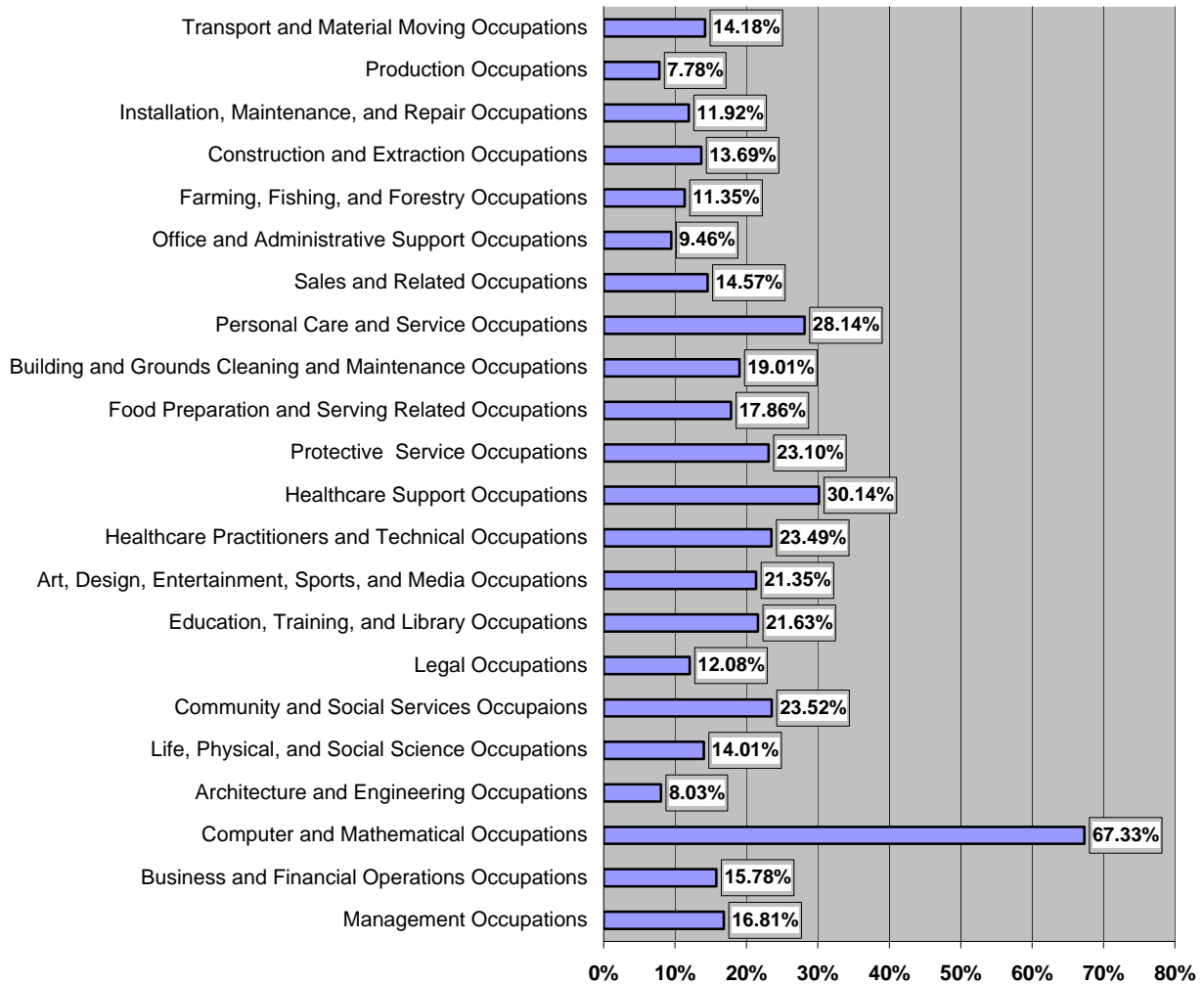
Employment Share By Occupational Group (2010)



- Management Occupations
- Business and Financial Operations Occupations
- Computer and Mathematical Occupations
- Architecture and Engineering Occupations
- Life, Physical, and Social Science Occupations
- Community and Social Services Occupations
- Legal Occupations
- Education, Training, and Library Occupations
- Art, Design, Entertainment, Sports, and Media Occupations
- Healthcare Practitioners and Technical Occupations
- Healthcare Support Occupations
- Protective Service Occupations
- Food Preparation and Serving Related Occupations
- Building and Grounds Cleaning and Maintenance Occupations
- Personal Care and Service Occupations
- Sales and Related Occupations
- Office and Administrative Support Occupations
- Farming, Fishing, and Forestry Occupations
- Construction and Extraction Occupations
- Installation, Maintenance, and Repair Occupations
- Production Occupations
- Transport and Material Moving Occupations

The following diagram presents the annual employment growth rate for each of the occupation clusters from 2000 to 2010. With a 6.74 percent annual employment growth rate, **Computer and Mathematical Occupations** is expected to be the fastest growing occupation cluster. **Healthcare Support Occupations** will be the second fastest growing occupation cluster with an annual employment growth rate of 3.01 percent.

Employment Growth Rate for Each Occupational Group (2000 - 2010)



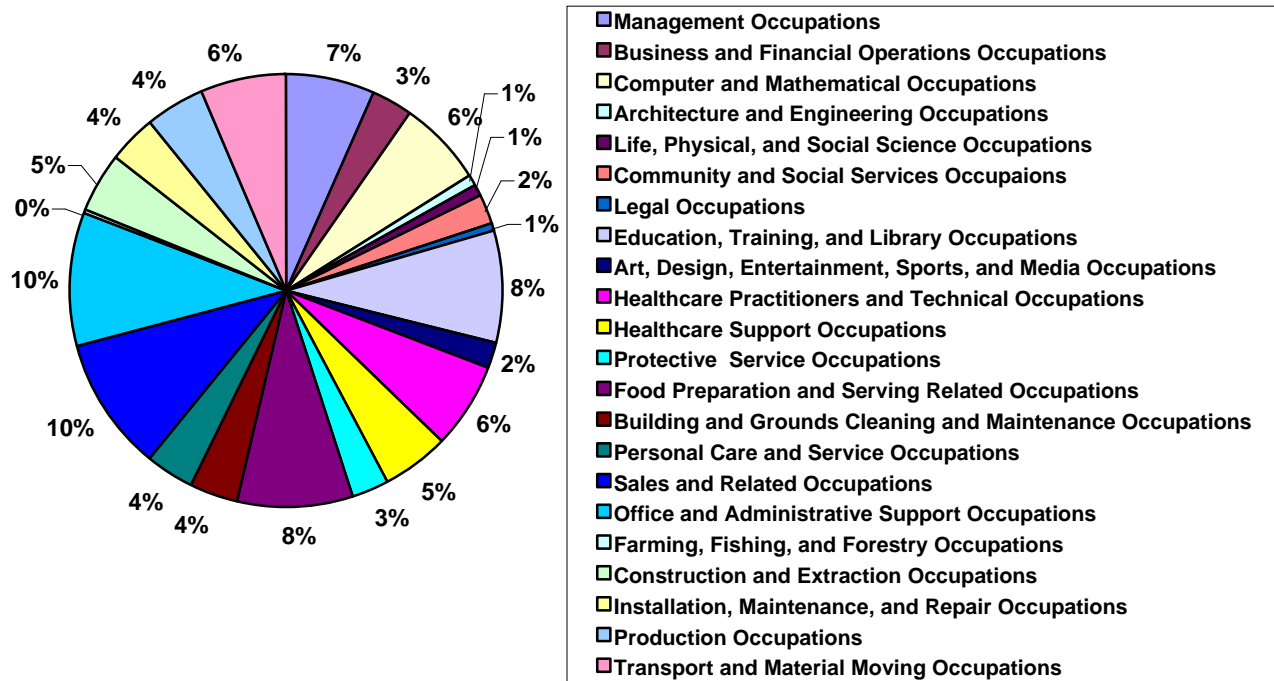
Personal Care and Service Occupations and **Community and Social Services Occupations** are predicted to be the third and the fourth fastest growing occupation clusters with 2.81 percent and 2.35 percent annual employment growth rates, respectively. Similarly, **Healthcare Practitioners and Technical Occupations**, **Protective Service Occupations**, and **Education, Training, and Library Occupations** will be the fifth, sixth, and seventh fastest growing occupation clusters with annual employment growth rates of 2.35 percent, 2.31 percent, and 2.16 percent, respectively.

In the period between 2000 and 2010, the **Production Occupations**, **Architecture and Engineering Occupations**, and **Office and Administrative Support Occupations** will be the least growing occupation clusters with less than 1 percent annual employment growth rates. These occupation clusters will grow annually by 0.78 percent, 0.80 percent, and 0.95 percent, respectively.

Out of 22 occupation clusters, 13 will report employment growth rates higher than the corresponding national rates, whereas the other nine will grow more slowly than the national rates.

On average, the annual occupational employment growth rate of Oklahoma, which is expected to be 1.61 percent, will outperform the projected national rate of 1.52 percent during this period.

Share In Employment Growth By Occupation (2000 - 2010)



Among the 22 occupational groups, **Sales and Related Occupations** and **Office and Administrative Support Occupations** will have the largest shares in new employment created between 2000 and 2010. Each of these occupational groups is expected to contribute 10 percent of new employment in this period.

During this period, the occupational groups with the third and fourth largest shares in new jobs will be **Education, Training, and Library Occupations** and **Food Preparation and Serving Related Occupations**. These two groups are expected to provide 8 percent of new jobs each. Similarly, **Management Occupations**, **Healthcare Practitioners and Technical Occupations**, and **Transport and Material Moving Occupations** will be the fifth, sixth, and seventh largest occupational groups in terms of their share in new employment, respectively.

The occupational groups with a 1 percent or less share in new employment are **Architecture and Engineering Occupations**; **Life, Physical, and Social Science Occupations**; **Legal Occupations**; and **Farming, Fishing, and Forestry Occupations**.

Occupations With Largest Employment

The table below lists Oklahoma's top 30 occupations with the largest number of employment between 2000 and 2010. **Retail Salespersons** was the occupation with largest number of employment in 2000 and will remain so through 2010. Similarly, the **Cashiers** and **Office Clerks** occupations will retain the second and third positions in terms of employment through 2010.

12.1 Oklahoma's Top 30 Occupations With Largest Employment

Occupational Title	Employment		Growth Rate	Average Annual Openings
	2000	2010		
Retail Salespersons	47,530	55,450	16.66%	2,600
Cashiers	40,370	45,260	12.10%	2,320
Office Clerks, General	37,110	42,710	15.10%	1,270
General and Operations Managers	31,460	36,020	14.51%	990
Combined Food Preparation and Serving Workers, Including Fast Food	28,630	38,640	34.97%	2,750
Secretaries, Except Legal, Medical, and Executive	27,890	27,540	-1.25%	470
Truck Drivers, Heavy and Tractor Trailer	25,210	29,910	18.61%	820
Janitors and Cleaners, Except Maids and Housekeeping Cleaners	24,530	28,880	17.71%	880
Customer Service Representatives	23,000	31,460	36.80%	1,040
Laborers and Freight, Stock, and Material Movers, Hand	22,990	26,100	13.53%	1,080
First-Line Supervisors/Managers of Retail Sales Workers	22,680	25,320	11.62%	590
Nursing Aides, Orderlies, and Attendants	22,490	27,810	23.67%	820
Bookkeeping, Accounting, and Auditing Clerks	22,420	23,370	4.21%	520
Waiters and Waitresses	21,420	25,960	21.20%	1,660
Registered Nurses	20,490	25,380	23.85%	900
Elementary School Teachers, Except Special Education	18,850	22,280	18.22%	770
Stock Clerks and Order Fillers	18,040	19,160	6.23%	750
Team Assemblers	15,870	17,020	7.27%	390
First-Line Supervisors/Managers of Office & Admin. Support Workers	15,440	17,030	10.29%	460
Executive Secretaries and Administrative Assistants	14,900	16,250	9.05%	390
Secondary School Teachers, Except Special and Vocational Education	13,460	16,670	23.86%	730
Maintenance and Repair Workers, General	13,150	13,960	6.19%	250
Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	13,110	13,890	5.89%	430
Truck Drivers, Light or Delivery Services	12,490	14,860	19.03%	410
Licensed Practical and Licensed Vocational Nurses	12,430	14,740	18.58%	550
Receptionists and Information Clerks	12,270	14,590	18.85%	500
Maids and Housekeeping Cleaners	11,870	14,170	19.35%	490
Teacher Assistants	11,730	14,840	26.50%	560
Accountants and Auditors	10,910	12,810	17.44%	350
Construction Laborers	9,970	12,500	25.32%	340

Among the top 30 largest employing occupations, the **Customer Service Representatives** occupation will report the fastest employment growth between 2000 and 2010. This occupation will grow by 36.80 percent during this projection period. The other occupation in this category to grow by more than 30 percent in employment is **Combined Food Preparation and Serving Workers, Including Fast Food**. This occupation will grow by 34.97 percent in this period.

Retail Salespersons was the largest employing occupation in 2000

Secretaries, Except Legal, Medical, and Executive Occupations will have fewer jobs in 2010 than in 2000

Secretaries, Except Legal, Medical, and Executive is expected to shrink during the projection period. This occupation will drop by 1.25 percent between 2000 and 2010, meaning this occupation will have 350 less jobs in 2010 than in 2000.

Although **Retail Salespersons** and **Cashiers** are the first and second largest occupations in terms of employment, they hold the second and third positions in offering employment. The **Combined Food Preparation and Serving Workers, Including Fast Food** occupation will see the largest number of job openings. This occupation will offer 2,750 jobs every year between 2000 and 2010. The first and the second largest employing occupations, **Retail Salespersons** and **Cashiers**, will offer 2,600 and 2,320 jobs, respectively.

Retail Salespersons will be the largest employing occupation in 2010

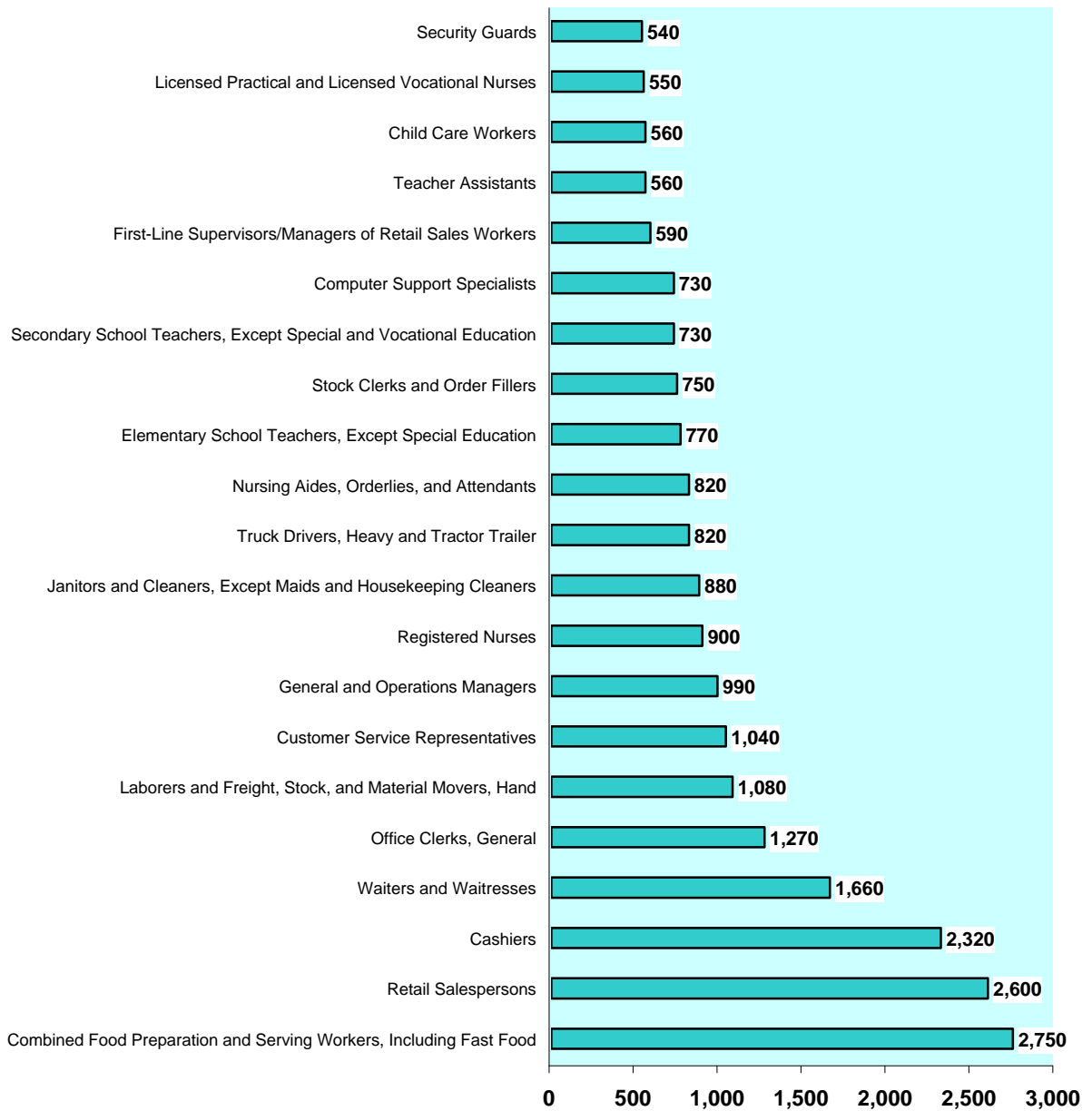
Occupations With Largest Number of Openings

The table below lists Oklahoma's top 30 occupations with the largest number of job openings between 2000 and 2010. **Combined Food Preparation and Serving Workers, Including Fast Food** will offer the highest number of jobs. The second and the third largest job-offering occupations will be the **Retail Salespersons** and **Cashier** occupations, respectively.

12.2 Oklahoma's Top 30 Occupations With Largest Number of Openings

Occupation	Average Annual Openings
Combined Food Preparation and Serving Workers, Including Fast Food	2,750
Retail Salespersons	2,600
Cashiers	2,320
Waiters and Waitresses	1,660
Office Clerks, General	1,270
Laborers and Freight, Stock, and Material Movers, Hand	1,080
Customer Service Representatives	1,040
General and Operations Managers	990
Registered Nurses	900
Janitors and Cleaners, Except Maids and Housekeeping Cleaners	880
Nursing Aides, Orderlies, and Attendants	820
Truck Drivers, Heavy and Tractor Trailer	820
Elementary School Teachers, Except Special Education	770
Stock Clerks and Order Fillers	750
Secondary School Teachers, Except Special and Vocational Education	730
Computer Support Specialists	730
First-Line Supervisors/Managers of Retail Sales Workers	590
Child Care Workers	560
Teacher Assistants	560
Licensed Practical and Licensed Vocational Nurses	550
Security Guards	540
Bookkeeping, Accounting, and Auditing Clerks	520
Receptionists and Information Clerks	500
Maids and Housekeeping Cleaners	490
Secretaries, Except Legal, Medical, and Executive	470
First-Line Supervisors/Managers of Office and Administrative Support Workers	460
Telemarketers	450
Welders, Cutters, Solderers, and Brazers	450
Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	440
Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	430

Oklahoma Top 20 Occupations with Largest Number of Openings



Other than **Combined Food Preparation and Serving Workers, Retail Salespersons, and Cashiers**, the occupations with more than 1,000 average annual job openings are **Waiters and Waitresses; Office Clerks (General); Laborers and Freight, Stock, and Material Movers; and Customer Service Representatives**.

Oklahoma's Fastest Growing Occupations

The fastest growing occupation in Oklahoma will be **Computer Support Specialists**. The second and third fastest growing occupations will be **Network Systems and Data Communication Analysts** and **Computer Software Engineers, Applications, Network and Computer Systems Administrators** and **Computer Software Engineers, Systems Software** will be fourth and fifth, respectively.

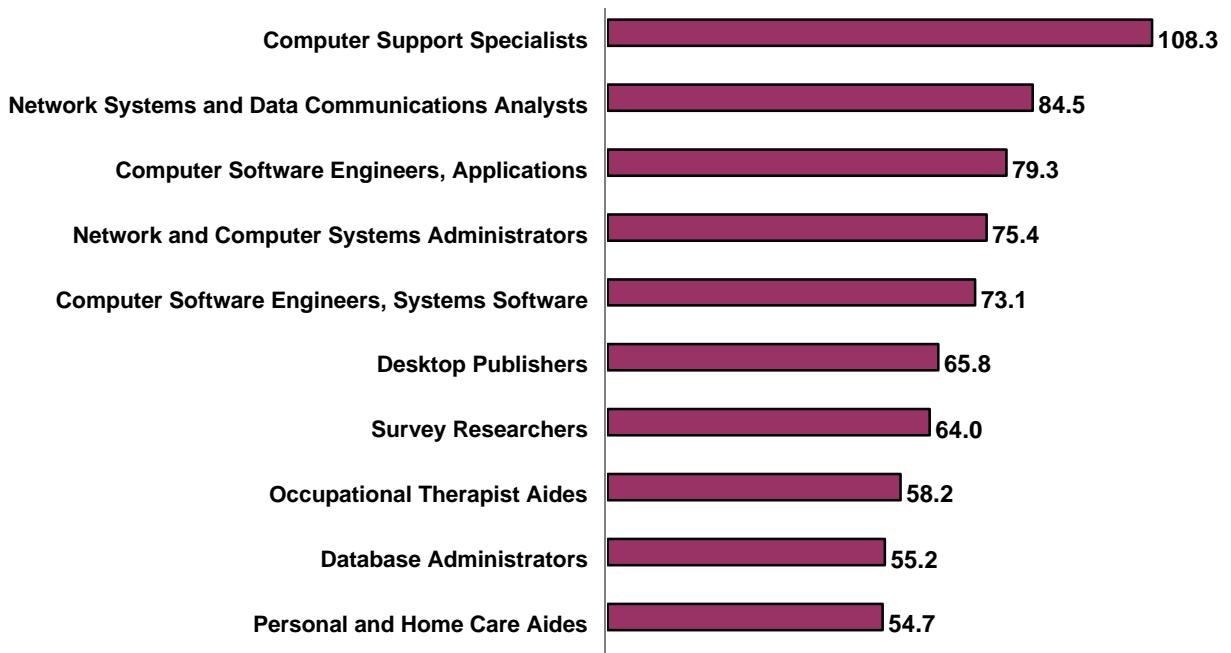
12.3 Oklahoma's Top 30 Fastest Growing Occupations

Occupational Title	Employment			Average Annual Openings
	2000	2010	Growth Rate	
Computer Support Specialists	6,460	13,460	108.30%	730
Network Systems and Data Communications Analysts	1,140	2,110	84.53%	100
Computer Software Engineers, Applications	2,160	3,870	79.31%	190
Network and Computer Systems Administrators	2,190	3,840	75.39%	170
Computer Software Engineers, Systems Software	2,230	3,850	73.06%	180
Desktop Publishers	190	310	65.78%	20
Survey Researchers	200	330	64.04%	20
Occupational Therapist Aides	170	270	58.24%	20
Database Administrators	990	1,540	55.15%	60
Personal and Home Care Aides	4,800	7,430	54.70%	340
Computer Specialists, All Other	820	1,240	51.71%	50
Medical Assistants	3,570	5,400	51.36%	280
Computer Systems Analysts	3,710	5,600	51.04%	220
Physician Assistants	1,200	1,780	48.17%	80
Medical Records and Health Information Technicians	1,910	2,820	47.23%	130
Audiologists	90	130	46.51%	10
Home Health Aides	5,970	8,740	46.50%	350
Public Relations Specialists	1,830	2,670	46.01%	120
Computer and Information Systems Managers	2,530	3,660	44.83%	160
Special Education Teachers, Preschool, Kindergarten, & Elementary School	2,170	3,090	42.65%	120
Respiratory Therapists	930	1,320	42.27%	60
Aircraft Cargo Handling Supervisors	110	150	41.12%	10
Correctional Officers and Jailers	3,390	4,760	40.62%	220
Chemical Equipment Operators and Tenders	270	370	38.01%	20
Massage Therapists	70	100	37.84%	10
Pharmacy Technicians	2,180	3,000	37.43%	140
Occupational Therapist Assistants	320	440	37.30%	20
Personal Financial Advisors	600	820	36.88%	30
Speech-Language Pathologists	980	1,340	36.85%	60
Customer Service Representatives	23,000	31,460	36.80%	1,040

Out of the listed top 30 fastest growing occupations, more than half are those related to health and information technology. All of the top 30 fastest growing occupations will experience more than 36 percent growth between 2000 and 2010. This means that these occupations will grow at more than 3 percent annually.

Computer Support Specialist will be the fastest growing occupation in Oklahoma

Projected Growth Rate For Top 10 Fastest Growing Occupations



More than 50% of the top 30 fastest growing occupations are those related to Health or Information Technology

The fastest growing occupation, **Computer Support Specialists**, will grow by 108.30 percent during the projection period, or more than 9 percent annually. Among the top 30 fastest growing occupations, **Customer Service Representatives** is one of the occupations with the largest number of employment as well as job openings.

Oklahoma's Occupations In Decline

The following table lists Oklahoma's top 30 declining occupations. The level of employment in these occupations will shrink between 2000 and 2010.

12.4 Oklahoma's Top 30 Declining Occupations

Occupational Title	Employment		Change		Avg. Annual Openings
	2000	2010	Jobs	Percent	
Order Clerks	2,970	2,340	-630	-21.19%	60
Sewing Machine Operators	4,240	3,640	-610	-14.33%	50
Switchboard Operators, Including Answering Service	2,420	1,970	-450	-18.51%	70
Roustabouts, Oil and Gas	2,780	2,370	-410	-14.75%	100
Dishwashers	5,030	4,620	-410	-8.05%	190
Insurance Claims and Policy Processing Clerks	2,410	2,020	-400	-16.42%	40
Word Processors and Typists	1,690	1,300	-390	-23.27%	30
Secretaries, Except Legal, Medical, and Executive	27,890	27,540	-350	-1.25%	470
Computer Operators	2,260	1,940	-320	-14.13%	40
Loan Interviewers and Clerks	1,690	1,370	-320	-18.93%	10
Meter Readers, Utilities	1,020	720	-300	-28.98%	30
Butchers and Meat Cutters	1,700	1,430	-270	-15.93%	40
Procurement Clerks	1,390	1,150	-250	-17.66%	30
Aircraft Mechanics and Service Technicians, FAA Certified	2,480	2,240	-240	-9.66%	50
Dining Room and Cafeteria Attendants and Bartender Helpers	3,040	2,820	-220	-7.11%	100
Office and Administrative Support Workers, All Other	2,270	2,060	-210	-9.14%	40
Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	3,910	3,710	-190	-4.89%	80
Wellhead Pumpers	960	780	-180	-19.06%	30
Rotary Drill Operators, Oil and Gas	1,150	990	-170	-14.64%	40
Electrical and Electronic Equipment Assemblers	2,010	1,840	-170	-8.38%	50
Eligibility Interviewers, Government Programs	1,120	960	-160	-14.03%	30
Wholesale and Retail Buyers, Except Farm Products	1,730	1,570	-160	-8.98%	50
Office Machine Operators, Except Computer	1,140	1,020	-130	-10.94%	40
Telephone Operators	330	210	-120	-36.25%	10
Electronic Home Entertainment Equipment Installers and Repairers	770	650	-120	-15.49%	10
Petroleum Engineers	770	650	-120	-15.14%	20
Postal Service Mail Sorters, Processors, & Processing Machine Operators	1,670	1,560	-110	-6.75%	40
Helpers-Extraction Workers	1,190	1,080	-110	-9.36%	50
Petroleum Pump System Operators, Refinery Operators, and Gaugers	1,400	1,300	-100	-7.22%	40
Purchasing Managers	1,350	1,250	-100	-7.41%	40

Of the 30 declining occupations in Oklahoma, **Order Clerk** will be the occupation losing the largest number of jobs.

**Order Clerk is
the most
declining
occupation in
Oklahoma**

Other occupations, which are expected to decline by more than 300 jobs are **Sewing Machine Operators; Switchboard Operators; Roustabouts; Dishwashers; Insurance Claims and Policy Processing Clerks; Word Processors and Typists; Secretaries; Computer Operators; Loan Interviewers and Clerks; and Meter Readers.**

The top 30 declining occupations in Oklahoma will lose a total of 7,720 jobs between 2000 and 2010.

The top 30 declining occupations in Oklahoma will lose 100 jobs or more from 2000 to 2010

Each of the top 30 declining occupations will lose 100 jobs or more during this projection period. While these occupations are in decline, they will have a positive number of job openings. This means the job openings are mainly due to replacement rather than growth.

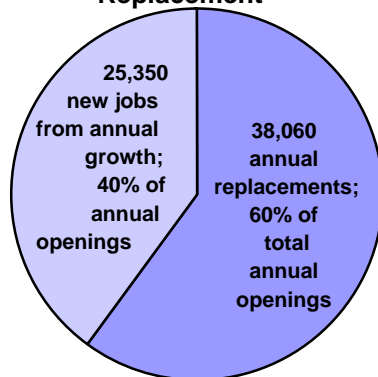
13. Skills and Employment Opportunities

The number of average annual openings for each skill category indicates that the **Short-term On-the-job Training** category has the highest number of job openings. This skill category also offers the highest number of employment in both 2000 and 2010. However, this skill category also faces the highest number of job replacements (turnover). The skill categories with the second and the third largest number of employment are **Moderate- or Long-term Training & Experience** and **Bachelor's Degree and Above**, respectively. These categories are also second and third in terms of average annual openings.

13.1 Employment and Openings Based On Education, Training, and Experience

Education, Training, and Experience	Average Annual Openings	Employment			Total Openings	Openings Due To Replacement	Openings Due To Growth
		2000	2010	Change 2000-2010			
Bachelor's & Above	12,570	320,330	384,250	63,920	125,700	61,780	63,920
Associate or Post-secondary Vocational Training	6,010	138,180	168,310	30,140	60,050	29,910	30,140
Work experience in a related occupation	3,530	111,030	124,310	13,280	35,260	21,980	13,280
Moderate- or Long-term Training & Experience	14,060	439,910	492,700	52,790	140,590	87,800	52,790
Short-term On-the-job Training	27,250	568,980	662,340	93,350	272,490	179,140	93,350
Total	63,410	1,578,430	1,831,910	253,480	634,080	380,610	253,480

Percentage Distribution Of Average Annual Openings (2000-2010) Due To Growth and Replacement



Between 2000 and 2010, the total number of job openings under different skill categories will be 634,080. Out of this, 40 percent will be due to growth and 60 percent due to replacement.

The numbers corresponding to the percentage distribution of employment and openings suggest that 43 percent of average annual openings will occur in the **Short-term On-the-job Training** category, 22.2 percent in the **Moderate- or Long-term Training & Experience** category, 19.8 percent in the **Bachelor's Degree and Above** category, 9.5 percent in **Associate or Post-secondary Vocational Training**, and 5.6 percent in **Work Experience in Related Occupation**. The table below shows that out of the five skill categories, **Bachelor's Degree and Above** and **Associate or Post-secondary Vocational Training** are the categories in which openings due to growth outweigh openings due to replacement.

13.2 Percentage Distribution of Employment and Openings Based On Education, Training, and Experience

Education, Training, and Experience	Average Annual Openings	Employment			Total Openings	Openings Due To Replacement	Openings Due To Growth
		2000	2010	Change 2000-2010			
Bachelor's & Above	19.8%	20.3%	21.0%	25.2%	19.8%	16.2%	25.2%
Associate or Post-secondary Vocational Training	9.5%	8.8%	9.2%	11.9%	9.5%	7.9%	11.9%
Work Experience in a Related Occupation	5.6%	7.0%	6.8%	5.2%	5.6%	5.8%	5.2%
Moderate- or Long-term Training & Experience	22.2%	27.9%	26.9%	20.8%	22.2%	23.1%	20.8%
Short-term On-the-job Training	43.0%	36.0%	36.2%	36.8%	43.0%	47.1%	36.8%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

The projected growth rates of jobs requiring varying levels of skills have been summarized in the following table and diagram. In overall employment growth rating, jobs requiring **Associate Degree** are expected to report the highest rate of employment growth. Jobs in this skill category will grow by 31.4 percent between 2000 and 2010.

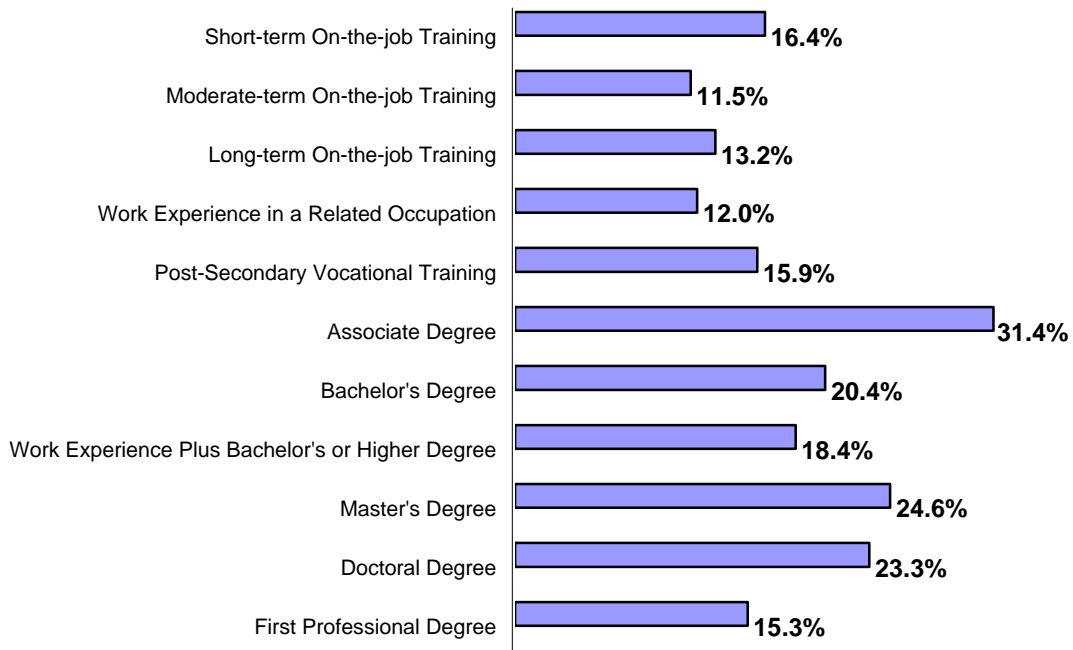
Similarly, jobs requiring a **Master's Degree** and those requiring a **Doctoral Degree** will be second and third in employment growth rating. These skill categories will report a 24.6 percent and a 23.3 percent growth rate, respectively, during this period.

Jobs requiring **Moderate-term On-the-job Training** will grow at the slowest rate (11.5 percent) in the ten-year period. On average, jobs requiring an **educational degree** are expected to have the highest rate of growth followed by those requiring **training** which, in turn, are followed by those requiring **work experience in a related occupation**.

Employment Based On Various Levels of Education, Training, and Experience

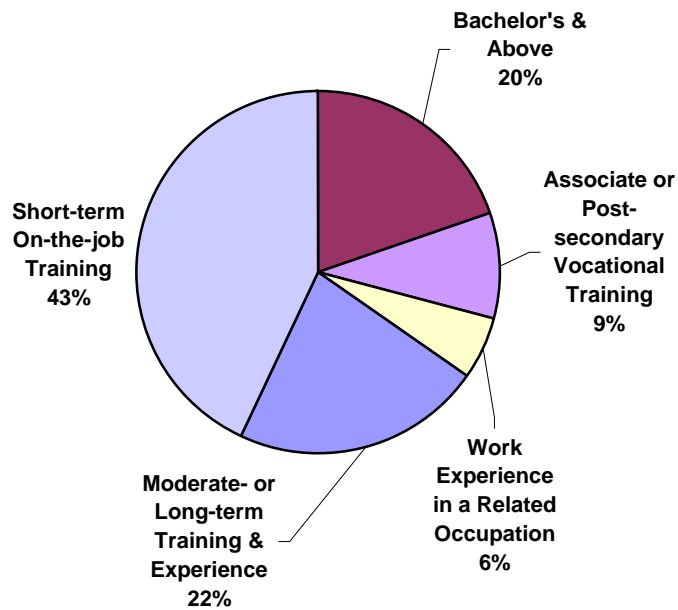
Education, Training, and Experience	Employment			
	2000	2010	Change 2000-2010	Percent Change 2000-2010
First Professional Degree	18,560	21,400	2,840	15.3%
Doctoral Degree	11,800	14,550	2,750	23.3%
Master's Degree	21,390	26,660	5,270	24.6%
Work Experience Plus Bachelor's or Higher Degree	83,110	98,430	15,320	18.4%
Bachelor's Degree	185,460	223,210	37,750	20.4%
Associate Degree	52,670	69,210	16,550	31.4%
Post-Secondary Vocational Training	85,510	99,100	13,590	15.9%
Work Experience in a Related Occupation	111,030	124,310	13,280	12.0%
Long-term On-the-job Training	125,790	142,340	16,550	13.2%
Moderate-term On-the-job Training	314,120	350,360	36,250	11.5%
Short-term On-the-job Training	568,980	662,340	93,350	16.4%

Projected Growth Rate of Employment (2000-2010) Requiring Various Education, Training, and Experience Levels



Regarding distribution of the number of openings, those with **Short-term On-the-job Training** will occupy 43 percent of the total openings in this period. Similarly, those who have **Moderate- or Long-term Training & Experience** and those with a **Bachelor's or Higher Degree** will make up 22 percent and 20 percent of the openings, respectively. Those who have **Associate or Post-secondary Vocational Training** and those who have a **Work Experience in a Related Occupation** will get a lower share of job openings (9 percent and 6 percent, respectively).

Percentage Distribution of Openings (2000-2010) Based On Education, Training, and Experience



14. Other Statistics On Oklahoma Employment Projection By Industry (2000 – 2010)

14.1 Oklahoma’s Top 20 Industries with Largest Employment in 2000

Rank	Industry	Employment in 2000
1	Local Government	161,220
2	Health Services	119,080
3	Business Services	104,380
4	Eating & Drinking Places	100,090
5	State Government	78,630
6	Federal Government	47,850
7	Membership Organizations	45,790
8	General Merchandise Stores	40,580
9	Wholesale Trade, Durable Goods	37,500
10	Food Stores	37,020
11	Special Trade Contractors	36,510
12	Engineering & Management Services	31,990
13	Auto Dealers & Service Stations	31,920
14	Miscellaneous Retail Stores	31,590
15	Wholesale Trade, Non-durable Goods	30,830
16	Industrial Machinery and Equipment	30,820
17	Social Services	30,590
18	Oil & Gas Extraction, Total	27,130
19	Trucking & Warehousing	23,920
20	Depository Institutions	23,600

14.2 Oklahoma's Top 20 Industries with Largest Employment in 2010

Rank	Industry	Employment in 2010
1	Local Government	183,280
2	Business Services	157,880
3	Health Services	149,420
4	Eating & Drinking Places	120,220
5	State Government	83,650
6	Membership Organizations	55,430
7	General Merchandise Stores	47,310
8	Engineering & Management Services	46,350
9	Federal Government	43,630
10	Special Trade Contractors	43,160
11	Wholesale Trade, Durable Goods	41,310
12	Social Services	40,740
13	Miscellaneous Retail Stores	38,110
14	Auto Dealers & Service Stations	36,430
15	Food Stores	35,620
16	Wholesale Trade, Non-durable Goods	33,280
17	Industrial Machinery and Equipment	32,320
18	Communications	29,730
19	Trucking & Warehousing	27,980
20	Fabricated Metal Products	26,120

14.3 Oklahoma's Top 20 Largest Industries to Create New Employment During 2000 - 2010

Rank	Industry	Employment Growth (2000- 2010)
1	Business Services	53,500
2	Health Services	30,350
3	Local Government	22,060
4	Eating & Drinking Places	20,130
5	Engineering & Management Services	14,360
6	Social Services	10,150
7	Membership Organizations	9,650
8	General Merchandise Stores	6,730
9	Special Trade Contractors	6,650
10	Miscellaneous Retail Stores	6,520
11	Communications	6,150
12	State Government	5,020
13	Auto Dealers & Service Stations	4,510
14	Auto Repair Services & Parking	4,250
15	Trucking & Warehousing	4,060
16	Amusement & Recreation Services	3,910
17	Wholesale Trade, Durable Goods	3,810
18	Insurance Carriers	3,220
19	Fabricated Metal Products	3,180
20	Transportation by Air	3,090

14.4 Oklahoma's Top 20 Fastest Growing Industries (in Employment)

Rank	Industry	Annual % Growth for Oklahoma
1	Business Services	5.13%
2	Engineering & Management Services	4.49%
3	Water Transportation	3.67%
4	Social Services	3.32%
5	Local & Interurban Transit	3.17%
6	Amusement & Recreation Services	2.86%
7	Museums, Botanical, Zoological Garden	2.68%
8	Communications	2.61%
9	Health Services	2.55%
10	Auto Repair Services & Parking	2.37%
11	Legal Services	2.36%
12	Transportation Services	2.31%
13	Agricultural Services	2.28%
14	Furniture & Home-furnishing Stores	2.22%
15	Membership Organizations	2.11%
16	Miscellaneous Retail Stores	2.06%
17	Eating & Drinking Places	2.01%
18	Rubber & Miscellaneous Plastic Products	2.00%
19	Educational Services	1.99%
20	Paper & Allied Products	1.94%

14.5 U. S. Top 20 Fastest Growing Industries (in Employment)

Rank	Industry	Annual % Growth for U.S.
1	Business Services	5.14%
2	Social Services	4.22%
3	Agricultural Services	3.86%
4	Engineering & Management Services	3.63%
5	Amusement & Recreation Services	3.45%
6	Legal Services	3.37%
7	Local & Interurban Transit	3.10%
8	Health Services	2.81%
9	Museums, Botanical, Zoological Garden	2.69%
10	Transportation by Air	2.49%
11	Transportation Services	2.41%
12	Educational Services	2.27%
13	Auto Repair Services & Parking	2.23%
14	Trucking & Warehousing	2.19%
15	Miscellaneous Retail Stores	1.85%
16	Eating & Drinking Places	1.83%
17	Real Estate	1.81%
18	Furniture & Home Furnishing Stores	1.76%
19	Communications	1.69%
20	Non-Depository Institutions	1.64%

15. Occupational Profiles

The Standard Occupational Code used for classifying occupations

2000 estimates are based on the Occupational Employment Survey. 2010 estimates are based on industry forecasts and modified by the Bureau of Labor Statistics Change Factors.

Job openings per year over the projection period.

Letters on the left describe the employment size, while letters on the right describe the growth rate. See Page 87.

Numeric and percentage growth over the projection period

The 2000 average hourly wage of the reported survey. See Page 87.

Based on BLS classification system. See Page 85.

SOC Code	Occupational Title	Employment		Employment Change, 2000-2010		Avg. Annual Openings	2000 Average Hourly Wage	Descriptor	Education Attainment
		2000	2010	Jobs	Percent				
00-0000	Total, All Occupations	1,578,470	1,831,960	253,490	16.06	63,410			
11-0000	Management Occupations	99,570	116,310	16,740	16.81	3,460			
11-1000	Top Executives	38,470	44,180	5,700	14.83	1,320			
11-1011	Chief Executives	6,520	7,600	1,070	16.45	310	40.37	AB	4
11-1021	General and Operations Managers	31,460	36,020	4,560	14.51	990	26.28	AB	4
11-1031	Legislators	490	560	70	13.85	20	9.69	CB	4
11-2000	Advertising, Marketing, Promotions, Public Relations, and Sales Managers	6,890	9,240	2,350	34.06	330			
11-2011	Advertising and Promotions Managers	800	1,060	260	32.38	40	21.38	BA	4
11-2021	Marketing Managers	1,430	1,860	430	30.36	60	28.23	BA	4
11-2022	Sales Managers	3,800	5,180	1,370	36.10	190	28.32	AA	4
11-2031	Public Relations Managers	860	1,140	280	32.75	40	21.07	BA	4
11-3000	Operations Specialties Managers	23,490	27,990	4,500	19.15	850			
11-3011	Administrative Services Managers	5,910	7,330	1,420	23.96	240	18.58	AA	4
11-3021	Computer and Information Systems Managers	2,530	3,660	1,130	44.83	160	29.76	AA	4
11-3031	Financial Managers	6,560	7,820	1,270	19.32	230	28.14	AB	4
11-3040	Human Resources Managers	2,780	3,080	300	10.84	80	24.64	AB	4
11-3051	Industrial Production Managers	2,650	2,910	260	9.80	70	26.34	AB	5
11-3061	Purchasing Managers	1,350	1,250	-100	-7.41	40	24.09	BD	4
11-3071	Transportation, Storage, and Distribution Managers	1,720	1,940	220	12.91	50	24.18	BB	8
11-9000	Other Management Occupations	30,720	34,910	4,190	13.64	960	23.23		
11-9011	Farm, Ranch, and Other Agricultural Managers	110	120	20	13.76	0	21.85	DB	4
11-9021	Construction Managers	2,110	2,410	300	14.19	70	23.44	AB	5
11-9031	Education Administrators, Preschool and Child Care Center/Program	830	1,120	290	34.94	50	*	BA	4
11-9032	Education Administrators, Elementary and Secondary School	2,720	3,160	440	16.02	110	*	AB	4
11-9033	Education Administrators, Postsecondary	1,400	1,560	160	11.29	50	*	BB	4
11-9039	Education Administrators, All Other	260	290	40	14.90	10	*	CB	4
11-9041	Engineering Managers	2,580	2,590	10	0.43	40	36.57	AC	4
11-9051	Food Service Managers	6,180	6,930	760	12.22	150	13.65	AB	8
11-9061	Funeral Directors	420	450	30	6.64	10	20.75	CB	6
11-9081	Lodging Managers	530	550	20	3.18	10	12.4	CC	8
11-9111	Medical and Health Services Managers	3,350	4,300	950	28.37	150	26.56	AA	4

SOC Code	Occupational Title	Employment		Employment Change, 2000-2010		Avg. Annual Openings	2000 Average Hourly Wage	Descriptor	Education Attainment
		2000	2010	Jobs	Percent				
11-9121	Natural Sciences Managers	470	460	-10	-1.28	10	28.27	CD	4
11-9131	Postmasters and Mail Superintendents	530	540	0	0.37	10	21.22	CC	8
11-9141	Property, Real Estate, and Community Association Managers	2,330	2,720	390	16.80	80	15.86	AB	5
11-9151	Social and Community Service Managers	1,570	1,930	360	23.11	70	14.45	BA	5
11-9199	Managers, All Other	5,280	5,700	420	8.00	140	25.22	AB	8
13-0000	Business and Financial Operations Occupations	51,180	59,260	8,080	15.78	1,770			
13-1000	Business Operations Specialists	30,600	35,130	4,530	14.79	1,060			
13-1011	Agents and Business Managers of Artists, Performers, and Athletes	140	170	30	23.36	10	20.92	DA	4
13-1021	Purchasing Agents and Buyers, Farm Products	190	220	20	11.86	10	15.95	DB	8
13-1022	Wholesale and Retail Buyers, Except Farm Products	1,730	1,570	-160	-8.98	50	16.81	BD	5
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	2,770	3,030	250	9.13	80	18.21	AB	5
13-1031	Claims Adjusters, Examiners, and Investigators	3,230	4,030	800	24.59	120	21.21	AA	9
13-1032	Insurance Appraisers, Auto Damage	120	140	30	24.35	0	21.16	DA	9
13-1041	Compliance Officers, Except Agriculture, Construction, Health and Safety, and Transportation	1,950	2,290	340	17.55	80	21	AB	9
13-1051	Cost Estimators	1,690	1,990	300	17.79	70	20.15	BB	5
13-1061	Emergency Management Specialists	330	390	60	18.96	20	15.87	CB	8
13-1071	Employment, Recruitment, and Placement Specialists	1,560	1,800	240	15.55	50	15.65	BB	5
13-1072	Compensation, Benefits, and Job Analysis Specialists	900	1,030	120	13.64	30	17.05	BB	5
13-1073	Training and Development Specialists	2,530	3,040	510	20.19	100	16.68	AB	5
13-1111	Management Analysts	4,350	5,220	870	20.06	130	22.19	AB	4
13-1121	Meeting and Convention Planners	300	370	60	20.72	10	14.91	CB	5
13-1199	Business Operations Specialists, All Other	8,820	9,850	1,030	11.73	330	22.53	AB	5
13-2000	Financial Specialists	20,580	24,130	3,550	17.26	710			
13-2011	Accountants and Auditors	10,910	12,810	1,900	17.44	350	18.64	AB	5
13-2021	Appraisers and Assessors of Real Estate	600	680	80	13.78	30	14	CB	7
13-2031	Budget Analysts	790	850	60	7.77	20	19.89	BB	5
13-2041	Credit Analysts	740	900	160	21.53	30	16.5	BB	5
13-2051	Financial Analysts	960	1,170	210	21.73	30	19.03	BB	5
13-2052	Personal Financial Advisors	600	820	220	36.88	30	29.97	CA	5
13-2053	Insurance Underwriters	620	650	30	4.49	10	18.72	BC	5
13-2061	Financial Examiners	320	350	30	10.63	10	24.2	CB	5
13-2071	Loan Counselors	300	370	70	21.45	10	13	CB	5
13-2072	Loan Officers	2,850	3,310	460	16.24	100	20.04	AB	5
13-2081	Tax Examiners, Collectors, and Revenue Agents	900	960	50	5.76	30	16.74	BC	5
13-2082	Tax Preparers	310	380	70	21.15	10	13.15	CB	10
13-2099	Financial Specialists, All Other	680	890	210	30.92	30	18.4	BA	5
15-0000	Computer and Mathematical Occupations	24,270	40,600	16,340	67.33	1,840			
15-1000	Computer Specialists	23,570	39,810	16,240	68.89	1,820			
15-1011	Computer and Information Scientists, Research	130	170	40	31.30	10	25.23	DA	2
15-1021	Computer Programmers	3,750	4,130	380	10.25	120	23.88	AB	5
15-1031	Computer Software Engineers, Applications	2,160	3,870	1,710	79.31	190	27.67	AA	5

SOC Code	Occupational Title	Employment		Employment Change, 2000-2010		Avg. Annual Openings	2000 Average Hourly Wage	Descriptor	Education Attainment
		2000	2010	Jobs	Percent				
15-1032	Computer Software Engineers, Systems Software	2,230	3,850	1,630	73.06	180	26.3	AA	5
15-1041	Computer Support Specialists	6,460	13,460	7,000	108.30	730	12.51	AA	6
15-1051	Computer Systems Analysts	3,710	5,600	1,890	51.04	220	23.61	AA	5
15-1061	Database Administrators	990	1,540	550	55.15	60	21.82	BA	5
15-1071	Network and Computer Systems Administrators	2,190	3,840	1,650	75.39	170	20.95	AA	5
15-1081	Network Systems and Data Communications Analysts	1,140	2,110	970	84.53	100	22.14	BA	5
15-1099	Computer Specialists, All Other	820	1,240	420	51.71	50	22.29	BA	7
15-2000	Mathematical Scientists	690	790	100	14.27	30			
15-2011	Actuaries	60	70	10	17.46	0	20.59	DB	4
15-2031	Operations Research Analysts	350	380	30	8.07	10	20.3	CB	3
15-2041	Statisticians	250	320	60	24.90	10	14.25	CA	3
17-0000	Architecture and Engineering Occupations	24,100	26,040	1,940	8.03	730			
17-1000	Architects, Surveyors, and Cartographers	1,560	1,780	220	14.08	60			
17-1011	Architects, Except Landscape and Naval	260	310	50	19.01	10	26.46	CB	5
17-1012	Landscape Architects	90	110	20	24.14	0	20.42	DA	5
17-1021	Cartographers and Photogrammetrists	50	70	20	33.96	0	20.6	DA	5
17-1022	Surveyors	1,140	1,270	130	10.94	50	13.84	BB	5
17-2000	Engineers	12,050	12,620	580	4.77	310			
17-2011	Aerospace Engineers	950	1,070	120	12.82	40	27.76	BB	5
17-2031	Biomedical Engineers	120	160	40	31.67	10	35.04	DA	5
17-2041	Chemical Engineers	340	360	20	6.12	10	35.6	CC	5
17-2051	Civil Engineers	1,270	1,390	120	9.46	30	25.13	BB	5
17-2061	Computer Hardware Engineers	320	380	60	17.34	10	31.23	CB	5
17-2071	Electrical Engineers	1,080	1,190	120	10.69	30	26.35	BB	5
17-2072	Electronics Engineers, Except Computer	1,990	1,960	-30	-1.66	40	28.07	AD	5
17-2081	Environmental Engineers	270	350	80	29.00	10	25.68	CA	5
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	360	400	30	9.07	10	25.31	CB	5
17-2112	Industrial Engineers	1,570	1,550	-20	-1.15	30	27.45	BD	5
17-2131	Materials Engineers	230	250	20	6.47	10	24.52	CB	5
17-2141	Mechanical Engineers	1,860	2,020	160	8.66	70	28.01	AB	5
17-2151	Mining and Geological Engineers, Including Mining Safety Engineers	120	100	-20	-16.53	0	36.44	DD	5
17-2171	Petroleum Engineers	770	650	-120	-15.14	20	38.87	BD	5
17-2199	Engineers, All Other	730	720	-10	-1.50	20	29.86	BD	5
17-3000	Drafters, Engineering, and Mapping Technicians	10,490	11,640	1,140	10.87	360			
17-3011	Architectural and Civil Drafters	640	770	130	20.03	30	17.68	BB	7
17-3012	Electrical and Electronics Drafters	690	880	190	26.95	40	16.83	BA	7
17-3013	Mechanical Drafters	1,140	1,300	160	13.88	50	17.56	BB	7
17-3021	Aerospace Engineering and Operations Technicians	350	380	30	7.67	10	20.91	CB	6
17-3022	Civil Engineering Technicians	370	440	80	20.33	20	17.9	CB	6
17-3023	Electrical and Electronic Engineering Technicians	2,490	2,550	60	2.25	60	19.89	AC	6
17-3024	Electro-Mechanical Technicians	280	310	30	9.51	10	22.28	CB	6
17-3025	Environmental Engineering Technicians	220	280	60	27.85	10	14	CA	6
17-3026	Industrial Engineering Technicians	820	850	30	3.28	20	17.83	BC	6
17-3027	Mechanical Engineering Technicians	1,750	1,950	210	11.78	60	16.35	BB	6
17-3029	Engineering Technicians, Except Drafters, All Other	510	460	-50	-9.82	10	*	CD	6
17-3031	Surveying and Mapping Technicians	510	620	120	22.88	30	17.62	CA	10

SOC Code	Occupational Title	Employment		Employment Change, 2000-2010		Avg. Annual Openings	2000 Average Hourly Wage	Descriptor	Education Attainment
		2000	2010	Jobs	Percent				
17-3099	Drafters, Engineering, and Mapping Technicians, All Other (OES Only)	720	840	120	16.99	30	18.84	BB	6
19-0000	Life, Physical, and Social Science Occupations	12,610	14,380	1,770	14.01	550	22.33		
19-1000	Life Scientists	1,420	1,600	180	12.80	60	23.65		
19-1010	Agricultural and Food Scientists	100	110	0	1.94	0	24.14	DC	5
19-1012	Food Scientists and Technologists	100	80	-10	-11.58	0	*	DD	5
19-1022	Microbiologists	60	80	20	28.81	0	*	DA	2
19-1023	Zoologists and Wildlife Biologists	90	100	10	7.95	0	*	DB	2
19-1031	Conservation Scientists	290	300	10	2.77	10	20.99	CC	5
19-1032	Foresters	70	70	0	4.29	0	13.95	DC	5
19-1042	Medical Scientists, Except Epidemiologists	320	430	110	33.65	20	*	CA	2
19-1099	Life Scientists, All Other	350	380	40	10.98	20	23.26	CB	5
19-2000	Physical Scientists	2,290	2,500	210	9.35	100	34.75		
19-2021	Atmospheric and Space Scientists	150	150	0	2.67	10	32.37	DC	5
19-2031	Chemists	650	800	150	23.08	40	29.08	BA	5
19-2032	Materials Scientists	100	100	0	1.02	0	35.48	DC	5
19-2041	Environmental Scientists and Specialists, Including Health	410	490	90	20.94	20	18.46	CB	5
19-2042	Geoscientists, Except Hydrologists and Geographers	770	740	-30	-4.41	30	37.15	BD	5
19-2043	Hydrologists	90	90	10	5.81	0	25.24	DC	5
19-2099	Physical Scientists, All Other	100	100	0	1.96	10	24.6	DC	5
19-3000	Social Scientists and Related Workers	3,210	3,920	710	22.06	150	18.15		
19-3011	Economists	90	100	10	7.95	0	36.05	DB	5
19-3021	Market Research Analysts	910	1,110	200	21.47	40	19.78	BB	5
19-3022	Survey Researchers	200	330	130	64.04	20	15.59	CA	5
19-3031	Clinical, Counseling, and School Psychologists	1,430	1,750	320	22.04	70	*	BB	3
19-3041	Sociologists	80	90	10	11.25	0	*	DB	3
19-3051	Urban and Regional Planners	150	180	30	20.55	10	22.06	DB	3
19-3099	Social Scientists and Related Workers, All Other	230	240	10	4.29	10	22.14	CC	3
19-4000	Life, Physical, and Social Science Technicians	5,690	6,350	660	11.65	240			
19-4011	Agricultural and Food Science Technicians	270	310	40	14.13	10	12.92	CB	6
19-4021	Biological Technicians	550	650	100	18.55	20	13.21	CB	6
19-4031	Chemical Technicians	590	630	40	6.79	20	18.15	CB	6
19-4041	Geological and Petroleum Technicians	980	1,040	60	6.53	30	16.97	BB	6
19-4091	Environmental Science and Protection Technicians, Including Health	550	610	70	12.11	30	13.26	CB	6
19-4092	Forensic Science Technicians	120	120	10	5.98	10	13.88	DC	6
19-4093	Forest and Conservation Technicians	190	200	0	1.56	10	14.46	DC	6
19-4099	Life, Physical, and Social Science Technicians, All Other	2,420	2,750	330	13.71	120	14.69	AB	6
21-0000	Community and Social Services Occupations	26,030	32,150	6,120	23.52	1,070			
21-1000	Counselors, Social Workers, and Other Community and Social Service Specialists	17,420	21,640	4,220	24.23	700			
21-1011	Substance Abuse and Behavioral Disorder Counselors	690	880	190	27.31	30	10.01	BA	3
21-1012	Educational, Vocational, and School Counselors	3,130	3,990	870	27.64	150	16.16	AA	3
21-1013	Marriage and Family Therapists	220	300	70	32.59	10	17.05	CA	3
21-1014	Mental Health Counselors	990	1,200	210	21.36	40	12.49	BB	3
21-1015	Rehabilitation Counselors	2,700	3,440	740	27.48	130	8.6	AA	3

SOC Code	Occupational Title	Employment		Employment Change, 2000-2010		Avg. Annual Openings	2000 Average Hourly Wage	Descriptor	Education Attainment
		2000	2010	Jobs	Percent				
21-1021	Child, Family, and School Social Workers	4,260	4,680	420	9.89	90	12.42	AB	5
21-1022	Medical and Public Health Social Workers	860	1,160	300	34.89	40	14.75	BA	5
21-1023	Mental Health and Substance Abuse Social Workers	720	980	260	35.64	30	12.53	BA	3
21-1091	Health Educators	660	840	180	27.08	30	12.92	BA	3
21-1092	Probation Officers and Correctional Treatment Specialists	740	890	150	20.81	30	13.03	BB	5
21-1093	Social and Human Service Assistants	2,460	3,290	830	33.84	120	9.44	AA	10
21-2000	Religious Workers	5,250	6,610	1,360	26.00	260			
21-2011	Clergy	3,040	3,820	780	25.65	160	15.61	AA	3
21-2021	Directors, Religious Activities and Education	2,210	2,790	590	26.48	100	17.25	AA	5
21-9000	Miscellaneous Counselors, Social, & Religious Workers	3,360	3,890	540	15.96	110			
21-9099	Counselors, Social, and Religious Workers, All Other (OES Only)	3,360	3,890	540	15.96	110	13.74	AB	5
23-0000	Legal Occupations	11,520	12,910	1,390	12.08	240			
23-1000	Lawyers, Judges, and Related Workers	7,710	8,650	930	12.09	160			
23-1011	Lawyers	7,090	8,040	950	13.36	140	43.87	AB	1
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	130	130	0	-2.33	0	30.7	DD	4
23-1023	Judges, Magistrate Judges, and Magistrates	460	440	-20	-4.15	10	28.93	CD	4
23-2000	Legal Support Workers	3,650	4,060	410	11.14	70			
23-2011	Paralegals and Legal Assistants	1,210	1,530	320	26.41	40	17.74	BA	6
23-2091	Court Reporters	310	320	20	5.19	0	18.74	CC	7
23-2092	Law Clerks	400	450	60	13.82	10	11.58	CB	5
23-2093	Title Examiners, Abstractors, and Searchers	1,200	1,280	80	6.50	20	15.59	BB	10
23-2099	Legal Support Workers, All Other	540	480	-60	-11.34	10	*	CD	5
23-9000	Miscellaneous Legal & Related Workers	150	200	50	33.33	10			
23-9099	Legal and Related Workers, All Other (OES Only)	150	200	50	33.33	10	18.25	DA	5
25-0000	Education, Training, and Library Occupations	98,220	119,460	21,240	21.63	4,270			
25-1000	Postsecondary Teachers	16,010	19,760	3,750	23.45	810	19.13		2
25-1011	Business Teachers, Postsecondary	980	1,210	230	23.90	50	*	BA	2
25-1021	Computer Science Teachers, Postsecondary	260	320	60	23.85	10	*	CA	2
25-1022	Mathematical Science Teachers, Postsecondary	630	770	140	22.68	30	*	BA	2
25-1032	Engineering Teachers, Postsecondary	350	430	80	22.38	20	*	CA	2
25-1041	Agricultural Sciences Teachers, Postsecondary	100	130	20	22.33	10	*	DB	2
25-1042	Biological Science Teachers, Postsecondary	500	610	110	22.80	30	*	CA	2
25-1052	Chemistry Teachers, Postsecondary	180	220	40	23.03	10	*	DA	2
25-1053	Environmental Science Teachers, Postsecondary	50	70	10	22.64	0	*	DA	2
25-1054	Physics Teachers, Postsecondary	170	210	40	22.75	10	*	DA	2
25-1061	Anthropology and Archeology Teachers, Postsecondary	90	110	20	23.08	10	*	DA	2
25-1063	Economics Teachers, Postsecondary	110	130	20	22.43	10	*	DA	2
25-1065	Political Science Teachers, Postsecondary	140	170	30	23.02	10	*	DA	2
25-1066	Psychology Teachers, Postsecondary	370	440	70	20.00	20	*	CB	2

SOC Code	Occupational Title	Employment		Employment Change, 2000-2010		Avg. Annual Openings	2000 Average Hourly Wage	Descriptor	Education Attainment
		2000	2010	Jobs	Percent				
25-1067	Sociology Teachers, Postsecondary	200	240	40	22.56	10	*	DA	2
25-1071	Health Specialties Teachers, Postsecondary	1,760	2,170	410	23.11	90	*	BA	2
25-1072	Nursing Instructors and Teachers, Postsecondary	500	620	120	23.65	30	*	CA	3
25-1081	Education Teachers, Postsecondary	740	910	170	22.57	40	*	BA	2
25-1082	Library Science Teachers, Postsecondary	60	70	10	21.31	0	*	DB	2
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	80	100	20	22.50	0	*	DA	2
25-1112	Law Teachers, Postsecondary	150	180	30	22.60	10	*	DA	2
25-1113	Social Work Teachers, Postsecondary	60	70	10	21.67	0	*	DB	2
25-1121	Art, Drama, and Music Teachers, Postsecondary	760	930	170	22.79	40	*	BA	2
25-1122	Communications Teachers, Postsecondary	280	340	60	22.86	10	*	CA	2
25-1123	English Language and Literature Teachers, Postsecondary	650	800	160	24.46	30	*	BA	2
25-1124	Foreign Language and Literature Teachers, Postsecondary	270	340	70	27.14	20	*	CA	2
25-1125	History Teachers, Postsecondary	260	320	60	22.69	10	*	CA	2
25-1126	Philosophy and Religion Teachers, Postsecondary	230	280	50	22.37	10	*	CA	2
25-1191	Graduate Teaching Assistants	980	1,200	230	22.98	50	*	BA	5
25-1192	Home Economics Teachers, Postsecondary	70	80	20	24.62	0	*	DA	2
25-1193	Recreation and Fitness Studies Teachers, Postsecondary	260	320	60	22.81	10	*	CA	3
25-1194	Vocational Education Teachers, Postsecondary	3,100	3,890	780	25.19	160	*	AA	8
25-1199	Postsecondary Teachers, All Other	1,500	1,840	340	22.93	80	*	BA	2
25-2000	Primary, Secondary, and Special Education School Teachers	54,420	65,430	11,020	20.25	2,330			
25-2011	Preschool Teachers, Except Special Education	5,810	6,720	900	15.51	160	8.55	AB	5
25-2012	Kindergarten Teachers, Except Special Education	2,520	3,030	510	20.32	80	*	AB	5
25-2021	Elementary School Teachers, Except Special Education	18,850	22,280	3,430	18.22	770	*	AB	5
25-2022	Middle School Teachers, Except Special and Vocational Education	7,550	8,640	1,090	14.41	280	*	AB	5
25-2023	Vocational Education Teachers, Middle School	360	420	60	15.83	10	*	CB	5
25-2031	Secondary School Teachers, Except Special and Vocational Education	13,460	16,670	3,210	23.86	730	*	AA	5
25-2032	Vocational Education Teachers, Secondary School	1,700	2,000	300	17.91	80	*	BB	5
25-2041	Special Education Teachers, Preschool, Kindergarten, and Elementary School	2,170	3,090	930	42.65	120	*	AA	5
25-2042	Special Education Teachers, Middle School	770	1,000	230	29.86	30	*	BA	5
25-2043	Special Education Teachers, Secondary School	1,240	1,600	360	28.89	50	*	BA	5
25-3000	Other Teachers and Instructors	10,160	12,620	2,460	24.20	350			
25-3011	Adult Literacy, Remedial Education, and GED Teachers and Instructors	1,020	1,260	240	23.85	40	13.84	BA	5
25-3021	Self-Enrichment Education Teachers	2,350	2,920	570	24.25	80	14.99	AA	8

SOC Code	Occupational Title	Employment		Employment Change, 2000-2010		Avg. Annual Openings	2000 Average Hourly Wage	Descriptor	Education Attainment
		2000	2010	Jobs	Percent				
25-3099	Teachers and Instructors, All Other	90	80	-10	-10.99	0	*	DD	5
25-3999	Teachers, Primary, Secondary, and Adult, All Other (OES Only)	6,700	8,360	1,660	24.72	230	*	AA	5
25-4000	Librarians, Curators, and Archivists	3,420	3,880	460	13.33	150			
25-4010	Archivists, Curators, and Museum Technicians	120	140	20	16.81	10	14.02	DB	3
25-4021	Librarians	2,070	2,240	170	8.05	60	16.22	AB	3
25-4031	Library Technicians	1,230	1,500	270	21.92	80	8.39	BB	11
25-9000	Other Education, Training, and Library Occupations	14,220	17,770	3,560	25.01	640			
25-9011	Audio-Visual Collections Specialists	60	70	10	15.87	0	14.53	DB	10
25-9021	Farm and Home Management Advisors	450	460	10	2.00	10	14.87	CC	5
25-9031	Instructional Coordinators	1,120	1,430	310	27.34	50	19.16	BA	3
25-9041	Teacher Assistants	11,730	14,840	3,110	26.50	560	*	AA	11
25-9199	Library, Museum, Training, and Other Education Workers, All Other (OES Only)	850	970	120	14.54	30	16.66	BB	5
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations	20,380	24,730	4,350	21.35	830			
27-1000	Art and Design Workers	5,090	6,000	910	17.94	160			
27-1011	Art Directors	320	390	80	23.90	10	20	CA	4
27-1013	Fine Artists, Including Painters, Sculptors, and Illustrators	100	100	0	-0.99	0	18.11	DD	9
27-1014	Multi-Media Artists and Animators	520	590	70	14.12	20	13.87	CB	5
27-1021	Commercial and Industrial Designers	370	440	70	20.22	10	18.73	CB	5
27-1022	Fashion Designers	70	80	10	13.64	0	12.59	DB	5
27-1023	Floral Designers	1,120	1,310	190	17.22	30	8.72	BB	10
27-1024	Graphic Designers	1,400	1,750	360	25.55	50	14.08	BA	5
27-1025	Interior Designers	190	210	20	9.79	0	15.84	DB	5
27-1026	Merchandise Displayers and Window Trimmers	640	700	70	10.53	10	12.15	BB	10
27-1099	Art and Design Workers, All Other (OES Only)	320	370	50	15.46	10	12.36	CB	5
27-2000	Entertainers and Performers, Sports and Related Workers	5,670	6,960	1,280	22.63	240			
27-2011	Actors	610	670	50	8.48	20	*	CB	9
27-2012	Producers and Directors	550	700	140	25.99	30	*	CA	4
27-2021	Athletes and Sports Competitors	80	90	20	22.37	0	*	DA	9
27-2022	Coaches and Scouts	1,020	1,150	140	13.30	30	*	BB	9
27-2023	Umpires, Referees, and Other Sports Officials	90	100	10	12.94	0	*	DB	9
27-2032	Choreographers	130	130	0	2.40	0	11.58	DC	8
27-2041	Music Directors and Composers	830	1,050	220	26.23	40	*	BA	4
27-2042	Musicians and Singers	2,190	2,840	650	29.47	110	*	AA	9
27-2099	Entertainers and Performers, Sports and Related Workers, All Other	150	210	50	35.06	10	*	DA	9
27-3000	Media and Communication Workers	7,030	8,720	1,690	24.01	330			
27-3010	Announcers	1,010	1,050	40	3.46	20	7.93	BC	9
27-3020	News Analysts, Reporters and Correspondents	860	930	70	7.89	40	16.47	BB	9
27-3031	Public Relations Specialists	1,830	2,670	840	46.01	120	14.44	BA	5
27-3041	Editors	1,080	1,320	240	22.05	60	13.06	BB	5
27-3042	Technical Writers	660	840	180	27.81	40	18.12	BA	5
27-3043	Writers and Authors	980	1,210	230	23.90	40	17.53	BA	5
27-3091	Interpreters and Translators	360	390	40	10.08	10	11.34	CB	9
27-3099	Media and Communication Workers, All Other	250	300	50	20.97	10	16.96	CB	9
27-4000	Media and Communication Equipment Workers	2,590	3,060	470	18.04	110			

SOC Code	Occupational Title	Employment		Employment Change, 2000-2010		Avg. Annual Openings	2000 Average Hourly Wage	Descriptor	Education Attainment
		2000	2010	Jobs	Percent				
27-4011	Audio and Video Equipment Technicians	300	340	40	12.25	10	11.17	CB	9
27-4012	Broadcast Technicians	230	270	40	16.59	10	13.32	CB	7
27-4014	Sound Engineering Technicians	110	130	20	15.04	10	14.85	DB	7
27-4021	Photographers	1,370	1,640	270	19.69	50	10.29	BB	9
27-4031	Camera Operators, Television, Video, and Motion Picture	250	300	60	22.67	10	11.18	CA	10
27-4032	Film and Video Editors	90	110	30	30.59	0	16.26	DA	5
27-4099	Media and Communication Equipment Workers, All Other	220	240	20	7.59	10	18.77	CB	10
29-0000	Healthcare Practitioners and Technical Occupations	69,680	86,040	16,370	23.49	3,180			
29-1000	Health Diagnosing and Treating Practitioners	38,350	47,320	8,970	23.38	1,700			
29-1011	Chiropractors	230	270	40	19.47	10	55.19	CB	1
29-1020	Dentists	2,040	2,060	20	0.78	50	51.51	AC	1
29-1031	Dietitians and Nutritionists	550	660	100	18.81	30	15.77	CB	5
29-1041	Optometrists	450	530	80	17.33	20	44.99	CB	1
29-1051	Pharmacists	2,770	3,520	750	27.10	160	29.41	AA	1
29-1061	Anesthesiologists	320	370	50	16.25	10	*	CB	1
29-1062	Family and General Practitioners	2,570	2,910	340	13.03	70	*	AB	1
29-1063	Internists, General	490	630	140	28.46	20	*	CA	1
29-1064	Obstetricians and Gynecologists	60	70	10	13.11	0	*	DB	1
29-1065	Pediatricians, General	170	200	20	13.95	10	*	DB	1
29-1066	Psychiatrists	180	220	40	22.35	10	*	DB	1
29-1067	Surgeons	1,140	1,330	180	16.00	40	*	BB	1
29-1071	Physician Assistants	1,200	1,780	580	48.17	80	18.83	BA	5
29-1111	Registered Nurses	20,490	25,380	4,890	23.85	900	19.36	AA	6
29-1121	Audiologists	90	130	40	46.51	10	20.87	DA	3
29-1122	Occupational Therapists	710	950	240	32.91	40	23.51	BA	5
29-1123	Physical Therapists	1,470	1,910	440	29.65	80	27.78	BA	3
29-1124	Radiation Therapists	150	160	10	8.72	0	19.77	DB	6
29-1125	Recreational Therapists	310	340	30	10.10	10	14.46	CB	5
29-1126	Respiratory Therapists	930	1,320	390	42.27	60	14.26	BA	6
29-1127	Speech-Language Pathologists	980	1,340	360	36.85	60	19.79	BA	3
29-1131	Veterinarians	660	770	110	16.26	20	21.31	BB	1
29-1199	Health Diagnosing and Treating Practitioners, All Other	380	480	110	28.72	20	35.77	CA	1
29-2000	Health Technologists and Technicians	29,500	36,590	7,090	24.04	1,430			
29-2011	Medical and Clinical Laboratory Technologists	1,760	1,990	230	13.32	70	17.35	BB	5
29-2012	Medical and Clinical Laboratory Technicians	1,370	1,600	240	17.35	60	12.04	BB	6
29-2021	Dental Hygienists	1,160	1,510	350	30.36	50	22.89	BA	6
29-2031	Cardiovascular Technologists and Technicians	390	520	130	32.40	20	13.48	CA	6
29-2032	Diagnostic Medical Sonographers	320	370	60	17.46	10	22.29	CB	6
29-2033	Nuclear Medicine Technologists	170	190	30	15.57	10	21.66	DB	6
29-2034	Radiologic Technologists and Technicians	1,690	1,960	270	15.94	60	15.64	BB	6
29-2041	Emergency Medical Technicians and Paramedics	2,460	3,260	790	32.21	140	9.42	AA	7
29-2051	Dietetic Technicians	610	760	150	24.88	30	7.63	CA	10
29-2052	Pharmacy Technicians	2,180	3,000	820	37.43	140	9.06	AA	10
29-2053	Psychiatric Technicians	560	660	100	17.97	30	12.08	CB	7
29-2054	Respiratory Therapy Technicians	360	480	120	34.17	20	14.08	CA	7
29-2055	Surgical Technologists	1,050	1,430	380	35.96	70	12.72	BA	7
29-2056	Veterinary Technologists and Technicians	580	730	150	26.26	30	9.76	CA	6
29-2061	Licensed Practical and Licensed Vocational Nurses	12,430	14,740	2,310	18.58	550	12.08	AB	7
29-2071	Medical Records and Health Information Technicians	1,910	2,820	900	47.23	130	10.24	AA	6

SOC Code	Occupational Title	Employment		Employment Change, 2000-2010		Avg. Annual Openings	2000 Average Hourly Wage	Descriptor	Education Attainment
		2000	2010	Jobs	Percent				
29-2081	Opticians, Dispensing	490	560	60	12.78	20	11.45	CB	9
29-9000	Other Healthcare Practitioners and Technical Occupations	1,820	2,130	310	17.06	50			
29-9010	Occupational Health and Safety Specialists and Technicians	460	520	50	11.64	20	24.52	CB	5
29-9091	Athletic Trainers	100	100	0	0.00	0	*	DD	5
29-9099	Healthcare Practitioners and Technical Workers, All Other	100	90	-10	-9.47	0	*	DD	6
29-9199	Health Professionals and Technicians, All Other (OES Only)	1,170	1,440	270	22.75	30	13.23	BA	6
31-0000	Healthcare Support Occupations	41,990	54,640	12,660	30.14	1,960			
31-1000	Nursing, Psychiatric, and Home Health Aides	29,230	37,470	8,240	28.17	1,200			
31-1011	Home Health Aides	5,970	8,740	2,780	46.50	350	7.91	AA	11
31-1012	Nursing Aides, Orderlies, and Attendants	22,490	27,810	5,320	23.67	820	7.43	AA	11
31-1013	Psychiatric Aides	780	920	140	17.61	20	8.2	BB	11
31-2000	Occupational and Physical Therapist Assistants and Aides	1,710	2,320	610	35.58	110			
31-2011	Occupational Therapist Assistants	320	440	120	37.30	20	16.37	CA	6
31-2012	Occupational Therapist Aides	170	270	100	58.24	20	7.63	DA	11
31-2021	Physical Therapist Assistants	630	830	200	31.60	40	15.22	BA	6
31-2022	Physical Therapist Aides	590	780	190	32.37	40	8.4	CA	11
31-9000	Other Healthcare Support Occupations	11,050	14,860	3,810	34.51	650			
31-9011	Massage Therapists	70	100	30	37.84	10	6.61	DA	7
31-9091	Dental Assistants	3,010	3,890	880	29.34	140	11.13	AA	10
31-9092	Medical Assistants	3,570	5,400	1,830	51.36	280	9.38	AA	10
31-9093	Medical Equipment Preparers	320	360	40	13.52	10	9.05	CB	11
31-9094	Medical Transcriptionists	1,260	1,570	310	24.27	60	11.24	BA	7
31-9095	Pharmacy Aides	700	850	140	20.45	30	7.73	BB	11
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	660	820	160	23.75	30	7.18	BA	11
31-9099	Healthcare Support Workers, All Other	1,460	1,880	420	28.92	80	8.51	BA	11
33-0000	Protective Service Occupations	31,950	39,330	7,380	23.10	1,600			
33-1000	First-Line Supervisors/Managers, Protective Service Workers	2,400	2,830	440	18.25	110			
33-1011	First-Line Supervisors/Managers of Correctional Officers	520	690	170	32.18	30	14.73	CA	8
33-1012	First-Line Supervisors/Managers of Police and Detectives	780	880	100	13.13	30	17.98	BB	8
33-1021	First-Line Supervisors/Managers of Fire Fighting and Prevention Workers	700	750	50	7.16	30	18.8	BB	8
33-1099	First-Line Supervisors/Managers, Protective Service Workers, All Other	400	520	120	29.43	20	12.49	CA	8
33-2000	Fire Fighting and Prevention Workers	4,020	4,350	340	8.34	140	13.84		
33-2011	Fire Fighters	3,810	4,130	320	8.32	130	15.26	AB	9
33-2021	Fire Inspectors and Investigators	100	120	20	14.85	0	*	DB	8
33-2022	Forest Fire Inspectors and Prevention Specialists	110	110	0	2.83	0	*	DC	8
33-3000	Law Enforcement Workers	14,110	17,400	3,290	23.34	640			
33-3011	Bailiffs	2,140	2,220	90	4.03	60	13.39	AC	10
33-3012	Correctional Officers and Jailers	3,390	4,760	1,380	40.62	220	10.71	AA	10
33-3021	Detectives and Criminal Investigators	1,200	1,360	160	13.52	40	20.59	BB	8
33-3031	Fish and Game Wardens	130	140	10	6.15	0	11.67	DC	9
33-3041	Parking Enforcement Workers	90	100	10	14.61	0	12.05	DB	11
33-3051	Police and Sheriff's Patrol Officers	7,160	8,810	1,650	23.04	320	14.47	AA	9
33-9000	Other Protective Service Workers	11,430	14,740	3,320	29.02	710			
33-9011	Animal Control Workers	200	230	30	15.66	20	10.55	CB	10

SOC Code	Occupational Title	Employment		Employment Change, 2000-2010		Avg. Annual Openings	2000 Average Hourly Wage	Descriptor	Education Attainment
		2000	2010	Jobs	Percent				
33-9021	Private Detectives and Investigators	610	620	10	1.48	20	10.97	CC	8
33-9031	Gaming Surveillance Officers and Gaming Investigators	70	80	10	15.94	0	10.54	DB	10
33-9032	Security Guards	9,100	12,060	2,960	32.52	540	9.23	AA	11
33-9091	Crossing Guards	380	400	30	7.16	20	9.84	CB	11
33-9099	Protective Service Workers, All Other	1,080	1,360	280	25.95	110	7.76	BA	11
35-0000	Food Preparation and Serving Related Occupations	118,840	140,070	21,230	17.86	7,490			
35-1000	Supervisors, Food Preparation and Serving Workers	8,210	9,290	1,090	13.22	320			
35-1011	Chefs and Head Cooks	1,510	1,660	140	9.52	60	10.38	BB	7
35-1012	First-Line Supervisors/Managers of Food Preparation and Serving Workers	6,700	7,640	940	14.06	260	9.19	AB	8
35-2000	Cooks and Food Preparation Workers	36,600	40,650	4,040	11.05	1,510			
35-2011	Cooks, Fast Food	9,280	9,330	50	0.56	270	6.77	AC	11
35-2012	Cooks, Institution and Cafeteria	9,560	10,270	710	7.37	340	7.12	AB	9
35-2014	Cooks, Restaurant	6,630	8,230	1,610	24.29	350	7.35	AA	9
35-2015	Cooks, Short Order	4,710	5,320	610	12.92	200	6.8	AB	11
35-2021	Food Preparation Workers	6,430	7,500	1,070	16.61	360	6.72	AB	11
35-3000	Food and Beverage Serving Workers	63,020	79,310	16,280	25.84	5,290			
35-3011	Bartenders	5,340	6,090	750	14.13	290	6.9	AB	11
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	28,630	38,640	10,010	34.97	2,750	6.44	AA	11
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	4,730	5,430	710	14.96	440	6.3	AB	11
35-3031	Waiters and Waitresses	21,420	25,960	4,540	21.20	1,660	6.3	AB	11
35-3041	Food Servers, Nonrestaurant	2,910	3,180	270	9.27	160	6.39	AB	11
35-9000	Other Food Preparation and Serving Related Workers	11,010	10,820	-180	-1.67	380			
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	3,040	2,820	-220	-7.11	100	6.27	AD	11
35-9021	Dishwashers	5,030	4,620	-410	-8.05	190	6.23	AD	11
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	2,650	3,090	440	16.77	120	6.63	AB	11
35-9099	Food Preparation and Serving Related Workers, All Other	290	290	-10	-2.39	10	7.78	CD	11
37-0000	Building and Grounds Cleaning and Maintenance Occupations	49,830	59,300	9,470	19.01	1,960			
37-1000	Supervisors, Building and Grounds Cleaning and Maintenance Workers	3,390	3,870	470	13.97	110			
37-1011	First-Line Supervisors/Managers of Housekeeping and Janitorial Workers	2,180	2,480	300	13.77	90	10.88	AB	8
37-1012	First-Line Supervisors/Managers of Landscaping, Lawn Service, and Groundskeeping Workers	1,210	1,390	170	14.34	20	11.57	BB	8
37-2000	Building Cleaning and Pest Control Workers	36,600	43,290	6,690	18.28	1,370			
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	24,530	28,880	4,340	17.71	880	7.58	AB	11
37-2012	Maids and Housekeeping Cleaners	11,870	14,170	2,300	19.35	490	6.74	AB	11
37-2021	Pest Control Workers	190	240	50	25.77	10	10.22	DA	10
37-3000	Grounds Maintenance Workers	8,740	10,700	1,960	22.41	420			
37-3011	Landscaping and Groundskeeping Workers	7,870	9,750	1,880	23.87	390	8.15	AA	11
37-3012	Pesticide Handlers, Sprayers, and Applicators, Vegetation	160	170	10	8.97	10	8.1	DB	10

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		2000	2010	Jobs	Percent				
37-3013	Tree Trimmers and Pruners	720	780	70	9.22	30	9.62	BB	11
37-9000	Miscellaneous Building & Grounds Cleaning & Maintenance Workers	1,100	1,450	350	32.00	60			
37-9099	Building and Grounds Cleaning and Maintenance Workers, All Other (OES Only)	1,100	1,450	350	32.00	60	9.25	BA	11
39-0000	Personal Care and Service Occupations	33,620	43,080	9,460	28.14	1,860			
39-1000	Supervisors, Personal Care and Service Workers	1,440	1,710	270	18.52	70			
39-1011	Gaming Supervisors	150	190	40	26.53	10	9.67	DA	7
39-1012	Slot Key Persons	120	150	30	26.09	10	7.82	DA	7
39-1021	First-Line Supervisors/Managers of Personal Service Workers	1,180	1,380	200	16.78	50	11.76	BB	8
39-2000	Animal Care and Service Workers	1,790	2,130	340	19.10	70			
39-2011	Animal Trainers	150	190	40	26.17	10	11.93	DA	10
39-2021	Nonfarm Animal Caretakers	1,640	1,940	300	18.46	70	7.93	BB	11
39-3000	Entertainment Attendants and Related Workers	3,050	3,640	590	19.36	190	9.11		
39-3011	Gaming Dealers	70	90	20	35.82	10	6.41	DA	7
39-3012	Gaming and Sports Book Writers and Runners	380	450	70	18.54	20	7.1	CB	7
39-3021	Motion Picture Projectionists	80	60	-20	-29.11	0	6.97	DD	11
39-3031	Ushers, Lobby Attendants, and Ticket Takers	550	620	70	12.70	50	6.1	CB	11
39-3091	Amusement and Recreation Attendants	1,290	1,560	270	20.63	70	6.97	BB	11
39-3093	Locker Room, Coatroom, and Dressing Room Attendants	230	270	40	18.22	10	*	CB	8
39-3199	Gaming Workers, All Other (OES Only)	400	510	120	29.37	30	6.82	CA	10
39-4000	Funeral Service Workers	640	740	100	15.58	30			
39-4011	Embalmers	190	190	0	-0.53	0	10.06	DD	7
39-4021	Funeral Attendants	460	560	100	22.20	20	7.41	CB	11
39-5000	Personal Appearance Workers	4,840	5,500	650	13.51	190			
39-5011	Barbers	960	980	20	1.77	30	8.93	BC	7
39-5012	Hairdressers, Hairstylists, and Cosmetologists	3,690	4,290	600	16.17	150	8.85	AB	7
39-5092	Manicurists and Pedicurists	70	90	20	23.29	0	7.72	DA	7
39-5094	Skin Care Specialists	70	90	10	19.44	0	9.04	DB	7
39-6000	Transportation, Tourism, and Lodging Attendants	2,560	2,890	340	13.11	120	12.19		
39-6011	Baggage Porters and Bellhops	320	340	20	5.33	10	6.07	CC	11
39-6012	Concierges	80	100	30	33.33	10	7.92	DA	8
39-6021	Tour Guides and Escorts	100	100	0	1.04	0	*	DC	10
39-6022	Travel Guides	220	290	70	33.33	10	*	CA	9
39-6031	Flight Attendants	1,780	1,990	220	12.11	80	*	BB	9
39-6032	Transportation Attendants, Except Flight Attendants and Baggage Porters	70	80	0	5.56	0	8.08	DC	11
39-9000	Other Personal Care and Service Workers	19,310	26,480	7,180	37.16	1,200	6.63		
39-9011	Child Care Workers	8,150	10,990	2,840	34.86	560	6.52	AA	11
39-9021	Personal and Home Care Aides	4,800	7,430	2,630	54.70	340	6.72	AA	11
39-9031	Fitness Trainers and Aerobics Instructors	2,000	2,730	730	36.20	110	9.94	AA	7
39-9032	Recreation Workers	3,000	3,660	660	21.94	130	7.74	AB	5
39-9041	Residential Advisors	470	560	90	19.74	20	8.56	CB	10
39-9099	Personal Care and Service Workers, All Other	890	1,120	230	26.19	40	*	BA	10
41-0000	Sales and Related Occupations	169,770	194,500	24,730	14.57	7,930			
41-1000	Supervisors, Sales Workers	26,040	29,070	3,030	11.64	680			
41-1011	First-Line Supervisors/Managers of Retail Sales Workers	22,680	25,320	2,640	11.62	590	12.8	AB	8
41-1012	First-Line Supervisors/Managers of Non-Retail Sales Workers	3,360	3,760	390	11.72	90	18.37	AB	8

SOC Code	Occupational Title	Employment		Employment Change, 2000-2010		Avg. Annual Openings	2000 Average Hourly Wage	Descriptor	Education Attainment
		2000	2010	Jobs	Percent				
41-2000	Retail Sales Workers	97,360	111,530	14,170	14.55	5,420			
41-2011	Cashiers	40,370	45,260	4,890	12.10	2,320	6.53	AB	11
41-2012	Gaming Change Persons and Booth Cashiers	590	800	210	35.76	50	7.05	CA	11
41-2021	Counter and Rental Clerks	4,860	6,110	1,250	25.74	350	7.79	AA	11
41-2022	Parts Salespersons	4,010	3,910	-100	-2.42	120	9.97	AD	10
41-2031	Retail Salespersons	47,530	55,450	7,920	16.66	2,600	9.18	AB	11
41-3000	Sales Representatives, Services	9,870	11,600	1,730	17.53	390			
41-3011	Advertising Sales Agents	1,350	1,750	410	30.07	70	16.03	BA	10
41-3021	Insurance Sales Agents	5,500	6,100	600	10.98	200	16.81	AB	5
41-3031	Securities, Commodities, and Financial Services Sales Agents	1,750	2,290	540	30.80	70	29.75	BA	5
41-3041	Travel Agents	1,270	1,450	180	14.32	50	10.67	BB	7
41-4000	Sales Representatives, Wholesale and Manufacturing	16,730	17,870	1,140	6.82	570			
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	3,610	3,980	370	10.21	140	24.77	AB	10
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	13,110	13,890	770	5.89	430	18.73	AC	10
41-9000	Other Sales and Related Workers	19,770	24,430	4,660	23.57	880			
41-9011	Demonstrators and Product Promoters	670	880	210	30.70	40	11.65	BA	10
41-9021	Real Estate Brokers	1,410	1,670	260	18.50	50	39.05	BB	8
41-9022	Real Estate Sales Agents	3,630	4,010	390	10.73	100	16.62	AB	7
41-9031	Sales Engineers	510	560	50	10.18	20	24.01	CB	5
41-9041	Telemarketers	8,510	11,230	2,720	31.92	450	7.51	AA	11
41-9091	Door-To-Door Sales Workers, News and Street Vendors, and Related Workers	630	600	-30	-3.99	20	17.24	BD	11
41-9099	Sales and Related Workers, All Other	4,410	5,460	1,060	23.98	200	15.53	AA	10
43-0000	Office and Administrative Support Occupations	271,260	296,930	25,670	9.46	8,270			
43-1000	Supervisors, Office and Administrative Support Workers	15,440	17,030	1,590	10.29	460			
43-1011	First-Line Supervisors/Managers of Office and Administrative Support Workers	15,440	17,030	1,590	10.29	460	16.73	AB	8
43-2000	Communications Equipment Operators	2,850	2,250	-600	-20.95	90			
43-2011	Switchboard Operators, Including Answering Service	2,420	1,970	-450	-18.51	70	9.17	AD	11
43-2021	Telephone Operators	330	210	-120	-36.25	10	13.5	CD	11
43-2099	Communications Equipment Operators, All Other	100	70	-30	-29.13	0	12.06	DD	11
43-3000	Financial Clerks	44,750	47,560	2,810	6.27	1,440			
43-3011	Bill and Account Collectors	4,560	5,840	1,270	27.89	240	11.68	AA	11
43-3021	Billing and Posting Clerks and Machine Operators	6,310	6,820	520	8.18	210	10.41	AB	11
43-3031	Bookkeeping, Accounting, and Auditing Clerks	22,420	23,370	940	4.21	520	11.18	AC	10
43-3041	Gaming Cage Workers	110	130	20	16.67	10	7.28	DB	11
43-3051	Payroll and Timekeeping Clerks	2,820	2,940	120	4.11	90	11.53	AC	11
43-3061	Procurement Clerks	1,390	1,150	-250	-17.66	30	13.06	BD	11
43-3071	Tellers	7,140	7,330	190	2.62	360	8.37	AC	11
43-4000	Information and Record Clerks	58,580	70,890	12,310	21.01	2,270			
43-4011	Brokerage Clerks	250	260	10	4.00	0	11.81	CC	10
43-4021	Correspondence Clerks	620	700	80	13.20	30	10.16	BB	11
43-4031	Court, Municipal, and License Clerks	1,260	1,440	180	14.18	40	10.5	BB	11
43-4041	Credit Authorizers, Checkers, and Clerks	1,250	1,440	190	15.36	30	10.89	BB	11

SOC Code	Occupational Title	Employment		Employment Change, 2000-2010		Avg. Annual Openings	2000 Average Hourly Wage	Descriptor	Education Attainment
		2000	2010	Jobs	Percent				
43-4051	Customer Service Representatives	23,000	31,460	8,460	36.80	1,040	11.19	AA	10
43-4061	Eligibility Interviewers, Government Programs	1,120	960	-160	-14.03	30	11.75	BD	10
43-4071	File Clerks	3,640	3,780	140	3.82	130	8.74	AC	11
43-4081	Hotel, Motel, and Resort Desk Clerks	1,990	2,510	520	25.98	140	6.98	AA	11
43-4111	Interviewers, Except Eligibility and Loan	1,260	1,640	380	29.82	60	8.95	BA	11
43-4121	Library Assistants, Clerical	1,310	1,570	260	19.66	80	8.36	BB	11
43-4131	Loan Interviewers and Clerks	1,690	1,370	-320	-18.93	10	11.38	BD	11
43-4141	New Accounts Clerks	880	1,050	170	19.70	40	10.04	BB	8
43-4151	Order Clerks	2,970	2,340	-630	-21.19	60	10.65	AD	11
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	1,690	2,010	330	19.53	70	11.81	BB	11
43-4171	Receptionists and Information Clerks	12,270	14,590	2,310	18.85	500	8.89	AB	11
43-4181	Reservation and Transportation Ticket Agents and Travel Clerks	1,840	1,970	130	7.01	60	10.86	AB	11
43-4199	Information and Record Clerks, All Other	110	100	-10	-7.96	0	*	DD	11
43-4999	Financial, Information, and Record Clerks, All Other (OES Only)	1,430	1,690	260	18.12	50	12.72	BB	11
43-5000	Material Recording, Scheduling, Dispatching, and Distributing Workers	44,620	47,470	2,850	6.39	1,500			
43-5011	Cargo and Freight Agents	570	580	20	3.18	10	12.84	CC	10
43-5021	Couriers and Messengers	890	860	-30	-3.58	20	8.55	BD	11
43-5031	Police, Fire, and Ambulance Dispatchers	1,710	1,940	240	14.02	50	8.97	BB	10
43-5032	Dispatchers, Except Police, Fire, and Ambulance	2,620	3,160	540	20.60	100	12.61	AB	10
43-5041	Meter Readers, Utilities	1,020	720	-300	-28.98	30	10.32	BD	11
43-5051	Postal Service Clerks	620	630	0	0.48	10	18.69	BC	11
43-5052	Postal Service Mail Carriers	4,170	4,190	10	0.34	130	17.44	AC	11
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	1,670	1,560	-110	-6.75	40	14.12	BD	11
43-5061	Production, Planning, and Expediting Clerks	3,590	4,020	430	11.83	100	15.62	AB	11
43-5071	Shipping, Receiving, and Traffic Clerks	8,350	9,030	690	8.21	240	10.02	AB	11
43-5081	Stock Clerks and Order Fillers	18,040	19,160	1,120	6.23	750	9.06	AC	11
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	1,170	1,420	250	21.25	50	10.93	BB	11
43-5199	Material Recording, Scheduling, Dispatching, and Distributing Workers, All Other (OES Only)	200	200	-10	-2.46	10	12.34	CD	11
43-6000	Secretaries and Administrative Assistants	48,080	49,920	1,840	3.82	1,000			
43-6011	Executive Secretaries and Administrative Assistants	14,900	16,250	1,350	9.05	390	12.65	AB	10
43-6012	Legal Secretaries	2,060	2,310	250	12.24	60	13.5	AB	7
43-6013	Medical Secretaries	3,230	3,820	590	18.17	110	9.64	AB	7
43-6014	Secretaries, Except Legal, Medical, and Executive	27,890	27,540	-350	-1.25	470	9.78	AD	10
43-9000	Other Office and Administrative Support Workers	56,950	61,820	4,880	8.56	1,580			
43-9011	Computer Operators	2,260	1,940	-320	-14.13	40	10.98	AD	10
43-9021	Data Entry Keyers	4,190	4,330	140	3.44	80	9.4	AC	10
43-9022	Word Processors and Typists	1,690	1,300	-390	-23.27	30	9.68	BD	10
43-9031	Desktop Publishers	190	310	120	65.78	20	11.44	DA	7
43-9041	Insurance Claims and Policy Processing Clerks	2,410	2,020	-400	-16.42	40	13.53	AD	10
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	1,960	2,100	140	7.08	70	8.84	AB	11

SOC Code	Occupational Title	Employment		Employment Change, 2000-2010		Avg. Annual Openings	2000 Average Hourly Wage	Descriptor	Education Attainment
		2000	2010	Jobs	Percent				
43-9061	Office Clerks, General	37,110	42,710	5,600	15.10	1,270	9.07	AB	11
43-9071	Office Machine Operators, Except Computer	1,140	1,020	-130	-10.94	40	9.86	BD	11
43-9081	Proofreaders and Copy Markers	250	260	20	6.45	10	10.36	CB	11
43-9111	Statistical Assistants	90	100	10	11.36	0	11.02	DB	10
43-9199	Office and Administrative Support Workers, All Other	2,270	2,060	-210	-9.14	40	*	AD	11
43-9999	Secretaries, Administrative Assistants, and Other Office Support Workers, All Other (OES Only)	3,390	3,670	280	8.29	80	12.75	AB	11
45-0000	Farming, Fishing, and Forestry Occupations	4,170	4,640	470	11.35	160			
45-1000	Supervisors, Farming, Fishing, and Forestry Workers	400	470	80	18.84	10			
45-1011	First-Line Supervisors/Managers of Farming, Fishing, and Forestry Workers	250	310	50	20.47	10	15.6	CB	10
45-1012	Farm Labor Contractors	140	170	20	15.97	0	9.02	DB	10
45-2000	Agricultural Workers	2,600	2,840	230	8.91	100			
45-2011	Agricultural Inspectors	300	300	0	0.00	10	11.97	CD	8
45-2041	Graders and Sorters, Agricultural Products	280	280	0	0.00	10	8.82	CD	8
45-2091	Agricultural Equipment Operators	100	110	20	16.49	10	8.38	DB	10
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	710	790	90	12.02	30	7.2	BB	9
45-2093	Farmworkers, Farm and Ranch Animals	1,170	1,300	120	10.56	50	7.14	BB	10
45-4000	Forest, Conservation, and Logging Workers	950	1,090	140	14.42	30			
45-4011	Forest and Conservation Workers	140	170	40	25.36	10	6.41	DA	10
45-4022	Logging Equipment Operators	760	860	100	13.74	30	13.25	BB	10
45-9000	Other Farming, Fishing, and Forestry Workers	220	250	30	13.43	10			
45-9099	Farming, Fishing, and Forestry Workers, All Other (OES Only)	220	250	30	13.43	10	9.31	CB	11
47-0000	Construction and Extraction Occupations	85,300	96,970	11,680	13.69	2,950			
47-1000	Supervisors, Construction and Extraction Workers	9,120	10,210	1,090	11.95	320			
47-1011	First-Line Supervisors/Managers of Construction Trades and Extraction Workers	9,120	10,210	1,090	11.95	320	19.75	AB	8
47-2000	Construction Trades Workers	53,960	63,430	9,470	17.55	1,810			
47-2011	Boilermakers	360	390	30	7.50	10	10.51	CB	9
47-2021	Brickmasons and Blockmasons	580	670	90	15.60	20	16.81	CB	9
47-2031	Carpenters	7,880	8,930	1,050	13.26	240	11.97	AB	9
47-2041	Carpet Installers	210	240	30	11.74	10	12.71	CB	10
47-2042	Floor Layers, Except Carpet, Wood, and Hard Tiles	360	450	80	22.93	10	14.86	CA	10
47-2043	Floor Sanders and Finishers	170	210	40	22.22	10	13.93	DB	10
47-2044	Tile and Marble Setters	250	350	90	36.76	10	14.22	CA	9
47-2051	Cement Masons and Concrete Finishers	2,470	2,570	100	3.84	30	11.57	AC	9
47-2061	Construction Laborers	9,970	12,500	2,530	25.32	340	9.99	AA	10
47-2071	Paving, Surfacing, and Tamping Equipment Operators	1,100	1,230	130	12.23	40	11.07	BB	10
47-2072	Pile-Driver Operators	80	90	0	3.61	0	14.84	DC	10
47-2073	Operating Engineers and Other Construction Equipment Operators	3,230	3,390	160	4.86	90	12.22	AC	10
47-2081	Drywall and Ceiling Tile Installers	1,500	1,710	210	14.28	40	13.35	BB	10
47-2082	Tapers	250	280	40	14.06	10	14.6	CB	10
47-2111	Electricians	6,510	7,880	1,370	21.11	260	16.89	AB	9
47-2121	Glaziers	560	650	90	15.59	20	11.67	CB	9
47-2130	Insulation Workers	970	1,160	190	19.75	50	13.07	BB	10

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		2000	2010	Jobs	Percent				
47-2141	Painters, Construction and Maintenance	4,840	6,020	1,180	24.41	200	12.24	AA	10
47-2142	Paperhangers	110	130	20	16.36	0	13.25	DB	10
47-2151	Pipelayers	860	930	70	7.89	20	11.31	BB	10
47-2152	Plumbers, Pipefitters, and Steamfitters	5,140	6,000	860	16.73	170	16.81	AB	9
47-2161	Plasterers and Stucco Masons	270	340	70	24.72	10	15.09	CA	9
47-2171	Reinforcing Iron and Rebar Workers	230	260	30	12.99	10	17.28	CB	9
47-2181	Roofers	1,250	1,610	360	28.92	60	13.13	BA	10
47-2211	Sheet Metal Workers	3,420	3,800	380	11.06	110	15.96	AB	10
47-2221	Structural Iron and Steel Workers	1,310	1,600	280	21.39	40	13.26	BB	9
47-3000	Helpers, Construction Trades	4,680	5,470	790	16.77	310			
47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	320	380	60	19.24	20	10.24	CB	11
47-3012	Helpers--Carpenters	800	840	40	4.49	40	8.47	BC	11
47-3013	Helpers--Electricians	1,630	1,930	310	18.75	110	10.18	BB	11
47-3014	Helpers--Painters, Paperhangers, Plasterers, and Stucco Masons	300	350	50	15.61	20	8.01	CB	11
47-3015	Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters	940	1,100	160	17.15	60	10.09	BB	11
47-3016	Helpers--Roofers	310	390	80	25.96	20	10.78	CA	11
47-3019	Helpers, Construction Trades, All Other	380	480	90	24.48	30	9.09	CA	11
47-4000	Other Construction and Related Workers	8,100	9,230	1,130	13.92	260	14.12		
47-4011	Construction and Building Inspectors	1,620	1,880	250	15.67	60	16.08	BB	8
47-4021	Elevator Installers and Repairers	250	290	50	19.03	10	20.56	CB	9
47-4031	Fence Erectors	250	290	40	13.89	10	10.9	CB	10
47-4041	Hazardous Materials Removal Workers	340	470	130	36.63	20	12.48	CA	10
47-4051	Highway Maintenance Workers	4,650	5,190	530	11.43	120	9.42	AB	10
47-4061	Rail-Track Laying and Maintenance Equipment Operators	90	60	-20	-28.24	0	12.28	DD	10
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	230	270	30	13.68	10	13.79	CB	10
47-4999	Construction Trades and Related Workers, All Other (OES Only)	640	760	120	19.00	20	*	BB	8
47-5000	Extraction Workers	9,440	8,640	-800	-8.47	330			
47-5011	Derrick Operators, Oil and Gas	1,900	1,850	-50	-2.84	70	11.36	AD	10
47-5012	Rotary Drill Operators, Oil and Gas	1,150	990	-170	-14.64	40	13.58	BD	10
47-5013	Service Unit Operators, Oil, Gas, and Mining	810	760	-60	-6.89	30	15.96	BD	10
47-5021	Earth Drillers, Except Oil and Gas	650	750	100	15.14	20	11.29	BB	10
47-5031	Explosives Workers, Ordnance Handling Experts, and Blasters	210	200	-10	-5.61	10	14.83	CD	10
47-5051	Rock Splitters, Quarry	50	50	0	1.89	0	*	DC	10
47-5071	Roustabouts, Oil and Gas	2,780	2,370	-410	-14.75	100	10.75	AD	10
47-5081	Helpers--Extraction Workers	1,190	1,080	-110	-9.36	50	11.37	BD	11
47-5099	Extraction Workers, All Other	600	510	-90	-14.41	20	*	CD	10
49-0000	Installation, Maintenance, and Repair Occupations	78,220	87,540	9,320	11.92	2,670			
49-1000	Supervisors of Installation, Maintenance, and Repair Workers	5,230	6,140	910	17.38	230			
49-1011	First-Line Supervisors/Managers of Mechanics, Installers, and Repairers	5,230	6,140	910	17.38	230	20.83	AB	8
49-2000	Electrical and Electronic Equipment Mechanics, Installers, and Repairers	12,350	13,090	740	5.99	290			
49-2011	Computer, Automated Teller, and Office Machine Repairers	2,990	3,680	690	23.19	100	11.68	AA	7

SOC Code	Occupational Title	Employment		Employment Change, 2000-2010		Avg. Annual Openings	2000 Average Hourly Wage	Descriptor	Education Attainment
		2000	2010	Jobs	Percent				
49-2021	Radio Mechanics	60	30	-30	-43.86	0	15.59	DD	7
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	4,300	4,340	50	1.12	90	21.13	AC	7
49-2091	Avionics Technicians	820	770	-50	-6.00	20	16.14	BD	7
49-2092	Electric Motor, Power Tool, and Related Repairers	580	570	-10	-1.39	10	15.78	CD	7
49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipment	140	150	10	8.03	0	17.4	DB	7
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	1,640	1,670	30	2.02	40	15.09	BC	7
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	380	390	10	1.58	10	21.29	CC	7
49-2096	Electronic Equipment Installers and Repairers, Motor Vehicles	310	340	40	12.46	10	14.63	CB	7
49-2097	Electronic Home Entertainment Equipment Installers and Repairers	770	650	-120	-15.49	10	12.56	BD	7
49-2098	Security and Fire Alarm Systems Installers	230	290	60	26.99	10	12.56	CA	7
49-2099	Electrical and Electronic Equipment Mechanics, Installers, and Repairers, All Other (OES Only)	170	220	50	30.91	10	13.04	DA	7
49-3000	Vehicle and Mobile Equipment Mechanics, Installers	26,850	30,380	3,530	13.15	1,020			
49-3011	Aircraft Mechanics and Service Technicians	3,540	3,900	360	10.05	110	16.3	AB	7
49-3012	Aircraft Mechanics and Service Technicians, FAA Certified	2,480	2,240	-240	-9.66	50	*	AD	7
49-3021	Automotive Body and Related Repairers	2,520	2,870	340	13.65	100	13.86	AB	9
49-3022	Automotive Glass Installers and Repairers	200	230	30	16.16	10	12.13	CB	9
49-3023	Automotive Service Technicians and Mechanics	9,610	11,580	1,970	20.52	420	11.99	AB	7
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	3,390	3,890	500	14.73	140	14.01	AB	7
49-3041	Farm Equipment Mechanics	590	610	20	3.20	20	11.12	CC	7
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	1,140	1,290	150	13.47	50	14.35	BB	7
49-3051	Motorboat Mechanics	250	290	40	14.96	10	10.91	CB	9
49-3052	Motorcycle Mechanics	160	180	20	13.46	10	12.2	DB	9
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	1,150	1,310	160	13.65	50	11.24	BB	10
49-3092	Recreational Vehicle Service Technicians	160	220	50	31.10	10	12.05	DA	9
49-3093	Tire Repairers and Changers	1,420	1,530	110	7.96	70	8.53	BB	11
49-3099	Vehicle and Mobile Equipment Mechanics, Installers, and Repairers, All Other (OES Only)	170	190	20	14.20	10	16.71	DB	10
49-9000	Other Installation, Maintenance, and Repair Occupations	33,790	37,920	4,140	12.25	1,140	16.51		
49-9011	Mechanical Door Repairers	250	290	40	16.53	10	12.81	CB	10
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	1,200	1,220	20	1.50	40	16.8	BC	10
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	2,120	2,720	610	28.64	80	14.32	AA	9
49-9031	Home Appliance Repairers	500	550	50	10.22	20	14.18	CB	9
49-9041	Industrial Machinery Mechanics	2,960	3,350	390	13.23	120	14.6	AB	9
49-9042	Maintenance and Repair Workers, General	13,150	13,960	810	6.19	250	11.82	AC	9

SOC Code	Occupational Title	Employment		Employment Change, 2000-2010		Avg. Annual Openings	2000 Average Hourly Wage	Descriptor	Education Attainment
		2000	2010	Jobs	Percent				
49-9043	Maintenance Workers, Machinery	2,160	2,320	160	7.40	70	14.28	AB	9
49-9044	Millwrights	730	820	80	11.46	30	16.39	BB	9
49-9045	Refractory Materials Repairers, Except Brickmasons	70	80	0	4.17	0	*	DC	9
49-9051	Electrical Power-Line Installers and Repairers	1,280	1,340	60	4.84	50	18.58	BC	9
49-9052	Telecommunications Line Installers and Repairers	3,250	4,290	1,040	31.96	170	17.24	AA	9
49-9061	Camera and Photographic Equipment Repairers	70	60	-10	-10.14	0	20.38	DD	10
49-9062	Medical Equipment Repairers	280	310	30	12.19	10	17.8	CB	10
49-9064	Watch Repairers	60	70	10	9.52	0	9.94	DB	9
49-9069	Precision Instrument and Equipment Repairers, All Other	230	270	50	20.89	10	18.28	CB	9
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	300	320	30	8.45	10	15.11	CB	10
49-9093	Fabric Menders, Except Garment	80	80	0	-1.27	0	*	DD	10
49-9094	Locksmiths and Safe Repairers	210	220	10	4.35	10	12.81	CC	10
49-9095	Manufactured Building and Mobile Home Installers	560	740	180	31.79	30	12.69	CA	10
49-9096	Riggers	190	250	60	33.86	10	19.75	DA	11
49-9098	Helpers--Installation, Maintenance, and Repair Workers	2,570	3,030	460	17.79	180	10.49	AB	11
49-9099	Installation, Maintenance, and Repair Workers, All Other	1,530	1,580	50	3.21	40	*	BC	9
51-0000	Production Occupations	144,040	155,250	11,210	7.78	4,450			
51-1000	Supervisors, Production Workers	8,370	8,640	270	3.19	250			
51-1011	First-Line Supervisors/Managers of Production and Operating Workers	8,370	8,640	270	3.19	250	18.57	AC	8
51-2000	Assemblers and Fabricators	27,300	29,070	1,780	6.51	690			
51-2011	Aircraft Structure, Surfaces, Rigging, and Systems Assemblers	610	610	0	-0.33	20	15.45	CD	9
51-2021	Coil Winders, Tapers, and Finishers	280	290	10	3.97	10	10.58	CC	11
51-2022	Electrical and Electronic Equipment Assemblers	2,010	1,840	-170	-8.38	50	9.91	AD	11
51-2023	Electromechanical Equipment Assemblers	1,450	1,590	140	9.28	50	10.08	BB	11
51-2031	Engine and Other Machine Assemblers	1,920	2,160	240	12.63	60	10.36	AB	11
51-2041	Structural Metal Fabricators and Fitters	1,850	2,130	280	15.18	60	12	AB	10
51-2091	Fiberglass Laminators and Fabricators	350	360	10	3.75	10	13.98	CC	10
51-2092	Team Assemblers	15,870	17,020	1,150	7.27	390	11.29	AB	10
51-2099	Assemblers and Fabricators, All Other	2,960	3,070	120	3.92	60	11.33	AC	10
51-3000	Food Processing Workers	10,740	11,610	870	8.09	340			
51-3011	Bakers	1,280	1,440	170	13.10	40	8.09	BB	9
51-3021	Butchers and Meat Cutters	1,700	1,430	-270	-15.93	40	10.01	BD	9
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	2,440	2,870	430	17.73	100	9.31	AB	11
51-3023	Slaughterers and Meat Packers	3,450	3,810	370	10.62	120	8.74	AB	10
51-3091	Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders	190	200	20	8.06	10	10.01	DB	11
51-3092	Food Batchmakers	1,030	1,140	110	10.80	40	9.33	BB	11
51-3093	Food Cooking Machine Operators and Tenders	340	430	80	23.84	10	9.32	CA	11
51-3099	Food Processing Workers, All Other (OES Only)	330	300	-30	-10.33	10	9.7	CD	11
51-4000	Metal Workers and Plastic Workers	35,370	38,920	3,550	10.04	1,250			
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	2,100	2,480	380	17.99	110	12.64	AB	9

SOC Code	Occupational Title	Employment		Employment Change, 2000-2010		Avg. Annual Openings	2000 Average Hourly Wage	Descriptor	Education Attainment
		2000	2010	Jobs	Percent				
51-4012	Numerical Tool and Process Control Programmers	270	310	40	14.65	10	14.45	CB	9
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	840	1,040	200	23.51	40	10.99	BA	10
51-4022	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	530	580	50	9.26	20	10.07	CB	10
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	540	670	140	25.28	30	9.73	CA	10
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	3,910	3,710	-190	-4.89	80	10.07	AD	10
51-4032	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	470	450	-20	-4.04	20	11.92	CD	10
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	1,350	1,360	10	0.67	30	10.68	BC	10
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	960	930	-30	-2.92	40	11.96	BD	10
51-4035	Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	370	340	-40	-9.65	10	12.33	CD	10
51-4041	Machinists	6,180	6,610	430	6.92	170	13.81	AB	9
51-4051	Metal-Refining Furnace Operators and Tenders	330	370	40	12.99	10	10.37	CB	10
51-4052	Pourers and Casters, Metal	200	210	20	8.21	10	12.07	DB	10
51-4062	Patternmakers, Metal and Plastic	80	80	-10	-6.02	0	12.19	DD	10
51-4071	Foundry Mold and Coremakers	300	280	-20	-6.44	10	10.31	CD	10
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	720	840	110	15.61	30	9.99	BB	10
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	1,660	1,920	260	15.58	50	12.91	BB	10
51-4111	Tool and Die Makers	800	790	0	-0.25	20	20.57	BD	9
51-4121	Welders, Cutters, Solderers, and Brazers	9,580	11,350	1,770	18.46	450	13.1	AB	7
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	2,070	2,380	310	14.93	90	12.7	AB	10
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	360	390	40	10.11	10	14.08	CB	10
51-4192	Lay-Out Workers, Metal and Plastic	190	190	0	0.00	10	13.93	DD	10
51-4193	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	690	740	50	7.45	20	10.98	BB	10
51-4194	Tool Grinders, Filers, and Sharpeners	410	370	-40	-9.63	10	10.54	CD	10
51-4199	Metal Workers and Plastic Workers, All Other	450	510	60	12.83	20	11.74	CB	10
51-5000	Printing Workers	4,920	5,330	410	8.25	170			
51-5011	Bindery Workers	1,060	1,180	130	12.02	40	8.2	BB	10
51-5021	Job Printers	680	750	70	10.04	20	11.19	BB	9
51-5022	Prepress Technicians and Workers	870	790	-80	-8.99	20	11.66	BD	9
51-5023	Printing Machine Operators	2,200	2,480	280	12.88	80	10.95	AB	10
51-5099	Printing Workers, All Other (OES Only)	110	110	0	3.64	0	11.83	DC	10
51-6000	Textile, Apparel, and Furnishings Workers	11,040	10,790	-240	-2.21	210			

SOC Code	Occupational Title	Employment		Employment Change, 2000-2010		Avg. Annual Openings	2000 Average Hourly Wage	Descriptor	Education Attainment
		2000	2010	Jobs	Percent				
51-6011	Laundry and Dry-Cleaning Workers	3,560	3,850	290	8.11	120	7.04	AB	10
51-6021	Pressers, Textile, Garment, and Related Materials	1,020	1,080	60	5.97	20	6.57	BC	11
51-6031	Sewing Machine Operators	4,240	3,640	-610	-14.33	50	8.13	AD	10
51-6041	Shoe and Leather Workers and Repairers	70	60	-10	-13.51	0	7.03	DD	9
51-6051	Sewers, Hand	240	230	-10	-5.83	10	8.7	CD	11
51-6052	Tailors, Dressmakers, and Custom Sewers	300	240	-60	-18.58	10	9.74	CD	8
51-6062	Textile Cutting Machine Setters, Operators, and Tenders	280	280	0	1.07	10	8.53	CC	10
51-6063	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	60	60	0	-6.78	0	6.86	DD	9
51-6064	Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders	80	90	10	9.64	0	10.72	DB	10
51-6091	Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and Glass Fibers	330	440	110	32.93	20	11.52	CA	10
51-6092	Fabric and Apparel Patternmakers	80	90	0	1.19	0	8.76	DC	9
51-6093	Upholsterers	620	570	-50	-7.31	20	8.57	CD	9
51-6099	Textile, Apparel, and Furnishings Workers, All Other	130	140	10	11.11	0	9.81	DB	10
51-7000	Woodworkers	3,320	3,810	490	14.78	170	14.95		
51-7011	Cabinetmakers and Bench Carpenters	1,910	2,170	270	14.12	90	10.57	AB	9
51-7021	Furniture Finishers	210	230	20	11.00	10	10.41	CB	9
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood	580	690	110	18.59	30	12.49	CB	10
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	510	590	80	14.84	30	10.56	CB	10
51-7099	Woodworkers, All Other	50	60	10	13.46	0	10.2	DB	10
51-8000	Plant and System Operators	5,940	6,220	280	4.63	210			
51-8012	Power Distributors and Dispatchers	360	320	-40	-11.57	10	16.51	CD	9
51-8013	Power Plant Operators	390	400	10	1.28	10	21.75	CC	9
51-8021	Stationary Engineers and Boiler Operators	480	510	30	6.69	20	17.17	CB	9
51-8031	Water and Liquid Waste Treatment Plant and System Operators	1,950	2,360	410	21.04	100	10.9	AB	9
51-8091	Chemical Plant and System Operators	760	760	0	-0.26	20	18.56	BD	9
51-8092	Gas Plant Operators	360	320	-40	-10.67	10	16.23	CD	9
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers	1,400	1,300	-100	-7.22	40	16.95	BD	9
51-8099	Plant and System Operators, All Other	250	260	10	4.40	10	19.7	CC	9
51-9000	Other Production Occupations	37,050	40,860	3,820	10.30	1,210			
51-9011	Chemical Equipment Operators and Tenders	270	370	100	38.01	20	14.66	CA	10
51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	340	380	40	12.39	10	13.71	CB	10
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	530	670	140	25.47	30	9.59	CA	10
51-9022	Grinding and Polishing Workers, Hand	410	460	50	12.35	10	11.44	CB	10
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	1,160	1,370	210	18.19	50	12.83	BB	10
51-9031	Cutters and Trimmers, Hand	230	260	30	12.61	10	10.34	CB	11
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	640	730	90	13.20	20	10.39	BB	10

SOC Code	Occupational Title	Employment		Employment Change, 2000-2010		Avg. Annual Openings	2000 Average Hourly Wage	Descriptor	Education Attainment
		2000	2010	Jobs	Percent				
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	860	990	130	15.65	30	11.44	BB	10
51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	480	520	40	7.28	20	12.72	CB	10
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	7,400	7,400	0	0.03	160	15.58	AC	10
51-9071	Jewelers and Precious Stone and Metal Workers	300	290	0	-0.68	10	13.63	CD	7
51-9081	Dental Laboratory Technicians	320	330	20	5.40	10	12.32	CC	9
51-9082	Medical Appliance Technicians	50	70	10	24.07	0	13.85	DA	9
51-9083	Ophthalmic Laboratory Technicians	840	1,070	230	27.28	50	9.57	BA	10
51-9111	Packaging and Filling Machine Operators and Tenders	3,900	4,650	750	19.16	160	9.01	AB	11
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	1,460	1,670	220	14.78	50	11.91	BB	10
51-9122	Painters, Transportation Equipment	1,010	1,200	190	18.46	40	12.61	BB	10
51-9123	Painting, Coating, and Decorating Workers	470	550	90	19.14	20	10.74	CB	11
51-9131	Photographic Process Workers	380	350	-30	-7.65	10	9.4	CD	10
51-9132	Photographic Processing Machine Operators	780	870	80	10.46	30	7.25	BB	11
51-9191	Cementing and Gluing Machine Operators and Tenders	310	350	40	12.95	10	12.3	CB	10
51-9192	Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders	350	340	-10	-3.72	10	8.83	CD	10
51-9193	Cooling and Freezing Equipment Operators and Tenders	90	100	10	6.74	0	10.56	DB	10
51-9194	Etchers and Engravers	120	140	20	15.38	10	9.53	DB	9
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	330	360	30	7.88	10	10.29	CB	10
51-9196	Paper Goods Machine Setters, Operators, and Tenders	1,050	1,200	140	13.47	40	12.58	BB	10
51-9197	Tire Builders	650	760	110	17.54	20	18.76	BB	10
51-9198	Helpers--Production Workers	7,070	8,220	1,150	16.21	290	8.19	AB	11
51-9199	Production Workers, All Other	5,250	5,210	-40	-0.76	90	20.87	AD	10
53-0000	Transportation and Material Moving Occupations	111,940	127,820	15,880	14.18	4,180			
53-1000	Supervisors, Transportation and Material Moving Workers	4,100	4,670	580	14.09	150			
53-1011	Aircraft Cargo Handling Supervisors	110	150	40	41.12	10	14.19	DA	8
53-1021	First-Line Supervisors/Managers of Helpers, Laborers, and Material Movers, Hand	1,750	2,050	300	17.06	70	15.83	BB	8
53-1031	First-Line Supervisors/Managers of Transportation and Material-Moving Machine and Vehicle Operators	2,240	2,470	230	10.47	70	20.05	AB	8
53-2000	Air Transportation Workers	2,960	3,060	100	3.38	90			
53-2011	Airline Pilots, Copilots, and Flight Engineers	2,260	2,270	10	0.31	50	*	AC	5
53-2012	Commercial Pilots	200	220	20	10.34	10	*	CB	7
53-2021	Air Traffic Controllers	360	410	50	12.43	20	28.91	CB	9
53-2022	Airfield Operations Specialists	100	110	10	14.74	10	21.96	DB	11
53-3000	Motor Vehicle Operators	53,000	61,640	8,650	16.32	1,670			
53-3011	Ambulance Drivers and Attendants, Except Emergency Medical Technicians	120	160	30	26.02	0	6.62	DA	10
53-3021	Bus Drivers, Transit and Intercity	1,210	1,470	260	21.26	60	10.92	BB	10
53-3022	Bus Drivers, School	5,390	5,770	380	7.09	180	7.31	AB	11

SOC Code	Occupational Title	Employment		Employment Change, 2000-2010		Avg. Annual Openings	2000 Average Hourly Wage	Descriptor	Education Attainment
		2000	2010	Jobs	Percent				
53-3031	Driver/Sales Workers	5,370	5,830	460	8.51	120	11.47	AB	11
53-3032	Truck Drivers, Heavy and Tractor-Trailer	25,210	29,910	4,690	18.61	820	14.25	AB	10
53-3033	Truck Drivers, Light or Delivery Services	12,490	14,860	2,380	19.03	410	9.3	AB	11
53-3041	Taxi Drivers and Chauffeurs	1,200	1,420	220	18.20	30	7.44	BB	11
53-3099	Motor Vehicle Operators, All Other	2,010	2,240	230	11.62	60	9.08	AB	11
53-4000	Rail Transportation Workers	850	730	-120	-13.65	40	21.62		
53-4021	Railroad Brake, Signal, and Switch Operators	170	90	-90	-50.29	10	12.16	DD	8
53-4031	Railroad Conductors and Yardmasters	320	260	-60	-18.13	10	21.17	CD	8
53-4099	Rail Transportation Workers, All Other	330	360	30	7.88	20	*	CB	11
53-6000	Other Transportation Workers	2,670	2,960	290	10.93	130			
53-6021	Parking Lot Attendants	670	850	190	27.97	30	7.07	BA	11
53-6031	Service Station Attendants	1,330	1,390	70	4.91	70	7.07	BC	11
53-6041	Traffic Technicians	70	80	10	17.65	0	12.29	DB	11
53-6051	Transportation Inspectors	380	400	20	4.99	10	17.51	CC	8
53-6099	Transportation Workers, All Other	200	220	20	9.31	10	14.47	CB	11
53-7000	Material Moving Workers	48,330	54,700	6,370	13.18	2,120	9.71		
53-7011	Conveyor Operators and Tenders	500	540	40	8.40	20	10.52	CB	11
53-7021	Crane and Tower Operators	590	580	-20	-2.69	20	16.3	CD	10
53-7031	Dredge Operators	80	90	0	3.61	0	*	DC	11
53-7032	Excavating and Loading Machine and Dragline Operators	1,310	1,530	220	16.40	60	11.95	BB	10
53-7033	Loading Machine Operators, Underground Mining	90	90	10	6.82	0	*	DB	11
53-7041	Hoist and Winch Operators	100	120	20	20.79	0	12.98	DB	10
53-7051	Industrial Truck and Tractor Operators	5,270	5,870	590	11.25	130	11.11	AB	11
53-7061	Cleaners of Vehicles and Equipment	4,270	5,100	830	19.35	250	8.06	AB	11
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	22,990	26,100	3,110	13.53	1,080	8.8	AB	11
53-7063	Machine Feeders and Offbearers	910	840	-60	-7.05	30	9.55	BD	11
53-7064	Packers and Packagers, Hand	6,170	6,720	560	9.02	210	7.54	AB	11
53-7071	Gas Compressor and Gas Pumping Station Operators	310	320	0	0.64	10	18.67	CC	10
53-7072	Pump Operators, Except Wellhead Pumpers	560	530	-20	-3.96	20	9.44	CD	10
53-7073	Wellhead Pumpers	960	780	-180	-19.06	30	18.42	BD	10
53-7081	Refuse and Recyclable Material Collectors	2,950	4,000	1,040	35.27	230	7.68	AA	11
53-7121	Tank Car, Truck, and Ship Loaders	200	220	20	11.17	10	10.47	CB	10
53-7199	Material Moving Workers, All Other	1,050	1,270	220	20.49	50	*	BB	11

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Ambulance Drivers and Attendants, Except Emergency Medical Technicians	53-3011	Cardiovascular Technologists and Technicians	29-2031
Amusement and Recreation Attendants	39-3091	Cargo and Freight Agents	43-5011
Anesthesiologists	29-1061	Carpenters	47-2031
Animal Control Workers	33-9011	Carpet Installers	47-2041
Animal Trainers	39-2011	Cartographers and Photogrammetrists	17-1021
Announcers	27-3010	Cashiers	41-2011
Anthropology and Archeology Teachers, Postsecondary	25-1061	Cement Masons and Concrete Finishers	47-2051
Appraisers and Assessors of Real Estate	13-2021	Cementing and Gluing Machine Operators and Tenders	51-9191
Architects, Except Landscape and Naval	17-1011	Chefs and Head Cooks	35-1011
Architectural and Civil Drafters	17-3011	Chemical Engineers	17-2041
Archivists, Curators, and Museum Technicians	25-4010	Chemical Equipment Operators and Tenders	51-9011
Art and Design Workers, All Other (OES Only)	27-1099	Chemical Plant and System Operators	51-8091
Art Directors	27-1011	Chemical Technicians	19-4031
Art, Drama, and Music Teachers, Postsecondary	25-1121	Chemistry Teachers, Postsecondary	25-1052
Assemblers and Fabricators, All Other	51-2099	Chemists	19-2031
Athletes and Sports Competitors	27-2021	Chief Executives	11-1011
Athletic Trainers	29-9091	Child Care Workers	39-9011
Atmospheric and Space Scientists	19-2021	Child, Family, and School Social Workers	21-1021
Audio and Video Equipment Technicians	27-4011	Chiropractors	29-1011
Audiologists	29-1121	Choreographers	27-2032
Audio-Visual Collections Specialists	25-9011	Civil Engineering Technicians	17-3022
Automotive Body and Related Repairers	49-3021	Civil Engineers	17-2051
Automotive Glass Installers and Repairers	49-3022	Claims Adjusters, Examiners, and Investigators	13-1031
Automotive Service Technicians and Mechanics	49-3023	Cleaners of Vehicles and Equipment	53-7061
Avionics Technicians	49-2091	Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders	51-9192
Baggage Porters and Bellhops	39-6011	Clergy	21-2011
Bailiffs	33-3011	Clinical, Counseling, and School Psychologists	19-3031
Bakers	51-3011	Coaches and Scouts	27-2022
Barbers	39-5011	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	51-9121
		Coil Winders, Tapers, and Finishers	51-2021

Occupational Title	SOC Code	Occupational Title	SOC Code
Coin, Vending, and Amusement Machine Servicers and Repairers	49-9091	Dental Hygienists	29-2021
Combined Food Preparation and Serving Workers, Including Fast Food	35-3021	Dental Laboratory Technicians	51-9081
Commercial and Industrial Designers	27-1021	Dentists	29-1020
Commercial Pilots	53-2012	Derrick Operators, Oil and Gas	47-5011
Communications Equipment Operators, All Other	43-2099	Desktop Publishers	43-9031
Communications Teachers, Postsecondary	25-1122	Detectives and Criminal Investigators	33-3021
Compensation, Benefits, and Job Analysis Specialists	13-1072	Diagnostic Medical Sonographers	29-2032
Compliance Officers, Except Agriculture, Construction, Health and Safety, and Transportation	13-1041	Dietetic Technicians	29-2051
Computer and Information Scientists, Research	15-1011	Dietitians and Nutritionists	29-1031
Computer and Information Systems Managers	11-3021	Dining Room and Cafeteria Attendants and Bartender Helpers	35-9011
Computer Hardware Engineers	17-2061	Directors, Religious Activities and Education	21-2021
Computer Operators	43-9011	Dishwashers	35-9021
Computer Programmers	15-1021	Dispatchers, Except Police, Fire, and Ambulance	43-5032
Computer Science Teachers, Postsecondary	25-1021	Door-To-Door Sales Workers, News and Street Vendors, and Related Workers	41-9091
Computer Software Engineers, Applications	15-1031	Drafters, Engineering, and Mapping Technicians, All Other (OES Only)	17-3099
Computer Software Engineers, Systems Software	15-1032	Dredge Operators	53-7031
Computer Specialists, All Other	15-1099	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	51-4032
Computer Support Specialists	15-1041	Driver/Sales Workers	53-3031
Computer Systems Analysts	15-1051	Drywall and Ceiling Tile Installers	47-2081
Computer, Automated Teller, and Office Machine Repairers	49-2011	Earth Drillers, Except Oil and Gas	47-5021
Computer-Controlled Machine Tool Operators, Metal and Plastic	51-4011	Economics Teachers, Postsecondary	25-1063
Concierges	39-6012	Economists	19-3011
Conservation Scientists	19-1031	Editors	27-3041
Construction and Building Inspectors	47-4011	Education Administrators, All Other	11-9039
Construction Laborers	47-2061	Education Administrators, Elementary and Secondary School	11-9032
Construction Managers	11-9021	Education Administrators, Postsecondary	11-9033
Construction Trades and Related Workers, All Other (OES Only)	47-4999	Education Administrators, Preschool and Child Care Center/Program	11-9031
Control and Valve Installers and Repairers, Except Mechanical Door	49-9012	Education Teachers, Postsecondary	25-1081
Conveyor Operators and Tenders	53-7011	Educational, Vocational, and School Counselors	21-1012
Cooks, Fast Food	35-2011	Electric Motor, Power Tool, and Related Repairers	49-2092
Cooks, Institution and Cafeteria	35-2012	Electrical and Electronic Engineering Technicians	17-3023
Cooks, Restaurant	35-2014	Electrical and Electronic Equipment Assemblers	51-2022
Cooks, Short Order	35-2015	Electrical and Electronic Equipment Mechanics, Installers, and Repairers, All Other (OES Only)	49-2099
Cooling and Freezing Equipment Operators and Tenders	51-9193	Electrical and Electronics Drafters	17-3012
Correctional Officers and Jailers	33-3012	Electrical and Electronics Installers and Repairers, Transportation Equipment	49-2093
Correspondence Clerks	43-4021	Electrical and Electronics Repairers, Commercial and Industrial Equipment	49-2094
Cost Estimators	13-1051	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	49-2095
Counselors, Social, and Religious Workers, All Other (OES Only)	21-9099	Electrical Engineers	17-2071
Counter and Rental Clerks	41-2021	Electrical Power-Line Installers and Repairers	49-9051
Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	35-3022	Electricians	47-2111
Couriers and Messengers	43-5021	Electromechanical Equipment Assemblers	51-2023
Court Reporters	23-2091	Electro-Mechanical Technicians	17-3024
Court, Municipal, and License Clerks	43-4031	Electronic Equipment Installers and Repairers, Motor Vehicles	49-2096
Crane and Tower Operators	53-7021	Electronic Home Entertainment Equipment Installers and Repairers	49-2097
Credit Analysts	13-2041	Electronics Engineers, Except Computer	17-2072
Credit Authorizers, Checkers, and Clerks	43-4041	Elementary School Teachers, Except Special Education	25-2021
Criminal Justice and Law Enforcement Teachers, Postsecondary	25-1111	Elevator Installers and Repairers	47-4021
Crossing Guards	33-9091	Eligibility Interviewers, Government Programs	43-4061
Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	51-9021	Embalmers	39-4011
Customer Service Representatives	43-4051	Emergency Management Specialists	13-1061
Cutters and Trimmers, Hand	51-9031	Emergency Medical Technicians and Paramedics	29-2041
Cutting and Slicing Machine Setters, Operators, and Tenders	51-9032	Employment, Recruitment, and Placement Specialists	13-1071
Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	51-4031	Engine and Other Machine Assemblers	51-2031
Data Entry Keyers	43-9021	Engineering Managers	11-9041
Database Administrators	15-1061	Engineering Teachers, Postsecondary	25-1032
Demonstrators and Product Promoters	41-9011	Engineering Technicians, Except Drafters, All Other	17-3029
Dental Assistants	31-9091	Engineers, All Other	17-2199

Occupational Title	SOC Code	Occupational Title	SOC Code
English Language and Literature Teachers, Postsecondary	25-1123	First-Line Supervisors/Managers of Personal Service Workers	39-1021
Entertainers and Performers, Sports and Related Workers, All Other	27-2099	First-Line Supervisors/Managers of Police and Detectives	33-1012
Environmental Engineering Technicians	17-3025	First-Line Supervisors/Managers of Production and Operating Workers	51-1011
Environmental Engineers	17-2081	First-Line Supervisors/Managers of Retail Sales Workers	41-1011
Environmental Science and Protection Technicians, Including Health	19-4091	First-Line Supervisors/Managers of Transportation and Material-Moving Machine and Vehicle Operators	53-1031
Environmental Science Teachers, Postsecondary	25-1053	First-Line Supervisors/Managers, Protective Service Workers, All Other	33-1099
Environmental Scientists and Specialists, Including Health	19-2041	Fish and Game Wardens	33-3031
Etchers and Engravers	51-9194	Fitness Trainers and Aerobics Instructors	39-9031
Excavating and Loading Machine and Dragline Operators	53-7032	Flight Attendants	39-6031
Executive Secretaries and Administrative Assistants	43-6011	Floor Layers, Except Carpet, Wood, and Hard Tiles	47-2042
Explosives Workers, Ordnance Handling Experts, and Blasters	47-5031	Floor Sanders and Finishers	47-2043
Extraction Workers, All Other	47-5099	Floral Designers	27-1023
Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	51-4021	Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders	51-3091
Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and Glass Fibers	51-6091	Food Batchmakers	51-3092
Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	51-9041	Food Cooking Machine Operators and Tenders	51-3093
Fabric and Apparel Patternmakers	51-6092	Food Preparation and Serving Related Workers, All Other	35-9099
Fabric Menders, Except Garment	49-9093	Food Preparation Workers	35-2021
Family and General Practitioners	29-1062	Food Processing Workers, All Other (OES Only)	51-3099
Farm and Home Management Advisors	25-9021	Food Scientists and Technologists	19-1012
Farm Equipment Mechanics	49-3041	Food Servers, Nonrestaurant	35-3041
Farm Labor Contractors	45-1012	Food Service Managers	11-9051
Farm, Ranch, and Other Agricultural Managers	11-9011	Foreign Language and Literature Teachers, Postsecondary	25-1124
Farming, Fishing, and Forestry Workers, All Other (OES Only)	45-9099	Forensic Science Technicians	19-4092
Farmworkers and Laborers, Crop, Nursery, and Greenhouse	45-2092	Forest and Conservation Technicians	19-4093
Farmworkers, Farm and Ranch Animals	45-2093	Forest and Conservation Workers	45-4011
Fashion Designers	27-1022	Forest Fire Inspectors and Prevention Specialists	33-2022
Fence Erectors	47-4031	Foresters	19-1032
Fiberglass Laminators and Fabricators	51-2091	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	51-4022
File Clerks	43-4071	Foundry Mold and Coremakers	51-4071
Film and Video Editors	27-4032	Funeral Attendants	39-4021
Financial Analysts	13-2051	Funeral Directors	11-9061
Financial Examiners	13-2061	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	51-9051
Financial Managers	11-3031	Furniture Finishers	51-7021
Financial Specialists, All Other	13-2099	Gaming and Sports Book Writers and Runners	39-3012
Financial, Information, and Record Clerks, All Other (OES Only)	43-4999	Gaming Cage Workers	43-3041
Fine Artists, Including Painters, Sculptors, and Illustrators	27-1013	Gaming Change Persons and Booth Cashiers	41-2012
Fire Fighters	33-2011	Gaming Dealers	39-3011
Fire Inspectors and Investigators	33-2021	Gaming Supervisors	39-1011
First-Line Supervisors/Managers of Construction Trades and Extraction Workers	47-1011	Gaming Surveillance Officers and Gaming Investigators	33-9031
First-Line Supervisors/Managers of Correctional Officers	33-1011	Gaming Workers, All Other (OES Only)	39-3199
First-Line Supervisors/Managers of Farming, Fishing, and Forestry Workers	45-1011	Gas Compressor and Gas Pumping Station Operators	53-7071
First-Line Supervisors/Managers of Fire Fighting and Prevention Workers	33-1021	Gas Plant Operators	51-8092
First-Line Supervisors/Managers of Food Preparation and Serving Workers	35-1012	General and Operations Managers	11-1021
First-Line Supervisors/Managers of Helpers, Laborers, and Material Movers, Hand	53-1021	Geological and Petroleum Technicians	19-4041
First-Line Supervisors/Managers of Housekeeping and Janitorial Workers	37-1011	Geoscientists, Except Hydrologists and Geographers	19-2042
First-Line Supervisors/Managers of Landscaping, Lawn Service, and Groundskeeping Workers	37-1012	Glaziers	47-2121
First-Line Supervisors/Managers of Mechanics, Installers, and Repairers	49-1011	Graders and Sorters, Agricultural Products	45-2041
First-Line Supervisors/Managers of Non-Retail Sales Workers	41-1012	Graduate Teaching Assistants	25-1191
First-Line Supervisors/Managers of Office and Administrative Support Workers	43-1011	Graphic Designers	27-1024
		Grinding and Polishing Workers, Hand	51-9022
		Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	51-4033
		Hairdressers, Hairstylists, and Cosmetologists	39-5012
		Hazardous Materials Removal Workers	47-4041
		Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	17-2111
		Health Diagnosing and Treating Practitioners, All Other	29-1199
		Health Educators	21-1091
		Health Professionals and Technicians, All Other (OES Only)	29-9199
		Health Specialties Teachers, Postsecondary	25-1071

Occupational Title	SOC Code	Occupational Title	SOC Code
Healthcare Practitioners and Technical Workers, All Other	29-9099	Legislators	11-1031
Healthcare Support Workers, All Other	31-9099	Librarians	25-4021
Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	51-4191	Library Assistants, Clerical	43-4121
Heating, Air Conditioning, and Refrigeration Mechanics and Installers	49-9021	Library Science Teachers, Postsecondary	25-1082
Helpers, Construction Trades, All Other	47-3019	Library Technicians	25-4031
Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	47-3011	Library, Museum, Training, and Other Education Workers, All Other (OES Only)	25-9199
Helpers--Carpenters	47-3012	Licensed Practical and Licensed Vocational Nurses	29-2061
Helpers--Electricians	47-3013	Life Scientists, All Other	19-1099
Helpers--Extraction Workers	47-5081	Life, Physical, and Social Science Technicians, All Other	19-4099
Helpers--Installation, Maintenance, and Repair Workers	49-9098	Loading Machine Operators, Underground Mining	53-7033
Helpers--Painters, Paperhangers, Plasterers, and Stucco Masons	47-3014	Loan Counselors	13-2071
Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters	47-3015	Loan Interviewers and Clerks	43-4131
Helpers--Production Workers	51-9198	Loan Officers	13-2072
Helpers--Roofers	47-3016	Locker Room, Coatroom, and Dressing Room Attendants	39-3093
Highway Maintenance Workers	47-4051	Locksmiths and Safe Repairers	49-9094
History Teachers, Postsecondary	25-1125	Lodging Managers	11-9081
Hoist and Winch Operators	53-7041	Logging Equipment Operators	45-4022
Home Appliance Repairers	49-9031	Machine Feeders and Offbearers	53-7063
Home Economics Teachers, Postsecondary	25-1192	Machinists	51-4041
Home Health Aides	31-1011	Maids and Housekeeping Cleaners	37-2012
Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	35-9031	Mail Clerks and Mail Machine Operators, Except Postal Service	43-9051
Hotel, Motel, and Resort Desk Clerks	43-4081	Maintenance and Repair Workers, General	49-9042
Human Resources Assistants, Except Payroll and Timekeeping	43-4161	Maintenance Workers, Machinery	49-9043
Human Resources Managers	11-3040	Management Analysts	13-1111
Hydrologists	19-2043	Managers, All Other	11-9199
Industrial Engineering Technicians	17-3026	Manicurists and Pedicurists	39-5092
Industrial Engineers	17-2112	Manufactured Building and Mobile Home Installers	49-9095
Industrial Machinery Mechanics	49-9041	Market Research Analysts	19-3021
Industrial Production Managers	11-3051	Marketing Managers	11-2021
Industrial Truck and Tractor Operators	53-7051	Marriage and Family Therapists	21-1013
Information and Record Clerks, All Other	43-4199	Massage Therapists	31-9011
Inspectors, Testers, Sorters, Samplers, and Weighers	51-9061	Material Moving Workers, All Other	53-7199
Installation, Maintenance, and Repair Workers, All Other	49-9099	Material Recording, Scheduling, Dispatching, and Distributing Workers, All Other (OES Only)	43-5199
Instructional Coordinators	25-9031	Materials Engineers	17-2131
Insulation Workers	47-2130	Materials Scientists	19-2032
Insurance Appraisers, Auto Damage	13-1032	Mathematical Science Teachers, Postsecondary	25-1022
Insurance Claims and Policy Processing Clerks	43-9041	Meat, Poultry, and Fish Cutters and Trimmers	51-3022
Insurance Sales Agents	41-3021	Mechanical Door Repairers	49-9011
Insurance Underwriters	13-2053	Mechanical Drafters	17-3013
Interior Designers	27-1025	Mechanical Engineering Technicians	17-3027
Internists, General	29-1063	Mechanical Engineers	17-2141
Interpreters and Translators	27-3091	Media and Communication Equipment Workers, All Other	27-4099
Interviewers, Except Eligibility and Loan	43-4111	Media and Communication Workers, All Other	27-3099
Janitors and Cleaners, Except Maids and Housekeeping Cleaners	37-2011	Medical and Clinical Laboratory Technicians	29-2012
Jewelers and Precious Stone and Metal Workers	51-9071	Medical and Clinical Laboratory Technologists	29-2011
Job Printers	51-5021	Medical and Health Services Managers	11-9111
Judges, Magistrate Judges, and Magistrates	23-1023	Medical and Public Health Social Workers	21-1022
Kindergarten Teachers, Except Special Education	25-2012	Medical Appliance Technicians	51-9082
Laborers and Freight, Stock, and Material Movers, Hand	53-7062	Medical Assistants	31-9092
Landscape Architects	17-1012	Medical Equipment Preparers	31-9093
Landscaping and Groundskeeping Workers	37-3011	Medical Equipment Repairers	49-9062
Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	51-4034	Medical Records and Health Information Technicians	29-2071
Laundry and Dry-Cleaning Workers	51-6011	Medical Scientists, Except Epidemiologists	19-1042
Law Clerks	23-2092	Medical Secretaries	43-6013
Law Teachers, Postsecondary	25-1112	Medical Transcriptionists	31-9094
Lawyers	23-1011	Meeting and Convention Planners	13-1121
Lay-Out Workers, Metal and Plastic	51-4192	Mental Health and Substance Abuse Social Workers	21-1023
Legal and Related Workers, All Other (OES Only)	23-9099	Mental Health Counselors	21-1014
Legal Secretaries	43-6012	Merchandise Displayers and Window Trimmers	27-1026
Legal Support Workers, All Other	23-2099	Metal Workers and Plastic Workers, All Other	51-4199
		Metal-Refining Furnace Operators and Tenders	51-4051
		Meter Readers, Utilities	43-5041
		Microbiologists	19-1022

Occupational Title	SOC Code	Occupational Title	SOC Code
Middle School Teachers, Except Special and Vocational Education	25-2022	Pesticide Handlers, Sprayers, and Applicators, Vegetation	37-3012
Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	51-4035	Petroleum Engineers	17-2171
Millwrights	49-9044	Petroleum Pump System Operators, Refinery Operators, and Gaugers	51-8093
Mining and Geological Engineers, Including Mining Safety Engineers	17-2151	Pharmacists	29-1051
Mixing and Blending Machine Setters, Operators, and Tenders	51-9023	Pharmacy Aides	31-9095
Mobile Heavy Equipment Mechanics, Except Engines	49-3042	Pharmacy Technicians	29-2052
Molders, Shapers, and Casters, Except Metal and Plastic	51-9195	Philosophy and Religion Teachers, Postsecondary	25-1126
Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	51-4072	Photographers	27-4021
Motion Picture Projectionists	39-3021	Photographic Process Workers	51-9131
Motor Vehicle Operators, All Other	53-3099	Photographic Processing Machine Operators	51-9132
Motorboat Mechanics	49-3051	Physical Scientists, All Other	19-2099
Motorcycle Mechanics	49-3052	Physical Therapist Aides	31-2022
Multi-Media Artists and Animators	27-1014	Physical Therapist Assistants	31-2021
Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	51-4081	Physical Therapists	29-1123
Music Directors and Composers	27-2041	Physician Assistants	29-1071
Musicians and Singers	27-2042	Physics Teachers, Postsecondary	25-1054
Natural Sciences Managers	11-9121	Pile-Driver Operators	47-2072
Network and Computer Systems Administrators	15-1071	Pipelayers	47-2151
Network Systems and Data Communications Analysts	15-1081	Plant and System Operators, All Other	51-8099
New Accounts Clerks	43-4141	Plasterers and Stucco Masons	47-2161
News Analysts, Reporters and Correspondents	27-3020	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	51-4193
Nonfarm Animal Caretakers	39-2021	Plumbers, Pipefitters, and Steamfitters	47-2152
Nuclear Medicine Technologists	29-2033	Police and Sheriff's Patrol Officers	33-3051
Numerical Tool and Process Control Programmers	51-4012	Police, Fire, and Ambulance Dispatchers	43-5031
Nursing Aides, Orderlies, and Attendants	31-1012	Political Science Teachers, Postsecondary	25-1065
Nursing Instructors and Teachers, Postsecondary	25-1072	Postal Service Clerks	43-5051
Obstetricians and Gynecologists	29-1064	Postal Service Mail Carriers	43-5052
Occupational Health and Safety Specialists and Technicians	29-9010	Postal Service Mail Sorters, Processors, and Processing Machine Operators	43-5053
Occupational Therapist Aides	31-2012	Postmasters and Mail Superintendents	11-9131
Occupational Therapist Assistants	31-2011	Postsecondary Teachers, All Other	25-1199
Occupational Therapists	29-1122	Pourers and Casters, Metal	51-4052
Office and Administrative Support Workers, All Other	43-9199	Power Distributors and Dispatchers	51-8012
Office Clerks, General	43-9061	Power Plant Operators	51-8013
Office Machine Operators, Except Computer	43-9071	Precision Instrument and Equipment Repairers, All Other	49-9069
Operating Engineers and Other Construction Equipment Operators	47-2073	Prepress Technicians and Workers	51-5022
Operations Research Analysts	15-2031	Preschool Teachers, Except Special Education	25-2011
Ophthalmic Laboratory Technicians	51-9083	Pressers, Textile, Garment, and Related Materials	51-6021
Opticians, Dispensing	29-2081	Printing Machine Operators	51-5023
Optometrists	29-1041	Printing Workers, All Other (OES Only)	51-5099
Order Clerks	43-4151	Private Detectives and Investigators	33-9021
Outdoor Power Equipment and Other Small Engine Mechanics	49-3053	Probation Officers and Correctional Treatment Specialists	21-1092
Packaging and Filling Machine Operators and Tenders	51-9111	Procurement Clerks	43-3061
Packers and Packagers, Hand	53-7064	Producers and Directors	27-2012
Painters, Construction and Maintenance	47-2141	Production Workers, All Other	51-9199
Painters, Transportation Equipment	51-9122	Production, Planning, and Expediting Clerks	43-5061
Painting, Coating, and Decorating Workers	51-9123	Proofreaders and Copy Markers	43-9081
Paper Goods Machine Setters, Operators, and Tenders	51-9196	Property, Real Estate, and Community Association Managers	11-9141
Paperhangers	47-2142	Protective Service Workers, All Other	33-9099
Paralegals and Legal Assistants	23-2011	Psychiatric Aides	31-1013
Parking Enforcement Workers	33-3041	Psychiatric Technicians	29-2053
Parking Lot Attendants	53-6021	Psychiatrists	29-1066
Parts Salespersons	41-2022	Psychology Teachers, Postsecondary	25-1066
Patternmakers, Metal and Plastic	51-4062	Public Relations Managers	11-2031
Paving, Surfacing, and Tamping Equipment Operators	47-2071	Public Relations Specialists	27-3031
Payroll and Timekeeping Clerks	43-3051	Pump Operators, Except Wellhead Pumps	53-7072
Pediatricians, General	29-1065	Purchasing Agents and Buyers, Farm Products	13-1021
Personal and Home Care Aides	39-9021	Purchasing Agents, Except Wholesale, Retail, and Farm Products	13-1023
Personal Care and Service Workers, All Other	39-9099	Purchasing Managers	11-3061
Personal Financial Advisors	13-2052	Radiation Therapists	29-1124
Pest Control Workers	37-2021	Radio Mechanics	49-2021
		Radiologic Technologists and Technicians	29-2034

Occupational Title	SOC Code	Occupational Title	SOC Code
Rail Transportation Workers, All Other	53-4099	Special Education Teachers, Middle School	25-2042
Railroad Brake, Signal, and Switch Operators	53-4021	Special Education Teachers, Preschool, Kindergarten, and Elementary School	25-2041
Railroad Conductors and Yardmasters	53-4031		
Rail-Track Laying and Maintenance Equipment Operators	47-4061	Special Education Teachers, Secondary School	25-2043
Real Estate Brokers	41-9021	Speech-Language Pathologists	29-1127
Real Estate Sales Agents	41-9022	Stationary Engineers and Boiler Operators	51-8021
Receptionists and Information Clerks	43-4171	Statistical Assistants	43-9111
Recreation and Fitness Studies Teachers, Postsecondary	25-1193	Statisticians	15-2041
Recreation Workers	39-9032	Stock Clerks and Order Fillers	43-5081
Recreational Therapists	29-1125	Structural Iron and Steel Workers	47-2221
Recreational Vehicle Service Technicians	49-3092	Structural Metal Fabricators and Fitters	51-2041
Refractory Materials Repairers, Except Brickmasons	49-9045	Substance Abuse and Behavioral Disorder Counselors	21-1011
Refuse and Recyclable Material Collectors	53-7081	Surgeons	29-1067
Registered Nurses	29-1111	Surgical Technologists	29-2055
Rehabilitation Counselors	21-1015	Survey Researchers	19-3022
Reinforcing Iron and Rebar Workers	47-2171	Surveying and Mapping Technicians	17-3031
Reservation and Transportation Ticket Agents and Travel Clerks	43-4181	Surveyors	17-1022
Residential Advisors	39-9041	Switchboard Operators, Including Answering Service	43-2011
Respiratory Therapists	29-1126	Tailors, Dressmakers, and Custom Sewers	51-6052
Respiratory Therapy Technicians	29-2054	Tank Car, Truck, and Ship Loaders	53-7121
Retail Salespersons	41-2031	Tapers	47-2082
Riggers	49-9096	Tax Examiners, Collectors, and Revenue Agents	13-2081
Rock Splitters, Quarry	47-5051	Tax Preparers	13-2082
Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	51-4023	Taxi Drivers and Chauffeurs	53-3041
Roofers	47-2181	Teacher Assistants	25-9041
Rotary Drill Operators, Oil and Gas	47-5012	Teachers and Instructors, All Other	25-3099
Roustabouts, Oil and Gas	47-5071	Teachers, Primary, Secondary, and Adult, All Other (OES Only)	25-3999
Sales and Related Workers, All Other	41-9099	Team Assemblers	51-2092
Sales Engineers	41-9031	Technical Writers	27-3042
Sales Managers	11-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	49-2022
Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	41-4012	Telecommunications Line Installers and Repairers	49-9052
Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	41-4011	Telemarketers	41-9041
Sawing Machine Setters, Operators, and Tenders, Wood	51-7041	Telephone Operators	43-2021
Secondary School Teachers, Except Special and Vocational Education	25-2031	Tellers	43-3071
Secretaries, Administrative Assistants, and Other Office Support Workers, All Other (OES Only)	43-9999	Textile Cutting Machine Setters, Operators, and Tenders	51-6062
Secretaries, Except Legal, Medical, and Executive	43-6014	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	51-6063
Securities, Commodities, and Financial Services Sales Agents	41-3031	Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders	51-6064
Security and Fire Alarm Systems Installers	49-2098	Textile, Apparel, and Furnishings Workers, All Other	51-6099
Security Guards	33-9032	Tile and Marble Setters	47-2044
Self-Enrichment Education Teachers	25-3021	Tire Builders	51-9197
Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	51-9012	Tire Repairers and Changers	49-3093
Septic Tank Servicers and Sewer Pipe Cleaners	47-4071	Title Examiners, Abstractors, and Searchers	23-2093
Service Station Attendants	53-6031	Tool and Die Makers	51-4111
Service Unit Operators, Oil, Gas, and Mining	47-5013	Tool Grinders, Filers, and Sharpeners	51-4194
Sewers, Hand	51-6051	Tour Guides and Escorts	39-6021
Sewing Machine Operators	51-6031	Traffic Technicians	53-6041
Sheet Metal Workers	47-2211	Training and Development Specialists	13-1073
Shipping, Receiving, and Traffic Clerks	43-5071	Transportation Attendants, Except Flight Attendants and Baggage Porters	39-6032
Shoe and Leather Workers and Repairers	51-6041	Transportation Inspectors	53-6051
Skin Care Specialists	39-5094	Transportation Workers, All Other	53-6099
Slaughterers and Meat Packers	51-3023	Transportation, Storage, and Distribution Managers	11-3071
Slot Key Persons	39-1012	Travel Agents	41-3041
Social and Community Service Managers	11-9151	Travel Guides	39-6022
Social and Human Service Assistants	21-1093	Tree Trimmers and Pruners	37-3013
Social Scientists and Related Workers, All Other	19-3099	Truck Drivers, Heavy and Tractor-Trailer	53-3032
Social Work Teachers, Postsecondary	25-1113	Truck Drivers, Light or Delivery Services	53-3033
Sociologists	19-3041	Umpires, Referees, and Other Sports Officials	27-2023
Sociology Teachers, Postsecondary	25-1067	Upholsterers	51-6093
Sound Engineering Technicians	27-4014	Urban and Regional Planners	19-3051
		Ushers, Lobby Attendants, and Ticket Takers	39-3031
		Vehicle and Mobile Equipment Mechanics, Installers, and Repairers, All Other (OES Only)	49-3099
		Veterinarians	29-1131

Occupational Title	SOC Code	Occupational Title	SOC Code
Veterinary Assistants and Laboratory Animal Caretakers	31-9096	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	43-5111
Veterinary Technologists and Technicians	29-2056	Welders, Cutters, Solderers, and Brazers	51-4121
Vocational Education Teachers, Middle School	25-2023	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	51-4122
Vocational Education Teachers, Postsecondary	25-1194	Wellhead Pumpers	53-7073
Vocational Education Teachers, Secondary School	25-2032	Wholesale and Retail Buyers, Except Farm Products	13-1022
Waiters and Waitresses	35-3031	Woodworkers, All Other	51-7099
Watch Repairers	49-9064	Word Processors and Typists	43-9022
Water and Liquid Waste Treatment Plant and System Operators	51-8031	Writers and Authors	27-3043
		Zoologists and Wildlife Biologists	19-1023

17. Occupational Education and Training Categories

Occupations are classified into one of 11 categories listed below according to these principles:

- ❖ An occupation is placed into the category that best describes the education or training needed by most workers to become fully qualified.
- ❖ Post-secondary awards, if generally needed for entry into the occupation, take precedence over work-related training even though additional skills or experience may be needed for a worker to become fully qualified.
- ❖ The length of time an average worker generally needs to become fully qualified through a combination of on-the-job training and experience is used to categorize occupations in which a post-secondary award generally is not needed for entry.

POST-SECONDARY AWARDS

1. **First professional degree.** Completion of the degree usually requires at least three years of full-time academic study beyond a bachelor's degree.
2. **Doctoral degree.** Completion of a Ph.D. or other doctoral degree usually requires at least three years of full-time academic study beyond a bachelor's degree.
3. **Master's degree.** Completion of the degree usually requires one or two years of full-time academic study beyond a bachelor's degree.
4. **Bachelor's or higher degree, plus work experience.** Most occupations in this category are management occupations. All require experience in a related non-management position for which a bachelor's or higher degree is usually required.
5. **Bachelor's degree.** Completion of the degree generally requires at least four years, but not more than five years, of full-time academic study.
6. **Associate degree.** Completion of the degree usually requires at least two years of full-time academic study.
7. **Postsecondary vocational award.** Some programs last only a few weeks while others may last more than a year. Programs lead to a certificate or other award but not a degree.

WORK-RELATED TRAINING

8. **Work experience in a related occupation.** Many occupations requiring work experience are first-line supervisors/managers of service, sales and related, production, or other occupations, or are management occupations.

9. Long-term on-the-job training. More than 12 months of on-the-job training or combined work experience and formal classroom instruction are needed for workers to develop the skills necessary to be fully qualified. This category includes formal and informal apprenticeships that may last up to five years. Long-term on-the-job training also includes intensive occupation-specific, employer-sponsored programs that workers must successfully complete. These include fire and police academies and schools for air traffic controllers and flight attendants. In other occupations—insurance sales and securities sales, for example—trainees take formal courses, often provided on the job site, to prepare for the required licensing exams. Individuals undergoing training are generally considered to be employed in the occupation. Also included in this category is the development of a natural ability—such as that possessed by musicians, athletes, actors, and other entertainers—that must be cultivated over several years, frequently in a non-work setting.

10. Moderate-term on-the-job training. Skills needed to be fully qualified can be acquired during one to 12 months of combined on-the-job experience and informal training.

11. Short-term on-the-job training. Skills needed to be fully qualified can be acquired during a short demonstration of job duties or during one month or less of on-the-job experience or instruction.

18. Technical Notes

1. The information in this publication should be used as one of several sources to aid in decision-making. Any final decision should be based on the user's own analyses and conclusions.
2. Data have not been included for occupations with an estimated employment level of less than 50 people in 2000.
3. Employment estimates and number of openings have been rounded to the nearest 10.
4. Occupational category totals may not calculate exactly as a result of rounding and the suppression of occupations with less than 50 people employed in 2000.
5. The data source for the wage information is *Oklahoma Wage Report 2002* which is available from the Oklahoma Employment Security Commission. Occupations which have workers who generally work less than the usual 2,080 hours per year or do not have sufficient data will not have an average hourly wage reflected and are noted in the data tables with a "*". Occupations that typically have a work-year of less than 2,080 hours include musical and entertainment occupations, pilots and flight attendants, and teachers.
6. Typically, "demand occupations" are those that grow rapidly. However, for most occupations a majority of the job openings arise from the need to replace workers who have changed occupations or have left the occupation as a result of death, disability, retirement, school or child rearing. Of the 64,340 total annual openings, 38,060 (59 percent) will result from replacement needs while 26,280 will be due to labor market growth.
7. The shaded areas in the Occupational Profiles table are the occupational totals and subtotals.
8. Occupational descriptor: The left side four letters of the Descriptor column in the Occupational Profile table are the quartile rankings based on employment size. The occupations in the top and bottom quartiles receive an 'A' and a 'D', while the occupations in the second and third quartiles have a 'B' and a 'C'. The four letters on the right side are the rankings based on growth rate. Declining occupations are labeled with a 'D'. Occupations growing slower than one half of the standard deviation below the mean are ranked a 'C', while those growing faster than one half of the standard deviation above mean receive 'A'. Those that fall in the middle have a 'B' grade. (See the table below.)

	Employment Size (percentile)	Growth Rate			
		Negative	Slow	Moderate	Fast
		$X \leq 0$	$0 < X \leq \text{mean} - 1/2\text{stdev}$	$\text{mean} - 1/2\text{stdev} < X \leq \text{mean} + 1/2\text{stdev}$	$X > \text{mean} + 1/2\text{stdev}$
Small	$X \leq 25$	DD	DC	DB	DA
Medium	$25 < X \leq 50$	CD	CC	CB	CA
Large	$50 < X \leq 75$	BD	BC	BB	BA
Very Large	$X > 75$	AD	AC	AB	AA

9. The Average Annual Openings include openings due to growth and openings due to replacement needs. The Average Annual Openings are not reduced by negative growth. An occupation may experience negative growth in some industries which will affect the employment level for that occupation in the future. However, the positive growth experienced in other industries will create job openings. Therefore, in a particular occupation, the Average Annual Openings are equal to growth plus replacements unless the growth is negative. If the growth is negative, then the Average Annual Openings are equal to replacements only. As a result, the Average Annual Openings for a group of occupations may be greater than the sum of growth and replacements by the amount of negative growth in the individual occupations within the group.
10. Limitations of the data include the following:
 - a) The data are not intended to predict future economic occurrences but to approximate long-term trends in the labor market.
 - b) Occupational openings for a particular year may differ substantially from those shown in the report if the economy is in a recovery or recession.
 - c) Average annual openings reflect employment demand as a function of growth and replacement, not including turnover or geographic mobility.

Please direct questions regarding the methodology to:

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