



Apprenticeship Related Instruction Cost Study Fiscal Years 2021-2022



Texas Workforce Commission
Apprenticeship Training Program

Apprenticeship Related Instruction Cost Study, Fiscal Years 2021–2022

Background

The Texas Workforce Commission (TWC) Apprenticeship Training Program serves employers and job seekers by training workers for well-paying jobs with promising futures. Apprentices are full-time, paid employees who “earn while they learn.” Under Texas Education Code Chapter 133, TWC is authorized to administer the Apprenticeship Training Program and receives an appropriation from the Texas legislature to grant funds to support a portion of the costs of related classroom instruction in apprenticeship training programs.

Per Texas Education Code §133.006(b), “At least annually, the commission shall prepare and submit to the Texas Workforce Investment Council (TWIC) or to the Apprenticeship and Training Advisory Committee, as designated by the TWIC, a report that includes an apprenticeship-related instruction cost study for the most recent state fiscal year.” The purpose of the Apprenticeship Related Instruction Cost Study is to report the current funding and costs of the state’s registered apprenticeship training programs.

This study will source information from the Apprenticeship Training Program Fiscal Year 2021 (FY’21) and Fiscal Year 2022 (FY’22) summaries and Chapter 133 historical documents to explore the following:

- I. Apprenticeship Funding and Expenditure Overview
- II. State Enrollment by Craft and/or Trade
- III. Apprenticeship Contact Hour Rate
- IV. Average Cost per Apprentice
- V. Apprenticeship Training Completions, Graduations, and Advancements
- VI. Average Statewide Annual Wage—First Year to Fifth Year
- VII. Apprenticeship Programs in Emerging and High-Demand Industries
- VIII. Conclusion

In addition, per House Bill (HB) 4451 (88th Texas Legislature, Regular Session), the Apprenticeship Related Instruction Cost Study will also include a report on available apprenticeship programs in the state and make recommendations to expand the availability of apprenticeship programs in emerging and high-demand industries.

Apprenticeship Funding and Expenditure Overview

Table 1: Total Apprenticeship Funding, Fiscal Years 2021 and 2022

Apprenticeship Funding	FY'21	FY'22
Total Appropriations	\$5,532,785	\$5,096,352
Total Contracted Amount	\$4,692,654	\$5,096,352
Actual Expenditures—Contracted Amount	\$4,496,507	\$4,831,281
Remaining Balance—Contracted Amount	\$196,147	\$265,071
Remaining Balance Percentage—Contracted Amount	4.20%	5.20%

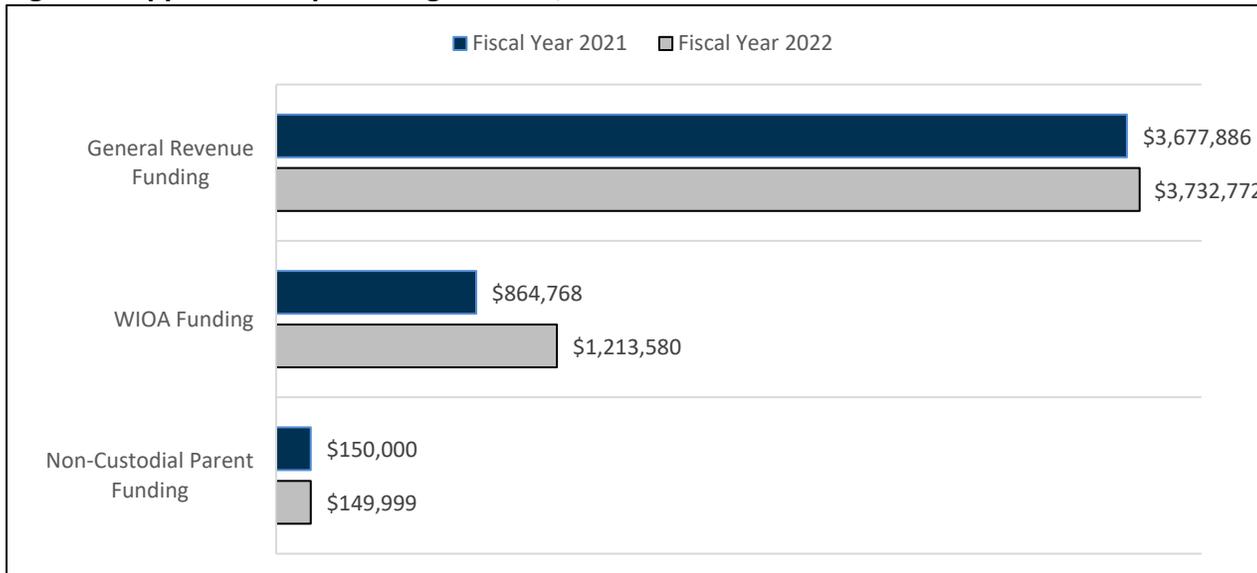
Data Source: Apprenticeship Training Program Summaries, FY'21 and FY'22

Note: Total appropriations include General Revenue and TWC-allocated funds.

The Texas legislature appropriates General Revenue state funds for the support of apprenticeship training programs authorized under Texas Education Code Chapter 133. TWC allocates funds to sponsoring local education agencies (LEAs)—public school districts or state postsecondary institutions—and independent apprenticeship committees that operate apprenticeship training programs.

TWC further supports Texas Education Code Chapter 133 General Revenue funding with Workforce Innovation and Opportunity Act (WIOA) funds and other leveraged funds, as appropriate.

Figure 1: Apprenticeship Funding Streams, Fiscal Years 2021 and 2022



Data Source: Apprenticeship Training Program Chapter 133 History Reporting

Figure 1 shows the funding streams and funding amounts contracted for FY'21 and FY'22. Texas Education Code Chapter 133 General Revenue funding is the largest source of the funding streams supporting Texas apprenticeship training programs.

For FY'22, TWC contributed more than \$1.2 million in WIOA funds to support the increasing number of apprentices receiving training. Additionally, TWC leveraged other funding, such as Noncustodial Parent Choices funds, to maximize the funds available to support apprenticeship

training.

State Enrollment by Craft and/or Trade

Apprentice Count by Occupation

TWC funding supported a total 6,625 apprentices enrolled in craft and trade apprenticeship training programs during FY'21. In FY'22, 7,187 apprentices enrolled in apprenticeship training programs. The table that follows provides detail on the number of apprentices trained by occupation.

Table 2: Apprentices by Occupation, Fiscal Years 2021 and 2022

Occupation	FY'21, Total Apprentices	FY'22, Total Apprentices
Electrician	4,254	4,287
Plumber & Pipefitter	374	452
Pipefitter	350	370
Iron Worker	435	333
Sheet Metal	269	296
Carpenter	139	232
Plumber	223	222
Telecommunications	16	163
Plumbing, Welding, Pipefitting, HVAC	216	135
Millwright	126	109
Construction Craft Laborer	0	98
Plumber/Pipefitter/HVAC/Refig. Mech	216	86
Line-Installer, Repairer	0	82
Child Care Development Specialist	14	61
HVAC	57	61
Line Erector	60	59
Interior Systems	18	49
Early Childhood Educator I	5	35
Glaziers	14	14
Insulation Worker	14	10
Bricklayer	7	7
Painter	3	7
Tradeshaw Worker	0	6
Electronic Systems Technician	3	5
Motor Grader Operator	6	3
Drywall Applicator	4	2
Cement Mason/Concrete Finisher	1	1
Paving, Surfacing, and Tampering Operator	1	1
Plasterer	2	1
Computer Support Specialist	12	0

Occupation	FY'21, Total Apprentices	FY'22, Total Apprentices
Taper	2	0
Total	6,625	7,187

Data Source: Apprenticeship Training Program Summaries, FY'21 and FY'22

Electrician, iron work, plumbing, pipefitting, and sheet metal apprenticeship programs experienced the highest enrollment numbers of all listed occupations during the 2022 fiscal year (Table 2). Enrollment for electrician apprenticeship programs comprised 60 percent of the total enrollment for FY'22.

TWC's Labor Market Information department projects that employment totals for electricians will increase by 17,300 from 2020 through 2030.² Additionally, the employment levels for all occupations listed in Table 2 are forecast to grow over the 10-year period by at least 5 percent, with the top five apprenticeship occupations expected to increase by at least 14 percent.

Apprenticeship Contact Hour Rate

The final contact hour rate is determined by dividing the total available funds by the statewide total number of contact hours of apprenticeship related training instruction, also known as RTI.

Table 3: Total Apprentices and Contact Hour Rates, Fiscal Years 2021 and 2022

Apprentices and Contact Hour Rates	FY'21	FY'22
Number Contracted	6,625	7,187
Final Contact Hour Rate	\$4.00	\$4.00

Data Source: Apprenticeship Training Program Chapter 133 History Reporting

In FY'21, TWC funding supported 6,625 apprentices. The final contact hour rate for FY'21 was \$4.00. During FY'22, TWC funding supported 7,187 apprentices. The final contact hour rate for FY'22 remained at \$4.00.

Contact Hours per Apprenticeable Occupation

TWC funding supported a total of 1,274,088 related training instruction hours in craft and trade apprenticeship training programs for FY'22. The table below provides detail on contact hours by occupation.

Table 4: Contact Hours per Occupation, Fiscal Years 2021 and 2022

Occupation	FY'21, Total Contact Hours	FY'22, Total Contact hours
Electrician	698,454	709,993
Plumber & Pipefitter	82,280	99,440
Pipefitter	77,000	80,588
Iron Worker	53,432	69,516
Sheet Metal	47,748	59,936
Plumber	42,432	40,729
Carpenter	47,520	35,856
Plumbing, Welding, Pipefitting, HVAC	25,200	29,700
Telecommunications	39,898	26,320
Millwright	21,432	21,800
Plumber/Pipefitter/HVAC/Refig. Mech	8,640	18,920
Construction Craft Laborer	11,664	14,144
Child Care Development Specialist	2,816	13,420
HVAC	2,640	12,334
Line-Installer, Repairer	2,880	11,808
Line Erector	2,072	8,496
Interior Systems	2,016	7,840
Early Childhood Educator I	2,016	5,040
Glaziers	1,008	2,016
Insulation Worker	864	1,440
Bricklayer	720	1,008
Painter	576	1,008
Tradeshaw Worker	432	864
Electronic Systems Technician	432	720
Motor Grader Operator	288	432
Drywall Applicator	288	288
Cement Mason/Concrete Finisher	144	144
Paving, Surfacing, and Tampering Operator	144	144
Plasterer	0	144
Computer Support Specialist	2,640	0
Taper	288	0
Total	1,175,066	1,274,088

Data Source: Apprenticeship Training Program Summaries, FY'21 and FY'22

Electrician, plumbing, pipefitting, sheet metal, iron worker, and carpentry apprenticeship programs reported the highest numbers of instructional hours of all listed occupations during FY'22. Instructional hours for electrician apprenticeship programs made up over half of the total contact hours for each of the reported fiscal years.

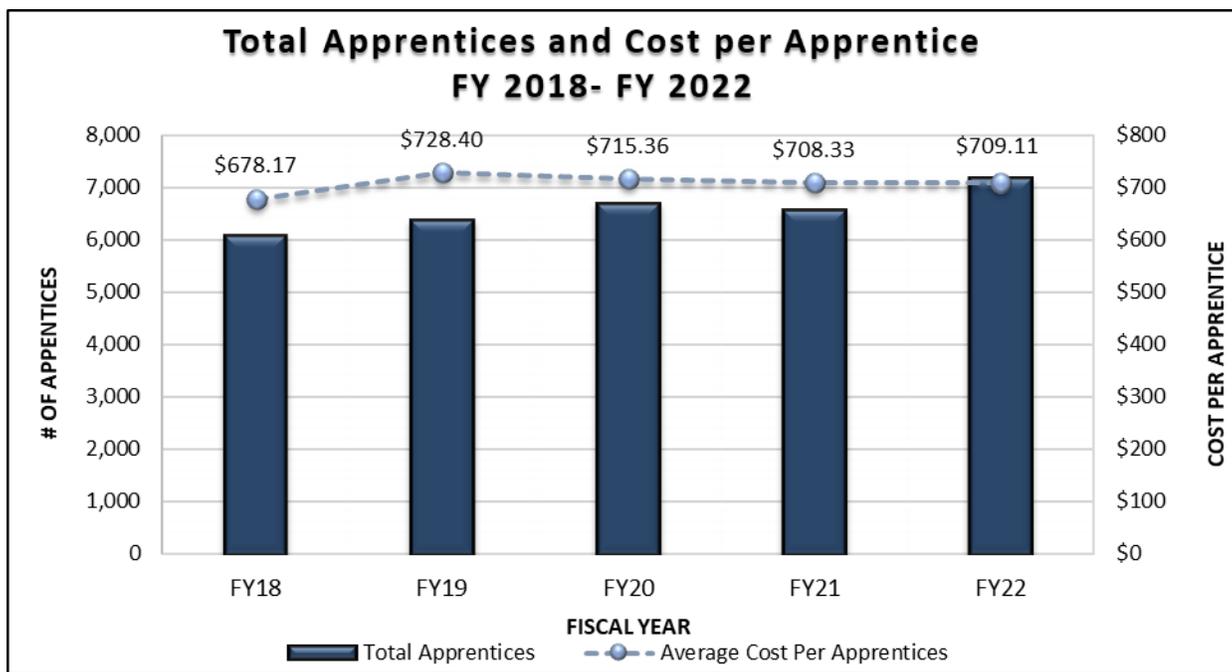
Average Cost per Apprentice

The average cost per apprentice is determined by dividing the contracted apprentice funding amount by the total number of contracted apprentices enrolled in craft and trade apprenticeship training programs. For example, the apprenticeship funding for FY'22 totaled \$5,096,352, and the total number of apprentices in FY'22 was 7,187. Therefore:

$$(\$5,096,352/7,187) = \text{average cost per apprentice, or } \$709.11, \text{ for FY'22}$$

Using data from previous fiscal years, Apprenticeship Texas staff at TWC can compare average cost per apprentice over multiple years. A comparison of average cost over FY'18 through FY'22 follows.

Figure 2: Total Apprentices and Cost per Apprentice, Fiscal Years 2018–2022



Data Source: Apprenticeship Training Program Chapter 133 History Reporting

Figure 2 shows the average cost per apprentice (dashed line) and the total number of contracted apprentices (bars) for FY'18–FY'22.

Although the average cost per apprentice is a direct correlation to the total available funds and the total contracted apprentice enrollment, the average cost per apprentice has remained below \$750 per apprentice.

Apprenticeship Training Completions, Graduations, and Advancements

The annual completion rate includes apprentices who have completed their apprenticeship training programs and graduated, as well as apprentices who have completed a year of their apprenticeship but will continue in the training program for another year or more until graduated.

Apprenticeship Graduations and Advancements

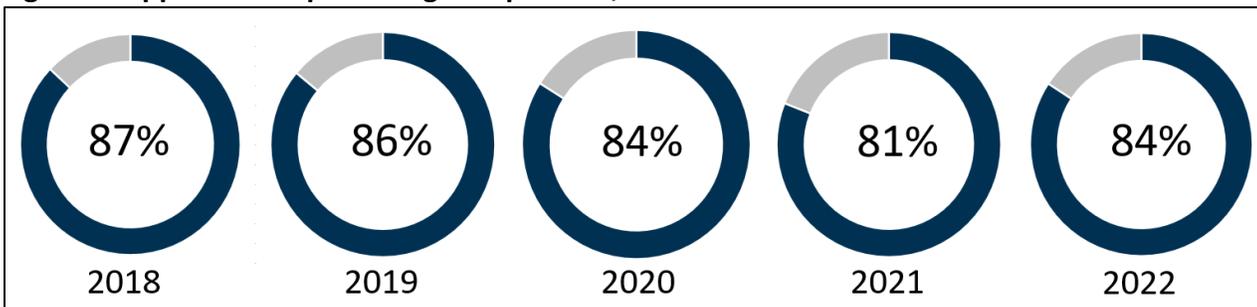
Table 5: Apprenticeship Graduations and Advancements, Fiscal Years 2021 and 2022

Advancement Type	FY'21	FY'22
Graduated	14.49%	11.73%
Training Completed and Advanced	65.03%	64.37%
Training Completed and Did Not Advance	1.90%	8.13%
Total	81.42%	84.22%

Data Source: Apprenticeship Training Program Summaries, FY'21 and FY'22

The total percentage of apprentices completing training for FY'21 and FY'22 is shown above in Table 5. The total number of apprentices who completed training in FY'22 (84.22%) was approximately 2.8 percent higher than that of FY'21 (81.42%).

Figure 3: Apprenticeship Training Completions, Fiscal Years 2018–2022

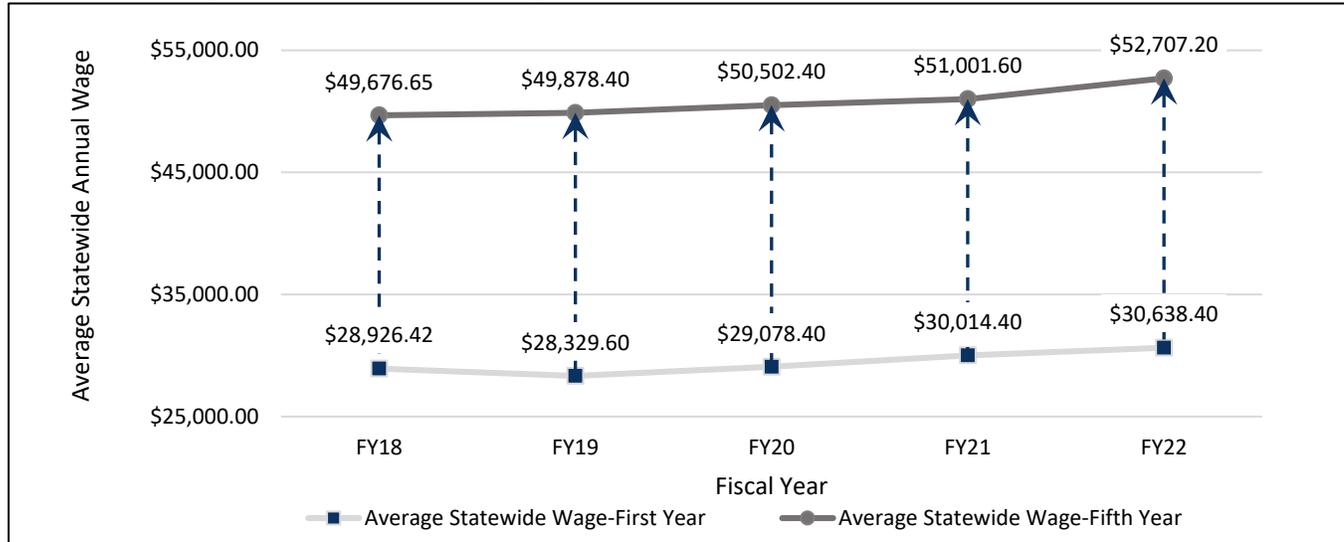


Data Source: Apprenticeship Training Program Summaries, FY'18–FY'22

Apprenticeship Average Statewide Wages, First Year to Fifth Year

The next chart, Figure 4, is a year-to-year comparison of the average annual statewide wage for participants from the first year to the fifth year of an apprenticeship training program.

Figure 4: Average Statewide Annual Wage—First Year to Fifth Year, Fiscal Years 2018–2022



Data Source: Apprenticeship Training Program Chapter 133 History Reporting

From FY'18–FY'22, the increase from first-year annual average wage to fifth-year annual average wage has consistently remained at or above 70 percent. The wage increases have ranged from \$20,000 to over \$22,000 over the last five fiscal years.

The Occupational Employment Statistics program reports that the 2022 statewide annual average wage for all Texas occupations is \$57,300.³ At \$52,707.20, the annual average wage for fifth year apprentices in FY'22 falls short of the overall annual average wage for the state of Texas.

Apprenticeship programs in emerging and high-demand industries

HB 4451 adds new information to this cost study by providing data about available registered apprenticeship programs in the state.⁴ The appendices address the following:

- [Appendix A](#): the total number of active apprenticeship programs, categorized by the industries included in the North American Industry Classification System;
- [Appendix B](#): the total number of active apprentices, categorized by the industries included in the North American Industry Classification System; and
- [Appendix C](#): the total occupational demand for each industry, categorized by each occupation in the industry for which an apprenticeship program may be established.

A final appendix—[Appendix D](#)—is included to show the total number of active apprentices in the top 25 occupations making above the Texas median wage of \$43,463. The occupations are ranked by highest projected number of jobs added due to growth for the period 2020–2030.

The projected growth creates ample opportunity to promote the apprenticeship training model and to support employers and other stakeholders who work with apprentices. Initiatives such as the Texas Industry-Recognized Apprenticeship (TIRA) Grant Program will be instrumental in growing the number of apprentices in Texas to meet current and future workforce needs.

Conclusion

This report, which will be submitted to the TWIC as required by Texas Education Code §133.006(b), provides evidence of the continued growth and success of apprenticeship training programs in Texas and recommendations for expanding the availability of apprenticeship programs in emerging and high-demand industries. Through the state's Chapter 133 program, through federal initiatives, and now, through a state-funded model known as the TIRA program, TWC will continue to support apprenticeship programs throughout Texas.

HB 4451 also directs TWC to include recommendations to expand available apprenticeship programs for emerging and high-demand industries with higher employment demand relative to the total number of active apprentices and apprenticeship programs. TWC proposes the following:

1. Continue to promote and support work-based learning models, including the apprenticeship training model.
2. Collaborate extensively with employers and other stakeholders to address training needs and to create or expand apprenticeship opportunities within emerging and high-demand industries.
3. Expand apprenticeship options across the state by promoting and supporting the new TIRA Grant Program.
4. Increase apprenticeship opportunities for high school students by implementing programs in which the first year of an apprenticeship can be completed while still enrolled in high school.

TWC has a rich history of promoting and supporting the apprenticeship training model. The launch of the new TIRA Grant Program creates more options and opportunities for all stakeholders—most notably, employers and job seekers—who recognize the benefits of the apprenticeship model. TWC's ApprenticeshipTexas staff will continue to work with new and existing programs to promote growth and innovation and to ensure strong, sustainable apprenticeship models that meet the labor market needs of a strong and vital Texas economy.

Appendix A: Active Apprenticeships by Industry

Occupation Title	Industry	NAICS Code	Active Apprentices
Able Seaman	Educational Services	611513	11
Able Seaman	Other Services (except Public Administration)	811310	15
Accounting Technician (Alternate Title: Accounting Specialist)	Educational Services	611210	38
Accounting Technician (Alternate title: Financial Specialist)	Educational Services	611513	722
Accounting Technician (Alternate title: Financial Specialist)	Professional, Scientific, and Technical Services	541618	1
Accounting Technician (Alternate title: Financial Specialist)	Public Administration (not covered in economic census)	923130	7
Acoustical Specialist (Existing Title: Acoustical Carpenter)	Construction	236220	681
Air Transport Pilot	Educational Services	611512	18
Airframe & Powerplant Mechanic	Transportation and Warehousing	481111	13
Ambulance Attendant (EMT)	Educational Services	611513	11
Ambulance Attendant (EMT)	Health Care and Social Assistance	622110	3265
Animal Trainer	Other Services (except Public Administration)	812910	2
Application Developer	Educational Services	611310	209
Application Developer	Educational Services	611513	26
Application Developer	Finance and Insurance	522320	3
Application Developer	Health Care and Social Assistance	624190	1
Application Developer	Other Services (except Public Administration)	811310	15
Apprenticeship Representative	Educational Services	611513	549
Assembler Installer General	Manufacturing	336411	23
Assembler, Metal Building	Construction	236210	57
Assembler, Metal Building	Educational Services	611513	30
Assembly Technician	Manufacturing	339999	17
Assembly Technician	Public Administration (not covered in economic census)	922140	848
Automobile Mechanic (Alternate Title: Light-Wheel Vehicle Mechanic)	Educational Services	611310	209
Automobile Mechanic (Alternate Title: Light-Wheel Vehicle Mechanic)	Public Administration (not covered in economic census)	922140	848
Automobile Mechanic (Alternate Title: Light-Wheel Vehicle Mechanic)	Utilities	221122	44

Occupation Title	Industry	NAICS Code	Active Apprentices
Automobile Body Repairer	Other Services (except Public Administration)	811121	38
Automobile Body Repairer	Public Administration (not covered in economic census)	922140	848
Automobile Repair-Service Estimator	Other Services (except Public Administration)	811121	38
Automobile Upholsterer	Public Administration (not covered in economic census)	922140	848
Automotive Technician Specialist	Educational Services	611699	14
Automotive Technician Specialist	Other Services (except Public Administration)	811111	1
Automotive Technician Specialist	Other Services (except Public Administration)	811121	1944
Automotive Technician Specialist	Other Services (except Public Administration)	811198	2
Automotive Technician Specialist	Public Administration (not covered in economic census)	923110	1
Automotive Technician Specialist	Retail Trade	441110	4
Automotive Technician Specialist (Alternate Title: Light-Weight Vehicle Mech)	Public Administration (not covered in economic census)	922140	848
Baker (Bake Produce)	Educational Services	611513	17
Baker (Bake Produce)	Public Administration (not covered in economic census)	922140	849
Baker (Hotel & Restaurant)	Public Administration (not covered in economic census)	922140	848
Barber	Educational Services	611513	549
Barber	Public Administration (not covered in economic census)	922140	848
Bindery Worker	Public Administration (not covered in economic census)	922140	848
Biomedical Equipment Technician	Health Care and Social Assistance	622110	3265
Boiler Operator	Public Administration (not covered in economic census)	922140	848
Boilermaker Fitter	Educational Services	611513	549
Boilermaker I	Construction	236220	362
Boilermaker II	Construction	237120	2
Boilermaker II	Educational Services	611513	120
Boilermaker II	Mining, Quarrying, and Oil and Gas Extraction	213112	187
Bricklayer (Construction)	Construction	236220	695
Bricklayer (Construction)	Construction	238140	3
Bricklayer (Construction)	Construction	238340	1
Bricklayer (Construction)	Educational Services	611513	30

Occupation Title	Industry	NAICS Code	Active Apprentices
Bricklayer (Construction)	Other Services (except Public Administration)	813910	56
Bricklayer (Construction)	Public Administration (not covered in economic census)	922140	848
Bricklayer (Existing Title: Bricklayer (Construction))	Educational Services	611513	120
Bricklayer, Firebrick & Refractory	Manufacturing	327213	11
Bridge Carpenter-Heavy Highway (Existing Title: Carpenter, Rough)	Construction	237310	3
Building Maintenance Repairer (Ex. Title: Maintenance Repairer, Building)	Educational Services	611513	606
Building Maintenance Repairer (Ex. Title: Maintenance Repairer, Building)	Manufacturing	327120	24
Building Maintenance Repairer (Ex. Title: Maintenance Repairer, Building)	Transportation and Warehousing	481111	13
Butcher, Allround	Public Administration (not covered in economic census)	922140	848
CABINETMAKER	Construction	236220	661
CABINETMAKER	Educational Services	611310	217
CABINETMAKER	Public Administration (not covered in economic census)	922140	848
CABLE INSTALLER-REPAIRER (Alternate Title: Cable Systems Installer/Maintainer)	Construction	237990	30
CABLE INSTALLER-REPAIRER (Alternate Title: Cable Systems Installer/Maintainer)	Construction	238210	735
CABLE INSTALLER-REPAIRER (Alternate Title: Cable Systems Installer/Maintainer)	Construction	238990	455
CABLE INSTALLER-REPAIRER (Alternate Title: Cable Systems Installer/Maintainer)	Utilities	221122	17
CABLE SPLICER	Utilities	221118	58
CABLE SPLICER	Utilities	221122	44
CAREER DEVELOPMENT TECHNICIAN	Educational Services	611513	11
CAREER DEVELOPMENT TECHNICIAN	Professional, Scientific, and Technical Services	541618	1
CARPENTER	Accommodation and Food Services	722511	39

Occupation Title	Industry	NAICS Code	Active Apprentices
CARPENTER	Administrative and Support and Waste Management and Remediation Services	561210	20
CARPENTER	Construction	236210	171
CARPENTER	Construction	236220	1403
CARPENTER	Construction	238110	1
CARPENTER	Construction	238160	3
CARPENTER	Construction	238350	157
CARPENTER	Educational Services	611110	238
CARPENTER	Educational Services	611310	8
CARPENTER	Educational Services	611513	205
CARPENTER	Educational Services	611519	34
CARPENTER	Manufacturing	324110	37
CARPENTER	Other Services (except Public Administration)	813910	56
CARPENTER	Public Administration (not covered in economic census)	922140	848
CARPENTER CONSTRUCTION	Educational Services	611513	29
CARPENTER, INTERIOR SYSTEMS - 3 YEARS	Construction	236210	171
CARPENTER, INTERIOR SYSTEMS (Alternate Title: Interior Systems Carpenter)	Construction	236220	758
CARPENTER, INTERIOR SYSTEMS (Alternate Title: Interior Systems Carpenter)	Construction	238350	100
CARPENTER, MAINTENANCE	Construction	236220	27
CARPENTER, MAINTENANCE	Educational Services	611310	8
CARPENTER, MAINTENANCE	Public Administration (not covered in economic census)	922140	1
CARPENTER, ROUGH	Construction	238350	100
CEMENT MASON	Construction	236220	664
CEMENT MASON	Construction	237310	3
CEMENT MASON	Construction	238110	27
CEMENT MASON	Construction	238330	2
CEMENT MASON	Educational Services	611513	114
CEMENT MASON	Other Services (except Public Administration)	813910	56
CEMENT MASON CONCRETE FINISHER (Existing Title: Cement Mason)	Construction	236116	1
CEMENT MASON CONCRETE FINISHER (Existing Title: Cement Mason)	Construction	236220	1

Occupation Title	Industry	NAICS Code	Active Apprentices
CEMENT MASON CONCRETE FINISHER (Existing Title: Cement Mason)	Other Services (except Public Administration)	813910	56
CERAMIC TILE INSTALLER (Existing Title: Tile Setter)	Construction	238340	3
Certified Dietary Manager	Administrative and Support and Waste Management and Remediation Services	561330	35
Certified Nursing Assistant (CNA)	Educational Services	611513	549
Chemical Laboratory Technician	Manufacturing	325110	8
Chemical Laboratory Technician	Manufacturing	325211	232
CHEMICAL OPERATOR III	Manufacturing	324110	94
CHEMICAL OPERATOR III	Manufacturing	325110	47
CHEMICAL OPERATOR III	Manufacturing	325211	232
CHILD CARE DEVELOPMENT SPECIALIST	Educational Services	611513	219
CHILD CARE DEVELOPMENT SPECIALIST	Health Care and Social Assistance	624410	82
CHILD CARE DEVELOPMENT SPECIALIST	Not Provided	811118	122
CHIMNEY SWEEP	Educational Services	611513	549
CNC OPERATOR - MILLING AND TURNING	Other Services (except Public Administration)	813910	3
CNC Operator and Programmer	Manufacturing	332710	2
CNC Set-Up Programmer – Milling and Turning	Manufacturing	332721	7
COACH OPERATOR	Educational Services	611513	11
COATING MACHINE OPERATOR I	Educational Services	611513	11
Commercial Drone Pilot	Not Provided	811118	122
COMMUNITY HEALTH WORKER	Educational Services	611513	549
COMMUNITY HEALTH WORKER	Health Care and Social Assistance	621610	27
COMMUNITY HEALTH WORKER	Health Care and Social Assistance	622110	7
Community Health Worker	Health Care and Social Assistance	621498	16
Community Health Worker	Health Care and Social Assistance	621610	5
Community Health Worker	Not Provided	811118	122
Community Health Worker	Public Administration (not covered in economic census)	923120	5
COMPOSITE PLASTIC FABRICATOR (Existing Title: Insulation Worker)	Construction	236220	176
COMPOSITE PLASTIC FABRICATOR (Existing Title: Insulation Worker)	Construction	238290	7

Occupation Title	Industry	NAICS Code	Active Apprentices
COMPOSITE PLASTIC FABRICATOR (Existing Title: Insulation Worker)	Construction	238310	19
COMPOSITE PLASTIC FABRICATOR (Existing Title: Insulation Worker)	Construction	238990	51
COMPOSITE PLASTIC FABRICATOR (Existing Title: Insulation Worker)	Educational Services	611310	8
COMPUTED TOMOGRAPHY (CT) TECHNICIAN	Educational Services	611210	38
COMPUTER PROGRAMMER	Construction	238220	23
COMPUTER PROGRAMMER	Professional, Scientific, and Technical Services	541511	12
COMPUTER PROGRAMMER	Public Administration (not covered in economic census)	922140	848
COMPUTER SUPPORT SPECIALIST	Educational Services	611310	209
COMPUTER SUPPORT SPECIALIST	Educational Services	611420	1
COMPUTER SUPPORT SPECIALIST	Educational Services	611513	182
COMPUTER SUPPORT SPECIALIST	Finance and Insurance	522320	3
COMPUTER SUPPORT SPECIALIST	Other Services (except Public Administration)	811310	15
COMPUTER SUPPORT SPECIALIST	Professional, Scientific, and Technical Services	541512	1
COMPUTER SUPPORT SPECIALIST-DESKTOP SUPPORT TECH	Accommodation and Food Services	722511	39
COMPUTER SUPPORT SPECIALIST-DESKTOP SUPPORT TECH	Educational Services	611310	200
COMPUTER SUPPORT SPECIALIST-DESKTOP SUPPORT TECH	Educational Services	611513	17
COMPUTER SYSTEMS ANALYST	Educational Services	611513	173
COMPUTER SYSTEMS ANALYST	Finance and Insurance	522320	3
COMPUTER-PERIPHERAL-EQUIPMENT-OP	Public Administration (not covered in economic census)	922140	848
CONSTRUCTION CRAFT LABORER	Construction	236116	4
CONSTRUCTION CRAFT LABORER	Construction	236210	57
CONSTRUCTION CRAFT LABORER	Construction	236220	1077
CONSTRUCTION CRAFT LABORER	Construction	237130	77
CONSTRUCTION CRAFT LABORER	Construction	237310	3
CONSTRUCTION CRAFT LABORER	Construction	237990	45
CONSTRUCTION CRAFT LABORER	Construction	238120	8
CONSTRUCTION CRAFT LABORER	Construction	238910	2
CONSTRUCTION CRAFT LABORER	Construction	238990	18
CONSTRUCTION CRAFT LABORER	Educational Services	611110	238
CONSTRUCTION CRAFT LABORER	Educational Services	611513	799
CONSTRUCTION CRAFT LABORER	Educational Services	611519	34
CONSTRUCTION CRAFT LABORER	Educational Services	611699	4

Occupation Title	Industry	NAICS Code	Active Apprentices
CONSTRUCTION CRAFT LABORER	Manufacturing	324110	37
CONSTRUCTION CRAFT LABORER	Public Administration (not covered in economic census)	923110	1
CONSTRUCTION DRIVER	Construction	237310	3
CONSTRUCTION DRIVER	Educational Services	611513	549
CONSTRUCTION DRIVER	Manufacturing	327320	1
CONSTRUCTION EQUIPMENT MECHANIC	Construction	237310	3
CONSTRUCTION EQUIPMENT MECHANIC	Construction	237990	30
CONSTRUCTION EQUIPMENT MECHANIC	Manufacturing	333924	2
CONSTRUCTION WORKER I	Construction	238340	1
Cook	Accommodation and Food Services	722511	3
Cook	Administrative and Support and Waste Management and Remediation Services	561330	35
Cook	Educational Services	611699	14
Cook	Public Administration (not covered in economic census)	922140	1
COOK (Any Ind) (Alternate Title: Nutrition Care Specialist)	Public Administration (not covered in economic census)	922140	1
COOK (Hotel & Restaurant)	Accommodation and Food Services	722511	3
COOK (Hotel & Restaurant)	Educational Services	611310	209
COOK (Hotel & Restaurant)	Educational Services	611513	549
COOK (Hotel & Restaurant)	Educational Services	611699	14
COOK (Hotel & Restaurant)	Public Administration (not covered in economic census)	922140	848
COOK, PASTRY (Hotel & Restaurant)	Accommodation and Food Services	722511	3
COOK, PASTRY (Hotel & Restaurant)	Educational Services	611513	549
COSMETOLOGIST	Other Services (except Public Administration)	812112	4
COUNSELOR	Educational Services	611513	549
COUNSELOR	Health Care and Social Assistance	621498	16
Customer Service Representative	Educational Services	611513	606
Customer Service Representative	Professional, Scientific, and Technical Services	541611	1
Customer Service Representative	Professional, Scientific, and Technical Services	541613	6
Cyber Defense Incident Responder	Professional, Scientific, and Technical Services	541511	12

Occupation Title	Industry	NAICS Code	Active Apprentices
Cyber Security Support Technician	Educational Services	611210	1
Cyber Security Support Technician	Educational Services	611420	2
Cyber Security Support Technician	Educational Services	611513	182
Cyber Security Support Technician	Educational Services	611710	9
Cyber Security Support Technician	Finance and Insurance	522320	3
Cyber Security Support Technician	Health Care and Social Assistance	621111	1
Cyber Security Support Technician	Not Provided	811118	122
Cyber Security Support Technician	Other Services (except Public Administration)	811310	15
Cyber Security Support Technician	Professional, Scientific, and Technical Services	541511	4
Cyber Security Support Technician	Professional, Scientific, and Technical Services	541512	5
Data Analyst	Professional, Scientific, and Technical Services	541511	12
Data Scientist	Educational Services	611513	26
DATABASE TECHNICIAN	Educational Services	611420	1
DENTAL ASSISTANT (Alternate Title: Dental Specialist)	Construction	238340	1
DENTAL ASSISTANT (Alternate Title: Dental Specialist)	Public Administration (not covered in economic census)	922140	1
DENTAL LABORATORY TECHNICIAN	Public Administration (not covered in economic census)	922140	848
DIE MAKER (Paper Goods)	Public Administration (not covered in economic census)	922140	848
DIE MAKER, TRIM	Manufacturing	336110	55
DIESEL MECHANIC	Administrative and Support and Waste Management and Remediation Services	562111	96
DIESEL MECHANIC	Educational Services	611210	1
DIESEL MECHANIC	Educational Services	611513	17
DIESEL MECHANIC	Educational Services	611519	1
DIESEL MECHANIC	Public Administration (not covered in economic census)	922140	848
DIESEL MECHANIC (Alternate Title: Power-Generation Equipment Repairer)	Educational Services	611513	595
DIESEL MECHANIC (Alternate Title: Power-Generation Equipment Repairer)	Transportation and Warehousing	483111	5
Digital Marketer	Educational Services	611513	549
Digital Marketer	Professional, Scientific, and Technical Services	541613	5
DIRECTOR, TELEVISION	Educational Services	611513	549

Occupation Title	Industry	NAICS Code	Active Apprentices
DIRECTOR, TELEVISION	Public Administration (not covered in economic census)	923130	7
DISPLAYER, MERCHANDISE	Administrative and Support and Waste Management and Remediation Services	561920	148
Dock Worker	Transportation and Warehousing	484110	1
DRAFTER, CIVIL	Public Administration (not covered in economic census)	922140	848
DRAFTER, MECHANICAL	Public Administration (not covered in economic census)	922140	848
DRILLING-MACHINE OPERATOR	Mining, Quarrying, and Oil and Gas Extraction	213112	3
DRY-WALL APPLICATOR	Construction	236220	811
DRY-WALL APPLICATOR	Construction	238160	3
DRY-WALL APPLICATOR	Construction	238310	5
DRY-WALL APPLICATOR	Educational Services	611513	30
DRY-WALL APPLICATOR	Other Services (except Public Administration)	813910	56
DRY-WALL APPLICATOR (Alternate Title: Drywall Applicator Specialist)	Educational Services	611513	11
E-COMMERCE SPECIALIST	Professional, Scientific, and Technical Services	541611	1
Early Childhood Educator	Educational Services	611310	46
Early Childhood Educator	Health Care and Social Assistance	624410	244
ELECTRIC METER INSTALLER I	Utilities	221121	21
ELECTRIC METER INSTALLER I	Utilities	221122	7
ELECTRIC METER REPAIRER	Utilities	221122	30
ELECTRIC METER TESTER	Utilities	221122	54
ELECTRIC MOTOR REPAIRER	Public Administration (not covered in economic census)	922140	1
ELECTRICAL APPLIANCE SERVICES	Other Services (except Public Administration)	811412	1
ELECTRICAL INSTRUMENT REPAIRER	Manufacturing	324110	94
ELECTRICAL INSTRUMENT REPAIRER	Manufacturing	325211	232
ELECTRICAL TECHNICIAN	Construction	238990	455
ELECTRICAL TECHNICIAN	Utilities	221122	16
ELECTRICIAN	Construction	238210	206
ELECTRICIAN	Educational Services	611513	260
ELECTRICIAN (Alternate Title: Interior Electrician)	Administrative and Support and Waste Management and Remediation Services	561210	20
ELECTRICIAN (Alternate Title: Interior Electrician)	Construction	236116	4

Occupation Title	Industry	NAICS Code	Active Apprentices
ELECTRICIAN (Alternate Title: Interior Electrician)	Construction	236210	66
ELECTRICIAN (Alternate Title: Interior Electrician)	Construction	236220	1224
ELECTRICIAN (Alternate Title: Interior Electrician)	Construction	237120	5
ELECTRICIAN (Alternate Title: Interior Electrician)	Construction	237130	119
ELECTRICIAN (Alternate Title: Interior Electrician)	Construction	238160	3
ELECTRICIAN (Alternate Title: Interior Electrician)	Construction	238210	6178
ELECTRICIAN (Alternate Title: Interior Electrician)	Construction	238220	1
ELECTRICIAN (Alternate Title: Interior Electrician)	Construction	238990	455
ELECTRICIAN (Alternate Title: Interior Electrician)	Educational Services	611110	238
ELECTRICIAN (Alternate Title: Interior Electrician)	Educational Services	611310	8
ELECTRICIAN (Alternate Title: Interior Electrician)	Educational Services	611513	802
ELECTRICIAN (Alternate Title: Interior Electrician)	Educational Services	611519	34
ELECTRICIAN (Alternate Title: Interior Electrician)	Educational Services	611699	65
ELECTRICIAN (Alternate Title: Interior Electrician)	Manufacturing	311999	4
ELECTRICIAN (Alternate Title: Interior Electrician)	Manufacturing	324110	325
ELECTRICIAN (Alternate Title: Interior Electrician)	Manufacturing	336110	55
ELECTRICIAN (Alternate Title: Interior Electrician)	Other Services (except Public Administration)	813410	1
ELECTRICIAN (Alternate Title: Interior Electrician)	Public Administration (not covered in economic census)	922140	848
ELECTRICIAN (Alternate Title: Interior Electrician)	Transportation and Warehousing	483111	5
ELECTRICIAN (Alternate Title: Interior Electrician)	Utilities	221122	11
ELECTRICIAN, MAINTENANCE	Construction	238210	4
ELECTRICIAN, MAINTENANCE	Manufacturing	325412	1
ELECTRICIAN, MAINTENANCE	Manufacturing	331492	4
ELECTRICIAN, MAINTENANCE	Manufacturing	332439	1
ELECTRICIAN, MAINTENANCE	Manufacturing	333924	1

Occupation Title	Industry	NAICS Code	Active Apprentices
ELECTRICIAN, MAINTENANCE	Manufacturing	336110	55
ELECTRICIAN, MAINTENANCE	Public Administration (not covered in economic census)	922140	1
ELECTRICIAN, MAINTENANCE	Utilities	221122	52
ELECTRICIAN, POWERHOUSE	Construction	237130	26
ELECTRICIAN, POWERHOUSE	Construction	238210	7
ELECTRICIAN, POWERHOUSE	Utilities	221122	44
ELECTRICIAN, SUBSTATION	Construction	237130	182
ELECTRICIAN, SUBSTATION	Construction	237990	30
ELECTRICIAN, SUBSTATION	Construction	238210	593
ELECTRICIAN, SUBSTATION	Manufacturing	324110	37
ELECTRICIAN, SUBSTATION	Professional, Scientific, and Technical Services	541330	117
ELECTRICIAN, SUBSTATION	Utilities	221118	58
ELECTRICIAN, SUBSTATION	Utilities	221122	526
ELECTROMECHANICAL TECHNICIAN	Manufacturing	327213	11
ELECTROMECHANICAL TECHNICIAN	Other Services (except Public Administration)	813910	3
Electromechanical Technician CB	Educational Services	611310	7
ELECTRONIC SYSTEMS TECH	Administrative and Support and Waste Management and Remediation Services	561621	6
ELECTRONIC SYSTEMS TECH	Construction	236220	150
ELECTRONIC SYSTEMS TECH	Construction	238210	193
ELECTRONIC UTILITY WORKER	Utilities	221122	3
ELECTRONICS TECHNICIAN	Educational Services	611310	8
ELECTRONICS TESTER	Manufacturing	339999	17
ELECTRONICS TESTER	Utilities	221122	33
ELECTRONICS UTILITY WORKER	Public Administration (not covered in economic census)	924110	4
ELEVATOR CONSTRUCTOR (Alternate Title: Elevator Constructor Mechanic)	Construction	238220	109
ELEVATOR CONSTRUCTOR (Alternate Title: Elevator Constructor Mechanic)	Construction	238290	60
ELEVATOR CONSTRUCTOR (Alternate Title: Elevator Constructor Mechanic)	Educational Services	611513	323
Emergency Medical Technician	Health Care and Social Assistance	622110	3265
ENERGY AUDITOR AND ANALYST	Educational Services	611513	5
ENERGY SPECIALIST	Educational Services	611513	11

Occupation Title	Industry	NAICS Code	Active Apprentices
Engineering Assistant (Aerospace Engineering)	Public Administration (not covered in economic census)	923110	1
ENVIRONMENTAL CONTROL SYST. INSTAL/SERVICES (HVAC)	Construction	236116	4
ENVIRONMENTAL CONTROL SYST. INSTAL/SERVICES (HVAC)	Construction	238220	319
ENVIRONMENTAL CONTROL SYST. INSTAL/SERVICES (HVAC)	Educational Services	611513	558
ENVIRONMENTAL CONTROL SYST. INSTAL/SERVICES (HVAC)	Educational Services	611519	34
Esthetician	Other Services (except Public Administration)	812112	3
FABRICATOR-ASSEMBLER METAL PROD	Manufacturing	339999	17
FACILITY MANAGER	Educational Services	611310	200
FARM WORKER, GENERAL I	Agriculture, Forestry, Fishing and Hunting	111998	1
Fiber Optic Technician	Educational Services	611513	11
Fiber Optic Technician	Information	518210	12
FILM OR VIDEOTAPE EDITOR	Educational Services	611513	549
FIRE APPARATUS ENGINEER	Manufacturing	325211	232
FIRE FIGHTER	Educational Services	611310	15
FIRE FIGHTER	Public Administration (not covered in economic census)	922160	121
FITTER I (Any Ind)	Construction	237310	187
FLOOR LAYER	Construction	236220	661
FLOOR LAYER	Construction	238150	112
FLOOR LAYER	Other Services (except Public Administration)	813910	56
FLOOR LAYER (Alternate Title: Floor Cover)	Construction	238330	2
FLOOR LAYER (Alternate Title: Floor Cover)	Construction	238350	100
FLOOR LAYER (Painters)	Construction	238330	1
FORM BUILDER (Const)	Construction	236220	873
FORM BUILDER (Const)	Construction	237310	3
FORM BUILDER CARPENTER (Existing Title: Form Builder)	Construction	236210	57
FORM BUILDER CARPENTER (Existing Title: Form Builder)	Construction	238910	2
Freight Broker	Educational Services	611513	549
FURNITURE UPHOLSTERER	Public Administration (not covered in economic census)	922140	848
GAS UTILITY WORKER	Construction	237130	573
GAS-REGULATOR REPAIRER	Not Provided	333999	3

Occupation Title	Industry	NAICS Code	Active Apprentices
GENERAL INSURANCE ASSOCIATE	Educational Services	611513	17
GENERAL INSURANCE ASSOCIATE	Educational Services	611699	4
GENERAL INSURANCE ASSOCIATE	Other Services (except Public Administration)	811310	15
GLASS BLOWER	Manufacturing	327212	1
GLAZIER	Construction	236220	811
GLAZIER	Construction	238150	129
GLAZIER	Construction	238320	5
GLAZIER	Educational Services	611513	30
GLAZIER	Other Services (except Public Administration)	813910	56
GRAPHIC DESIGNER	Educational Services	611513	11
GRAPHIC DESIGNER	Professional, Scientific, and Technical Services	541613	5
GRAPHIC DESIGNER	Public Administration (not covered in economic census)	922140	848
GUARD, SECURITY	Educational Services	611513	549
HAIR STYLIST (Existing Title: Cosmetologist)	Educational Services	611511	2
HAZARDOUS-WASTE MATERIAL TECHNICIAN	Construction	237130	573
HEALTH INFORMATION MANAGEMENT DATA ANALYST	Finance and Insurance	524298	109
HEALTH INFORMATION MANAGEMENT HOSPITAL CODER	Finance and Insurance	524298	109
HEALTH INFORMATION TECHNOLOGY SPECIALIST	Finance and Insurance	524298	109
HEALTH INFORMATION TECHNOLOGY SPECIALIST	Health Care and Social Assistance	621111	1
HEALTH SUPPORT SPECIALIST (Existing Title: Home Health Aide)	Administrative and Support and Waste Management and Remediation Services	561330	35
HEATING & AIR CONDITIONING MECHANIC & INSTALLER	Construction	236220	58
HEATING & AIR CONDITIONING MECHANIC & INSTALLER	Construction	238220	16
HEATING & AIR CONDITIONING MECHANIC & INSTALLER	Educational Services	611310	209
HEATING & AIR CONDITIONING MECHANIC & INSTALLER	Educational Services	611513	102
HEATING & AIR CONDITIONING MECHANIC & INSTALLER	Manufacturing	332322	22
HEATING & AIR CONDITIONING MECHANIC & INSTALLER	Not Provided	811118	122

Occupation Title	Industry	NAICS Code	Active Apprentices
HEATING & AIR-CONDITIONER INSTALL/SER	Administrative and Support and Waste Management and Remediation Services	561210	20
HEATING & AIR-CONDITIONER INSTALL/SER	Construction	236220	831
HEATING & AIR-CONDITIONER INSTALL/SER	Construction	238210	1
HEATING & AIR-CONDITIONER INSTALL/SER	Construction	238220	484
HEATING & AIR-CONDITIONER INSTALL/SER	Construction	238290	35
HEATING & AIR-CONDITIONER INSTALL/SER	Educational Services	611310	208
HEATING & AIR-CONDITIONER INSTALL/SER	Educational Services	611513	116
HEATING & AIR-CONDITIONER INSTALL/SER	Educational Services	611519	34
HEATING & AIR-CONDITIONER INSTALL/SER	Educational Services	611699	14
HEATING & AIR-CONDITIONER INSTALL/SER	Public Administration (not covered in economic census)	922140	849
HEATING, VENTILATION, AIR CONIDTIONING (Ex. Tit: Heating&Air Cond. Inst/Ser)	Construction	238220	1097
HEATING, VENTILATION, AIR CONIDTIONING (Ex. Tit: Heating&Air Cond. Inst/Ser)	Educational Services	611513	120
Heavy and Tractor Trailer Truck Driver	Other Services (except Public Administration)	812112	2
Heavy and Tractor Trailer Truck Driver	Transportation and Warehousing	484110	1
HELP DESK TECHNICIAN	Other Services (except Public Administration)	813410	1
HOME HEALTH AIDE (CB)	Educational Services	611210	22
HOME HEALTH AIDE (CB)	Health Care and Social Assistance	621610	1
HOME HEALTH DIRECTOR	Administrative and Support and Waste Management and Remediation Services	561330	35
Home Health Director (CB)	Health Care and Social Assistance	622110	3265
HOME PERFORMANCE LABORER (Residential)	Public Administration (not covered in economic census)	921190	40
Home Performance Laborer Residential, Revised	Educational Services	611513	11

Occupation Title	Industry	NAICS Code	Active Apprentices
Horizontal Directional Drill Operator	Utilities	221122	6
HORTICULTURIST	Educational Services	611310	209
HORTICULTURIST	Public Administration (not covered in economic census)	922140	849
HOTEL ASSOCIATE	Educational Services	611310	200
HOUSEKEEPER, COM, RES, IND	Educational Services	611699	4
HYDRO BLASTER/VACUUM TECHNICIAN	Construction	238150	112
HYDRO BLASTER/VACUUM TECHNICIAN	Mining, Quarrying, and Oil and Gas Extraction	213112	28
INDUSTRIAL MACHINIST SYSTEM TECHNICIAN	Manufacturing	325211	232
INDUSTRIAL MACHINIST SYSTEM TECHNICIAN	Other Services (except Public Administration)	811310	149
INDUSTRIAL MACHINIST SYSTEM TECHNICIAN	Professional, Scientific, and Technical Services	541860	2
Industrial Maintenance Mechanic	Educational Services	611310	200
Industrial Maintenance Mechanic	Information	518210	1
Industrial Maintenance Mechanic	Manufacturing	311999	4
Industrial Maintenance Mechanic	Manufacturing	326199	33
Industrial Maintenance Mechanic	Manufacturing	339999	17
Industrial Maintenance Mechanic	Other Services (except Public Administration)	811310	24
Industrial Maintenance Mechanic	Other Services (except Public Administration)	812332	3
Industrial Manufacturing Technician	Educational Services	611513	11
Industrial Manufacturing Technician	Manufacturing	334413	10
Industrial Sewing Machine Operator	Educational Services	611310	7
Information Technology Specialist	Educational Services	611310	200
INJECTION MOLDING MACHINE OPERATOR	Manufacturing	325211	5
INJECTION-MOLDING-MACHINIST OPERATOR	Manufacturing	333511	9
INJECTION-MOLDING-MACHINIST OPERATOR	Public Administration (not covered in economic census)	922140	848
INSPECTOR, BUILDING	Construction	238220	14
INSPECTOR, PRECISION	Manufacturing	332722	2
INSTRUMENT MECHANIC (Any Ind)	Construction	236220	150
INSTRUMENT MECHANIC (Any Ind)	Educational Services	611513	30
INSTRUMENT MECHANIC (Any Ind)	Manufacturing	325211	232
INSTRUMENT TECHNICIAN (Utilities)	Manufacturing	325110	8
INSTRUMENT TECHNICIAN (Utilities)	Utilities	221122	44
Instrumentation & Controls Technician	Educational Services	611513	11

Occupation Title	Industry	NAICS Code	Active Apprentices
Instrumentation & Controls Technician	Manufacturing	325110	10
INSTRUMENTATION TECHNICIAN	Manufacturing	324110	231
INSULATION WORKER	Construction	236220	863
INSULATION WORKER	Construction	238290	1
INSULATION WORKER	Construction	238310	5
INSULATION WORKER	Construction	238990	25
INSULATION WORKER	Educational Services	611513	161
IT Generalist	Educational Services	611513	9
IT Generalist	Educational Services	611710	9
IT Generalist	Health Care and Social Assistance	621610	25
IT Generalist	Professional, Scientific, and Technical Services	541519	1
IT Generalist	Professional, Scientific, and Technical Services	541611	1
IT PROJECT MANAGER	Educational Services	611420	1
IT PROJECT MANAGER	Management of Companies and Enterprises	551112	60
IT PROJECT MANAGER	Professional, Scientific, and Technical Services	541613	5
K-12 Teacher	Educational Services	611110	33
K-12 Teacher	Educational Services	611310	46
LABORATORY ASSISTANT	Utilities	221122	44
LABORATORY TECHNICIAN	Manufacturing	324110	325
LABORATORY TECHNICIAN	Manufacturing	325110	47
LABORATORY TESTER	Manufacturing	324110	94
LANDSCAPE MANAGEMENT TECHNICIAN	Accommodation and Food Services	722511	39
LANDSCAPE MANAGEMENT TECHNICIAN	Administrative and Support and Waste Management and Remediation Services	561730	10
LANDSCAPE MANAGEMENT TECHNICIAN	Educational Services	611513	46
LANDSCAPE TECHNICIAN	Administrative and Support and Waste Management and Remediation Services	561730	1
LANDSCAPE TECHNICIAN	Educational Services	611513	549
LANDSCAPE TECHNICIAN	Public Administration (not covered in economic census)	922140	849
LATHER (Alternate Title: Lathing Specialist)	Construction	238350	100
LIGHT TECHNICIAN	Educational Services	611513	549
LINE ERECTOR (POWER-LINE DISTRIBUTION ERECTOR)	Construction	237130	94

Occupation Title	Industry	NAICS Code	Active Apprentices
LINE ERECTOR (POWER-LINE DISTRIBUTION ERECTOR)	Construction	238210	593
LINE ERECTOR (POWER-LINE DISTRIBUTION ERECTOR)	Utilities	221112	6
LINE ERECTOR (POWER-LINE DISTRIBUTION ERECTOR)	Utilities	221118	58
LINE ERECTOR (POWER-LINE DISTRIBUTION ERECTOR)	Utilities	221122	161
LINE INSTALLER-REPAIRER	Construction	237130	763
LINE INSTALLER-REPAIRER	Manufacturing	324110	37
LINE INSTALLER-REPAIRER	Utilities	221112	18
LINE INSTALLER-REPAIRER	Utilities	221121	21
LINE INSTALLER-REPAIRER	Utilities	221122	803
LINE MAINTAINER (Alternate Title: High Voltage Electrician)	Construction	236210	57
LINE MAINTAINER (Alternate Title: High Voltage Electrician)	Construction	237130	924
LINE MAINTAINER (Alternate Title: High Voltage Electrician)	Professional, Scientific, and Technical Services	541330	117
LINE MAINTAINER (Alternate Title: High Voltage Electrician)	Public Administration (not covered in economic census)	921110	5
LINE MAINTAINER (Alternate Title: High Voltage Electrician)	Utilities	221122	427
LINE REPAIRER	Utilities	221122	170
LOCKSMITH	Educational Services	611310	8
LONG TERM CARE NURSE MANAGEMENT	Administrative and Support and Waste Management and Remediation Services	561330	35
MACHINE OPERATOR I	Educational Services	611513	11
MACHINE OPERATOR I	Manufacturing	325211	232
MACHINE REPAIRER, MAINTENANCE	Manufacturing	333924	1
MACHINE REPAIRER, MAINTENANCE	Manufacturing	336110	55
MACHINE SET-UP OPERATOR	Manufacturing	325211	232
MACHINIST	Educational Services	611513	53
MACHINIST	Manufacturing	332216	1
MACHINIST	Manufacturing	333132	8
MACHINIST (Alternate Title: Precision Machinist)	Educational Services	611310	200
MACHINIST (Alternate Title: Precision Machinist)	Educational Services	611513	173
MACHINIST (Alternate Title: Precision Machinist)	Educational Services	611519	2
MACHINIST (Alternate Title: Precision Machinist)	Manufacturing	324110	325

Occupation Title	Industry	NAICS Code	Active Apprentices
MACHINIST (Alternate Title: Precision Machinist)	Manufacturing	332710	3
MACHINIST (Alternate Title: Precision Machinist)	Manufacturing	339999	6
MACHINIST (Alternate Title: Precision Machinist)	Public Administration (not covered in economic census)	922140	848
MACHINIST (Alternate Title: Precision Machinist)	Manufacturing	332721	51
MAGNETIC RESONANCE IMAGING TECH	Educational Services	611210	38
MAGNETIC RESONANCE IMAGING TECH	Health Care and Social Assistance	622110	3
MAINT MECHANIC (Any Ind) (Alternate Title: Industrial Maintenance Mechanic)	Manufacturing	324110	325
MAINT MECHANIC (Any Ind) (Alternate Title: Industrial Maintenance Mechanic)	Manufacturing	325211	232
MAINT MECHANIC (Any Ind) (Alternate Title: Industrial Maintenance Mechanic)	Manufacturing	327213	11
MAINT MECHANIC (Any Ind) (Alternate Title: Industrial Maintenance Mechanic)	Public Administration (not covered in economic census)	922140	849
MAINT MECHANIC (Any Ind) (Alternate Title: Industrial Maintenance Mechanic)	Utilities	221122	44
MAINT MECHANIC (Const; Petrol) (Alternate Title: Heavy-Wheel Vehicle Mechanic)	Manufacturing	324110	94
MAINTENANCE MACHINIST	Manufacturing	327213	11
MAINTENANCE REPAIRER, BUILD	Educational Services	611310	8
MAINTENANCE REPAIRER, BUILD	Information	518210	1
MAINTENANCE REPAIRER, BUILD	Manufacturing	324110	94
MAINTENANCE REPAIRER, BUILD	Manufacturing	326199	2
MAINTENANCE REPAIRER, BUILD	Manufacturing	332721	51
MAINTENANCE REPAIRER, BUILD	Public Administration (not covered in economic census)	922140	849
MAINTENANCE REPAIRER, INDUSTRIAL	Manufacturing	326112	1
MAINTENANCE REPAIRER, INDUSTRIAL	Manufacturing	327213	11
Management Systems Auditor	Public Administration (not covered in economic census)	923110	4
MANAGER, RETAIL STORE	Retail Trade	459999	1

Occupation Title	Industry	NAICS Code	Active Apprentices
MANAGER, RETAIL STORE (Store Manager - 3 Level Career Lattice)	Retail Trade	456110	35
MARBLE FINISHER	Construction	236220	546
MARBLE FINISHER	Construction	238990	11
MARBLE SETTER	Construction	236220	546
MATERIAL COORDINATOR (Alt Titles: Automated Logistical /Unit Supply Specialists)	Educational Services	611513	606
MATERIAL COORDINATOR (Alt Titles: Automated Logistical /Unit Supply Specialists)	Educational Services	611699	4
MATERIAL COORDINATOR (Alt Titles: Automated Logistical /Unit Supply Specialists)	Manufacturing	325211	232
MECHANIC, INDUSTRIAL TRUCK (Alternate Titles: Diesel Mech/Power-Gen Equip Rep)	Public Administration (not covered in economic census)	922140	848
Mechanical Engineering Technician	Manufacturing	336390	14
Mechatronics Technician	Educational Services	611210	1
Mechatronics Technician	Educational Services	611513	722
Mechatronics Technician	Manufacturing	333248	19
Mechatronics Technician	Manufacturing	336390	14
Mechatronics Technician	Manufacturing	339999	17
Medical Assistant	Educational Services	611210	22
Medical Assistant	Health Care and Social Assistance	621111	4
Medical Assistant	Health Care and Social Assistance	622110	3440
Medical Assistant	Public Administration (not covered in economic census)	923130	7
MEDICAL CODER (Alternate Title: Patient Administration Specialist)	Educational Services	611513	549
MEDICAL CODER (Alternate Title: Patient Administration Specialist)	Professional, Scientific, and Technical Services	541611	20
Medical Record and Health Information Technician/Medical Coders	Administrative and Support and Waste Management and Remediation Services	561330	35
Medical Record and Health Information Technician/Medical Coders	Educational Services	611513	549
MEDICAL SECRETARY	Health Care and Social Assistance	621111	3
METAL FABRICATOR	Manufacturing	324110	94
METAL FABRICATOR	Public Administration (not covered in economic census)	922140	848

Occupation Title	Industry	NAICS Code	Active Apprentices
METER REPAIRER (Any Ind)	Utilities	221122	168
MILLWRIGHT	Construction	236210	171
MILLWRIGHT	Construction	236220	935
MILLWRIGHT	Construction	238350	100
MILLWRIGHT	Educational Services	611310	8
MILLWRIGHT	Educational Services	611513	225
MILLWRIGHT	Manufacturing	325110	18
MILLWRIGHT	Manufacturing	333611	27
MILLWRIGHT	Manufacturing	336110	55
MOLD MAKER, DIE-CAST & PLASTIC	Educational Services	611519	2
MOLD MAKER, DIE-CAST & PLASTIC	Manufacturing	327213	14
MOTOR-GRADER OPERATOR	Construction	238210	7
MOTOR-GRADER OPERATOR	Construction	238910	7
Network And Computer Systems Administrator (Alternate Title: IT Specialist)	Educational Services	611513	731
Network And Computer Systems Administrator (Alternate Title: IT Specialist)	Other Services (except Public Administration)	811310	15
Network Support Technician	Professional, Scientific, and Technical Services	541512	1
NON-BAT REGISTERED DOT'S	Construction	236220	546
Numerical Control Machnist Oper	Educational Services	611210	1
Numerical Control Machnist Oper	Manufacturing	332722	2
Nurse Assistant	Health Care and Social Assistance	621610	1
Nurse Assistant	Health Care and Social Assistance	622110	175
Nurse Assistant	Other Services (except Public Administration)	813410	1
Nurse Assistant	Public Administration (not covered in economic census)	923120	7
Nurse Assistant Certified (CB)	Educational Services	611210	60
Nurse Assistant Certified (CB)	Health Care and Social Assistance	622110	3265
Nurse Assistant Certified (CB)	Not Provided	811118	122
Nurse Assistant Certified (Existing Title: Nurse Assistant)	Administrative and Support and Waste Management and Remediation Services	561330	35
Nurse Assistant Certified (Existing Title: Nurse Assistant)	Educational Services	611210	22
Nurse Assistant Certified (Existing Title: Nurse Assistant)	Educational Services	611513	17
Nurse Assistant Certified (Existing Title: Nurse Assistant)	Health Care and Social Assistance	621610	15

Occupation Title	Industry	NAICS Code	Active Apprentices
Nurse Assistant Certified (Existing Title: Nurse Assistant)	Health Care and Social Assistance	622110	3268
Nurse, Licensed Practical	Administrative and Support and Waste Management and Remediation Services	561330	35
Nurse, Licensed Practical	Health Care and Social Assistance	622110	13
Office Manager/Admin Services	Construction	237310	3
Office Manager/Admin Services	Health Care and Social Assistance	621111	1
Office Manager/Admin Services	Not Provided	811118	122
Office Manager/Admin Services	Other Services (except Public Administration)	811121	10
Office Manager/Admin Services	Other Services (except Public Administration)	812112	3
Office Manager/Admin Services	Professional, Scientific, and Technical Services	541618	1
Office Manager/Admin Services	Professional, Scientific, and Technical Services	541930	1
Office Manager/Admin Services	Real Estate and Rental and Leasing	531210	1
OFFSET PLATE MAKER	Public Administration (not covered in economic census)	922140	848
Offset Press Op Dial	Public Administration (not covered in economic census)	922140	848
OFFSET-PRESS OPERATOR I	Public Administration (not covered in economic census)	922140	848
OIL FIELD EQUIP MECHANIC	Educational Services	611513	30
OIL FIELD EQUIP MECHANIC(Op I Frac-Acd	Educational Services	611210	1
OIL FIELD EQUIP MECHANIC(Op I Frac-Acd	Educational Services	611513	11
OPERATING ENGINEER	Administrative and Support and Waste Management and Remediation Services	562119	2
OPERATING ENGINEER	Construction	236210	110
OPERATING ENGINEER	Construction	236220	36
OPERATING ENGINEER	Construction	237130	75
OPERATING ENGINEER	Construction	237990	30
OPERATING ENGINEER	Construction	238910	7
OPERATING ENGINEER	Educational Services	611513	29
OPERATING ENGINEER	Educational Services	611519	34
OPERATING ENGINEER	Manufacturing	324110	37
OPERATING ENGINEER	Other Services (except Public Administration)	813910	56

Occupation Title	Industry	NAICS Code	Active Apprentices
OPERATING ENGINEER (Alternate Title: Heavy Construction Equipment Mechanic)	Construction	236210	53
OPERATING ENGINEER (Alternate Title: Heavy Construction Equipment Mechanic)	Construction	236220	665
OPERATING ENGINEER (Alternate Title: Heavy Construction Equipment Mechanic)	Construction	237120	5
OPERATING ENGINEER (Alternate Title: Heavy Construction Equipment Mechanic)	Construction	237310	3
OPERATING ENGINEER (Alternate Title: Heavy Construction Equipment Mechanic)	Construction	238190	1
OPERATING ENGINEER (Alternate Title: Heavy Construction Equipment Mechanic)	Construction	238910	2
OPERATING ENGINEER (Alternate Title: Heavy Construction Equipment Mechanic)	Educational Services	611513	30
OPERATING ENGINEER (Alternate Title: Heavy Construction Equipment Mechanic)	Other Services (except Public Administration)	811310	1
OPERATING ENGINEER (Alternate Title: Heavy Construction Equipment Mechanic)	Utilities	221122	44
Operations Management	Educational Services	611310	7
Organic Vegetable Farm Manager	Not Provided	811118	122
PAINTER (Const)	Construction	236116	4
PAINTER (Const)	Construction	236220	814
PAINTER (Const)	Construction	237310	187
PAINTER (Const)	Construction	238150	112
PAINTER (Const)	Construction	238310	5
PAINTER (Const)	Construction	238320	5
PAINTER (Const)	Educational Services	611310	8
PAINTER (Const)	Educational Services	611513	30
PAINTER (Const)	Other Services (except Public Administration)	813910	56
PAINTER (Const)	Public Administration (not covered in economic census)	922140	1
PAINTER (Professional and Kindred)	Construction	238160	3
PAINTER, HAND (Any Ind)	Educational Services	611513	9
PAINTER, INDUST COATING AND LINING APP SPECIALIST	Construction	236220	202

Occupation Title	Industry	NAICS Code	Active Apprentices
PAINTER, INDUST COATING AND LINING APP SPECIALIST	Construction	238150	112
PAINTER, INDUST COATING AND LINING APP SPECIALIST	Educational Services	611513	150
PAINTER, TRANS EQUIPMENT	Construction	238130	2
PAINTER, TRANS EQUIPMENT	Other Services (except Public Administration)	811121	10
PARALEGAL (Alternate Title: Paralegal Specialist)	Professional, Scientific, and Technical Services	541511	12
PARAMEDIC (Alternate Title: Health Care Specialist)	Health Care and Social Assistance	622110	3265
PARAMEDIC (Alternate Title: Health Care Specialist)	Public Administration (not covered in economic census)	922160	18
PATTERNMAKER, PLASTICS	Manufacturing	326199	33
PEER SPECIALIST	Other Services (except Public Administration)	813920	4
PERSONNEL SYSTEMS MANAGEMENT (3S0X2)	Construction	236220	202
PERSONNEL SYSTEMS MANAGEMENT (3S0X2)	Educational Services	611513	549
PHARMACIST ASSISTANT (Alternate Title: Pharmacy Technician)	Educational Services	611513	17
PHARMACY SUPPORT STAFF (Alternate Title: Pharmacy Specialist)	Health Care and Social Assistance	621111	1
PHARMACY SUPPORT STAFF (Alternate Title: Pharmacy Specialist)	Health Care and Social Assistance	622110	3265
PHARMACY SUPPORT STAFF (Alternate Title: Pharmacy Specialist)	Retail Trade	456110	35
PHARMACY TECHNICIAN, RETAIL STORE (Existing Title: Pharmacist Assistant)	Transportation and Warehousing	484121	4
Pharmacy Technician, Retail Store (Revised)	Administrative and Support and Waste Management and Remediation Services	561330	35
Pharmacy Technician, Retail Store (Revised)	Educational Services	611513	549
Phlebotomist	Educational Services	611310	200
Phlebotomist	Educational Services	611513	566
Phlebotomist	Health Care and Social Assistance	622110	3265
Phlebotomist	Not Provided	811118	122
PHOTOCOMPOSING-PERFORAT-MA	Educational Services	611513	549
PHOTOTYPESETTER OPERATOR	Public Administration (not covered in economic census)	922140	848
PILE DRIVER OPERATOR	Construction	236220	546

Occupation Title	Industry	NAICS Code	Active Apprentices
PINSETTER MECH, AUTOMATIC	Construction	237990	30
PIPE FITTER - SPRINKLER FITTER	Construction	238220	9
PIPE FITTER - SPRINKLER FITTER	Other Services (except Public Administration)	813910	56
PIPE FITTER (Construction)	Administrative and Support and Waste Management and Remediation Services	561621	13
PIPE FITTER (Construction)	Construction	236220	1066
PIPE FITTER (Construction)	Construction	237120	5
PIPE FITTER (Construction)	Construction	237310	187
PIPE FITTER (Construction)	Construction	238220	2292
PIPE FITTER (Construction)	Construction	238290	35
PIPE FITTER (Construction)	Educational Services	611310	8
PIPE FITTER (Construction)	Educational Services	611513	289
PIPE FITTER (Construction)	Educational Services	611519	34
PIPE FITTER (Construction)	Manufacturing	332322	22
PIPE FITTER (Construction)	Manufacturing	336110	55
PIPE FITTER (Construction)	Mining, Quarrying, and Oil and Gas Extraction	213112	187
PIPE FITTER (Construction)	Public Administration (not covered in economic census)	922160	2
PIPE FITTER (Construction)	Utilities	221113	2
PIPE FITTER (Existing Title: Pipe Fitter (Construction))	Construction	238220	351
Pipe Fitter-Sprinkler Fitter	Construction	238220	14
PIPEFITTING	Manufacturing	324110	37
PLANT OPERATOR	Not Provided	453910	59
PLASTERER	Construction	236220	661
PLASTERER	Construction	238110	25
PLASTERER	Construction	238310	5
PLUMBER	Administrative and Support and Waste Management and Remediation Services	561210	20
PLUMBER	Construction	236116	4
PLUMBER	Construction	236220	961
PLUMBER	Construction	238210	1
PLUMBER	Construction	238220	2549
PLUMBER	Educational Services	611110	238
PLUMBER	Educational Services	611310	8
PLUMBER	Educational Services	611513	283
PLUMBER	Educational Services	611519	34
PLUMBER	Manufacturing	332322	22
PLUMBER	Not Provided	811118	122

Occupation Title	Industry	NAICS Code	Active Apprentices
PLUMBER	Public Administration (not covered in economic census)	922140	849
POWER-PLANT OPERATOR	Educational Services	611310	8
POWER-PLANT OPERATOR	Utilities	221122	44
POWERHOUSE MECHANIC	Manufacturing	325110	8
PRECISION ASSEMBLER, BENCH	Manufacturing	339999	17
Production Cook	Accommodation and Food Services	722511	3
Professional Brewer	Educational Services	611310	200
Project Manager	Educational Services	611513	120
Propane Service Technician	Other Services (except Public Administration)	811412	1
PROTECTIVE-SIGNAL INSTALLER	Administrative and Support and Waste Management and Remediation Services	561612	9
PROTECTIVE-SIGNAL INSTALLER	Administrative and Support and Waste Management and Remediation Services	561621	1
PUBLIC HEALTH INFORMATICIAN (CDC)	Health Care and Social Assistance	622110	3265
PUMPER-GAUGER	Manufacturing	325211	232
Quality Control Inspector	Educational Services	611519	2
Quality Control Inspector	Manufacturing	325110	8
Quality Control Technician	Manufacturing	332710	2
Quality Control Technician	Manufacturing	332721	51
Quality Control Technician	Public Administration (not covered in economic census)	922140	1
REFINERY OPERATOR	Manufacturing	324110	231
REFINERY OPERATOR	Manufacturing	325110	18
REFRIGERATION AND AIR CONDITIONING MAINTENANCE (Existing Title: Refrigeration Mechanic)	Construction	238220	147
REFRIGERATION MECHANIC (Any Ind)	Construction	238220	554
REFRIGERATION MECHANIC (Any Ind)	Educational Services	611310	8
Registered Nurse	Educational Services	611513	17
Registered Nurse	Health Care and Social Assistance	622110	36
Registered Nurse	Other Services (except Public Administration)	811310	15
Registered Nurse Resident	Educational Services	611513	17
Registered Nurse Resident	Health Care and Social Assistance	622110	3333

Occupation Title	Industry	NAICS Code	Active Apprentices
REINFORCING IRONWORKER CONCRETE (Existing Title: Reinforcing Metal Worker)	Construction	236220	212
REINFORCING IRONWORKER CONCRETE (Existing Title: Reinforcing Metal Worker)	Educational Services	611513	40
RELAY TECHNICIAN	Utilities	221122	117
RELAY TESTER	Utilities	221121	21
RELAY TESTER	Utilities	221122	44
REPAIRER, RECREATIONAL VEH	Not Provided	811118	3
REPAIRER, RECREATIONAL VEH	Other Services (except Public Administration)	811198	4
REPRODUCTION TECHNICIAN	Educational Services	611513	17
REPRODUCTION TECHNICIAN	Public Administration (not covered in economic census)	922140	848
RESIDENTIAL CARPENTER	Construction	236116	1
RESIDENTIAL CARPENTER	Construction	236118	1
RESIDENTIAL CARPENTER	Construction	236220	15
RESIDENTIAL CARPENTER	Construction	238210	1
RESIDENTIAL CARPENTER	Educational Services	611513	19
RESIDENTIAL CARPENTER	Public Administration (not covered in economic census)	922140	1
RESIDENTIAL CARPENTER	Public Administration (not covered in economic census)	923130	7
RESIDENTIAL CARPENTER SPECIALIST (Existing Title: Residential Carpenter)	Construction	236116	4
RESIDENTIAL CARPENTER SPECIALIST (Existing Title: Residential Carpenter)	Construction	238130	2
RESIDENTIAL WIREMAN	Construction	237130	59
RESIDENTIAL WIREMAN	Construction	238210	2111
RESIDENTIAL WIREMAN	Educational Services	611513	84
RESIDENTIAL WIREMAN	Not Provided	811118	122
Restaurant Manager (Existing Title: Manager, Food Service)	Accommodation and Food Services	722511	39
Restaurant Manager (Existing Title: Manager, Food Service)	Educational Services	611210	22
Restaurant Manager (Existing Title: Manager, Food Service)	Educational Services	611513	8
Restaurant Manager (Existing Title: Manager, Food Service)	Public Administration (not covered in economic census)	923130	7
Retail Operations Specialist	Manufacturing	327120	24
RIGGER	Construction	237120	5
RIGGER	Educational Services	611513	116
ROOFER	Construction	236220	661

Occupation Title	Industry	NAICS Code	Active Apprentices
ROOFER	Construction	238160	29
ROOFER	Educational Services	611513	30
ROOFER	Educational Services	611519	34
ROOFER	Other Services (except Public Administration)	813910	56
SAFETY INSPECTOR/TECHNICIAN (Alternate Title: Preventive Medicine Specialist)	Construction	237310	3
SAFETY INSPECTOR/TECHNICIAN (Alternate Title: Preventive Medicine Specialist)	Educational Services	611513	120
SAFETY INSPECTOR/TECHNICIAN (Alternate Title: Preventive Medicine Specialist)	Manufacturing	325211	232
SANDBLASTER, STONE	Educational Services	611513	549
SCAFFOLD ERECTOR (Existing Title: Carpenter, Rough)	Construction	236220	748
SCAFFOLD ERECTOR (Existing Title: Carpenter, Rough)	Construction	237310	187
SCAFFOLD ERECTOR (Existing Title: Carpenter, Rough)	Construction	238350	100
SCAFFOLD ERECTOR (Existing Title: Carpenter, Rough)	Educational Services	611513	149
SCREW-MACH SET-UP OPERATOR	Manufacturing	332721	51
SCREW-MACH SET-UP OPERATOR, SINGLE	Manufacturing	332721	51
SERVICE MECHANIC (Auto Mfg)	Educational Services	611513	63
SERVICE MECHANIC (Auto Mfg)	Other Services (except Public Administration)	811111	2
SERVICE MECHANIC (Auto Mfg)	Transportation and Warehousing	481111	13
SEWING MACHINE REPAIRER	Public Administration (not covered in economic census)	922140	848
SHEET METAL WORKER	Construction	236220	859
SHEET METAL WORKER	Construction	238220	641
SHEET METAL WORKER	Construction	238290	51
SHEET METAL WORKER	Educational Services	611513	150
SHEET METAL WORKER	Educational Services	611519	34
SHEET METAL WORKER	Manufacturing	332322	50
SHEET METAL WORKER	Public Administration (not covered in economic census)	922140	848
SIGN ERECTOR I	Construction	238210	219
SOFT TILE SETTER (Const)	Construction	236220	661
SOUND TECHNICIAN	Construction	238210	415

Occupation Title	Industry	NAICS Code	Active Apprentices
SPRINKLER FITTER (Existing Title: Pipe Fitter)	Administrative and Support and Waste Management and Remediation Services	561621	13
SPRINKLER FITTER (Existing Title: Pipe Fitter)	Construction	236220	814
SPRINKLER FITTER (Existing Title: Pipe Fitter)	Construction	238220	386
SPRINKLER FITTER (Existing Title: Pipe Fitter)	Educational Services	611513	30
SPRINKLER FITTER (Existing Title: Pipe Fitter)	Public Administration (not covered in economic census)	922160	17
STATIONARY ENGINEER	Educational Services	611310	8
STATIONARY ENGINEER	Manufacturing	336110	55
STATIONARY ENGINEER	Public Administration (not covered in economic census)	922140	1
STATIONARY ENGINEER-POWER HOUSE (Existing Title: Stationary Engineer)	Administrative and Support and Waste Management and Remediation Services	561210	2
Sterile Supply Technician	Health Care and Social Assistance	622110	3265
STONEMASON	Construction	238340	1
STREET-LIGHT SERVICER	Construction	238210	593
STRUCTURAL STEEL WORKER (Alternate Titles: Ironworker or Structural Ironworker)	Construction	236220	1023
STRUCTURAL STEEL WORKER (Alternate Titles: Ironworker or Structural Ironworker)	Construction	237120	5
STRUCTURAL STEEL WORKER (Alternate Titles: Ironworker or Structural Ironworker)	Construction	238110	1
STRUCTURAL STEEL WORKER (Alternate Titles: Ironworker or Structural Ironworker)	Construction	238120	1090
STRUCTURAL STEEL WORKER (Alternate Titles: Ironworker or Structural Ironworker)	Educational Services	611513	131
STRUCTURAL STEEL WORKER (Alternate Titles: Ironworker or Structural Ironworker)	Educational Services	611519	34
STRUCTURAL STEEL WORKER (Alternate Titles: Ironworker or Structural Ironworker)	Manufacturing	332312	227

Occupation Title	Industry	NAICS Code	Active Apprentices
STRUCTURAL STEEL WORKER (Alternate Titles: Ironworker or Structural Ironworker)	Other Services (except Public Administration)	813910	56
STRUCTURAL STEEL/IRONWORKER - 3/4 YEARS	Educational Services	611513	30
STRUCTURAL STEEL/IRONWORKER (Existing Title: Structural Steel Worker)	Educational Services	611513	11
SUBSTATION OPERATOR	Construction	238210	593
SUBSTATION OPERATOR	Utilities	221121	21
SUPERVISORY CONTROL&DATA ACQ TEC	Educational Services	611310	7
Surgical Technologist	Educational Services	611513	17
Surgical Technologist	Health Care and Social Assistance	622110	3268
SURVEYOR ASSISTANT INSTRUMENT	Construction	237310	3
SURVEYOR ASSISTANT INSTRUMENT	Professional, Scientific, and Technical Services	541360	1
Systems Administrator	Educational Services	611513	9
TAPER (Alternate Title: Drywall Finisher)	Construction	236220	661
TAPER (Alternate Title: Drywall Finisher)	Construction	238310	5
TAPER (Alternate Title: Drywall Finisher)	Educational Services	611513	120
TEACHER AIDE I	Educational Services	611310	54
TEACHER AIDE I	Health Care and Social Assistance	624410	82
Technical Sales Representative	Educational Services	611513	46
Technical Sales Representative	Professional, Scientific, and Technical Services	541618	1
Technical Sales Representative	Real Estate and Rental and Leasing	531210	1
Technical Sales Specialist	Educational Services	611513	9
TELECOMMUNICATION TOWER TECHNICIAN	Construction	238210	1
TELECOMMUNICATION TOWER TECHNICIAN	Educational Services	611513	11
TELECOMMUNICATIONS TECHNICIAN (Alternate Title: Broadband Technician)	Construction	238210	468
TELECOMMUNICATIONS TECHNICIAN (Alternate Title: Broadband Technician)	Other Services (except Public Administration)	811310	15

Occupation Title	Industry	NAICS Code	Active Apprentices
TELECOMMUNICATIONS TECHNICIAN (Alternate Title: Broadband Technician)	Construction	238210	858
TELECOMMUNICATOR	Health Care and Social Assistance	622110	3265
TERRAZZO FINISHER	Construction	236220	546
TERRAZZO WORKER	Construction	236220	546
TERRAZZO WORKER	Construction	238340	1
TILE FINISHER	Construction	236220	546
TILE FINISHER	Educational Services	611513	30
TILE SETTER	Construction	236220	546
TILE SETTER	Construction	238330	2
TILE SETTER	Construction	238340	7
TILE SETTER	Other Services (except Public Administration)	813910	56
TOOL AND DIE MAKER	Educational Services	611519	2
TOOL AND DIE MAKER	Manufacturing	326199	2
TOOL AND DIE MAKER	Manufacturing	332313	1
TOOL AND DIE MAKER	Manufacturing	333924	1
TOOL AND DIE MAKER	Other Services (except Public Administration)	811310	2
TOOL MAKER	Manufacturing	336110	55
Tradeshow Worker	Administrative and Support and Waste Management and Remediation Services	561920	148
TRANSFORMER REPAIRER	Utilities	221118	58
Transmission Line Worker	Transportation and Warehousing	484121	4
TRANSMISSION MECHANIC	Public Administration (not covered in economic census)	922140	848
TRANSPORTATION CLERK (Alternate Title: Transportation Management Coordinator)	Educational Services	611513	11
TRUCK CRANE OPERATOR (Alternate Title: Crane Operator)	Educational Services	611513	150
TRUCK DRIVER, HEAVY	Educational Services	611210	431
TRUCK DRIVER, HEAVY	Educational Services	611310	209
TRUCK DRIVER, HEAVY	Educational Services	611513	57
TRUCK DRIVER, HEAVY	Manufacturing	333924	2
TRUCK DRIVER, HEAVY	Not Provided	811118	122
TRUCK DRIVER, HEAVY	Public Administration (not covered in economic census)	922140	848
TRUCK DRIVER, HEAVY	Transportation and Warehousing	484121	44

Occupation Title	Industry	NAICS Code	Active Apprentices
TRUCK DRIVER, HEAVY	Transportation and Warehousing	488510	9
TRUCK DRIVER, HEAVY (Alternate Title: Motor Transport Operator)	Administrative and Support and Waste Management and Remediation Services	562112	5
Undercar Specialist (Alternate Title: Automotive Tech Specialist)	Other Services (except Public Administration)	811111	6
User Experience Designer	Educational Services	611513	9
User Experience Designer	Professional, Scientific, and Technical Services	541613	5
Veterinary/Lab Animal Tech (Alternate Title: Animal Care Specialist)	Educational Services	611210	38
Waste Treatment Operator	Public Administration (not covered in economic census)	924110	4
Wastewater Systems Operator	Public Administration (not covered in economic census)	921190	40
Wastewater Systems Operator	Public Administration (not covered in economic census)	924110	4
Wastewater Systems Operator	Utilities	221310	5
Wastewater-treatmt - Plant Operator (Alternate Title: Water Treatment Specialist)	Public Administration (not covered in economic census)	922140	1
Water Distribution Operator	Educational Services	611513	120
Water Systems Operation Specialist	Public Administration (not covered in economic census)	924110	4
Water Systems Operation Specialist	Utilities	221310	5
Water Treatment Plant Operator	Educational Services	611310	217
Welder, Arc	Educational Services	611513	173
Welder, Arc	Educational Services	611519	34
Welder, Combination	Construction	236220	888
Welder, Combination	Construction	238220	39
Welder, Combination	Educational Services	611310	209
Welder, Combination	Educational Services	611513	207
Welder, Combination	Educational Services	611519	34
Welder, Combination	Educational Services	611699	14
Welder, Combination	Manufacturing	332722	2
Welder, Combination	Manufacturing	339999	6
Welder, Combination	Mining, Quarrying, and Oil and Gas Extraction	213112	187
Welder, Combination	Not Provided	811118	122
Welder, Combination	Other Services (except Public Administration)	813910	59
Welder, Combination	Public Administration (not covered in economic census)	922140	848

Occupation Title	Industry	NAICS Code	Active Apprentices
Welding (Existing Title: Welder, Combination)	Construction	237310	187
Welding (Existing Title: Welder, Combination)	Construction	238210	1
Welding (Existing Title: Welder, Combination)	Educational Services	611513	669
Welding Technician	Construction	238220	172
Wellness Coach	Educational Services	611513	549
Wind Turbine Technician	Construction	237990	30
Wind Turbine Technician	Utilities	221115	5
Wood Flooring Specialist	Construction	238330	8
Workforce Development Analyst	Other Services (except Public Administration)	813920	69
Workforce Development Specialist	Administrative and Support and Waste Management and Remediation Services	561330	35
Youth Development Practitioner	Educational Services	611513	549

Appendix B: Active Apprenticeships by Occupation

Occupation Title	Industry	NAICS Code	Active Apprentices
Able Seaman	Educational Services	611513	11
Able Seaman	Other Services (except Public Administration)	811310	15
Accounting Technician (Alternate Title: Accounting Specialist)	Educational Services	611210	38
Accounting Technician (Alternate title: Financial Specialist)	Educational Services	611513	722
Accounting Technician (Alternate title: Financial Specialist)	Professional, Scientific, and Technical Services	541618	1
Accounting Technician (Alternate title: Financial Specialist)	Public Administration (not covered in economic census)	923130	7
Acoustical Specialist (Existing Title: Acoustical Carpenter)	Construction	236220	681
Air Transport Pilot	Educational Services	611512	18
Airframe & Powerplant Mechanic	Transportation and Warehousing	481111	13
Ambulance Attendant (EMT)	Educational Services	611513	11
Ambulance Attendant (EMT)	Health Care and Social Assistance	622110	3265
Animal Trainer	Other Services (except Public Administration)	812910	2
Application Developer	Educational Services	611310	209
Application Developer	Educational Services	611513	26
Application Developer	Finance and Insurance	522320	3
Application Developer	Health Care and Social Assistance	624190	1
Application Developer	Other Services (except Public Administration)	811310	15
Apprenticeship Representative	Educational Services	611513	549
Assembler Installer General	Manufacturing	336411	23
Assembler, Metal Building	Construction	236210	57
Assembler, Metal Building	Educational Services	611513	30
Assembly Technician	Manufacturing	339999	17
Assembly Technician	Public Administration (not covered in economic census)	922140	848
Automobile Mechanic (Alternate Title: Light-Wheel Vehicle Mechanic)	Educational Services	611310	209
Automobile Mechanic (Alternate Title: Light-Wheel Vehicle Mechanic)	Public Administration (not covered in economic census)	922140	848

Occupation Title	Industry	NAICS Code	Active Apprentices
Automobile Mechanic (Alternate Title: Light-Wheel Vehicle Mechanic)	Utilities	221122	44
Automobile Body Repairer	Other Services (except Public Administration)	811121	38
Automobile Body Repairer	Public Administration (not covered in economic census)	922140	848
Automobile Repair-Service Estimator	Other Services (except Public Administration)	811121	38
Automobile Upholsterer	Public Administration (not covered in economic census)	922140	848
Automotive Technician Specialist	Educational Services	611699	14
Automotive Technician Specialist	Other Services (except Public Administration)	811111	1
Automotive Technician Specialist	Other Services (except Public Administration)	811121	1944
Automotive Technician Specialist	Other Services (except Public Administration)	811198	2
Automotive Technician Specialist	Public Administration (not covered in economic census)	923110	1
Automotive Technician Specialist	Retail Trade	441110	4
Automotive Technician Specialist (Alternate Title: Light-Weight Vehicle Mech)	Public Administration (not covered in economic census)	922140	848
Baker (Bake Produce)	Educational Services	611513	17
Baker (Bake Produce)	Public Administration (not covered in economic census)	922140	849
Baker (Hotel & Restaurant)	Public Administration (not covered in economic census)	922140	848
Barber	Educational Services	611513	549
Barber	Public Administration (not covered in economic census)	922140	848
Bindery Worker	Public Administration (not covered in economic census)	922140	848
Biomedical Equipment Technician	Health Care and Social Assistance	622110	3265
Boiler Operator	Public Administration (not covered in economic census)	922140	848
Boilermaker Fitter	Educational Services	611513	549
Boilermaker I	Construction	236220	362
Boilermaker II	Construction	237120	2
Boilermaker II	Educational Services	611513	120

Occupation Title	Industry	NAICS Code	Active Apprentices
Boilermaker II	Mining, Quarrying, and Oil and Gas Extraction	213112	187
Bricklayer (Construction)	Construction	236220	695
Bricklayer (Construction)	Construction	238140	3
Bricklayer (Construction)	Construction	238340	1
Bricklayer (Construction)	Educational Services	611513	30
Bricklayer (Construction)	Other Services (except Public Administration)	813910	56
Bricklayer (Construction)	Public Administration (not covered in economic census)	922140	848
Bricklayer (Existing Title: Bricklayer (Construction))	Educational Services	611513	120
Bricklayer, Firebrick & Refractory	Manufacturing	327213	11
Bridge Carpenter-Heavy Highway (Existing Title: Carpenter, Rough)	Construction	237310	3
Building Maintenance Repairer (Ex. Title: Maintenance Repairer, Building)	Educational Services	611513	606
Building Maintenance Repairer (Ex. Title: Maintenance Repairer, Building)	Manufacturing	327120	24
Building Maintenance Repairer (Ex. Title: Maintenance Repairer, Building)	Transportation and Warehousing	481111	13
Butcher, Allround	Public Administration (not covered in economic census)	922140	848
CABINETMAKER	Construction	236220	661
CABINETMAKER	Educational Services	611310	217
CABINETMAKER	Public Administration (not covered in economic census)	922140	848
CABLE INSTALLER-REPARIER (Alternate Title: Cable Systems Installer/Maintainer)	Construction	237990	30
CABLE INSTALLER-REPARIER (Alternate Title: Cable Systems Installer/Maintainer)	Construction	238210	735
CABLE INSTALLER-REPARIER (Alternate Title: Cable Systems Installer/Maintainer)	Construction	238990	455
CABLE INSTALLER-REPARIER (Alternate Title: Cable Systems Installer/Maintainer)	Utilities	221122	17

Occupation Title	Industry	NAICS Code	Active Apprentices
CABLE SPLICER	Utilities	221118	58
CABLE SPLICER	Utilities	221122	44
CAREER DEVELOPMENT TECHNICIAN	Educational Services	611513	11
CAREER DEVELOPMENT TECHNICIAN	Professional, Scientific, and Technical Services	541618	1
CARPENTER	Accommodation and Food Services	722511	39
CARPENTER	Administrative and Support and Waste Management and Remediation Services	561210	20
CARPENTER	Construction	236210	171
CARPENTER	Construction	236220	1403
CARPENTER	Construction	238110	1
CARPENTER	Construction	238160	3
CARPENTER	Construction	238350	157
CARPENTER	Educational Services	611110	238
CARPENTER	Educational Services	611310	8
CARPENTER	Educational Services	611513	205
CARPENTER	Educational Services	611519	34
CARPENTER	Manufacturing	324110	37
CARPENTER	Other Services (except Public Administration)	813910	56
CARPENTER	Public Administration (not covered in economic census)	922140	848
CARPENTER CONSTRUCTION	Educational Services	611513	29
CARPENTER, INTERIOR SYSTEMS - 3 YEARS	Construction	236210	171
CARPENTER, INTERIOR SYSTEMS (Alternate Title: Interior Systems Carpenter)	Construction	236220	758
CARPENTER, INTERIOR SYSTEMS (Alternate Title: Interior Systems Carpenter)	Construction	238350	100
CARPENTER, MAINTENANCE	Construction	236220	27
CARPENTER, MAINTENANCE	Educational Services	611310	8
CARPENTER, MAINTENANCE	Public Administration (not covered in economic census)	922140	1
CARPENTER, ROUGH	Construction	238350	100
CEMENT MASON	Construction	236220	664
CEMENT MASON	Construction	237310	3
CEMENT MASON	Construction	238110	27
CEMENT MASON	Construction	238330	2

Occupation Title	Industry	NAICS Code	Active Apprentices
CEMENT MASON	Educational Services	611513	114
CEMENT MASON	Other Services (except Public Administration)	813910	56
CEMENT MASON CONCRETE FINISHER (Existing Title: Cement Mason)	Construction	236116	1
CEMENT MASON CONCRETE FINISHER (Existing Title: Cement Mason)	Construction	236220	1
CEMENT MASON CONCRETE FINISHER (Existing Title: Cement Mason)	Other Services (except Public Administration)	813910	56
CERAMIC TILE INSTALLER (Existing Title: Tile Setter)	Construction	238340	3
Certified Dietary Manager	Administrative and Support and Waste Management and Remediation Services	561330	35
Certified Nursing Assistant (CNA)	Educational Services	611513	549
Chemical Laboratory Technician	Manufacturing	325110	8
Chemical Laboratory Technician	Manufacturing	325211	232
CHEMICAL OPERATOR III	Manufacturing	324110	94
CHEMICAL OPERATOR III	Manufacturing	325110	47
CHEMICAL OPERATOR III	Manufacturing	325211	232
CHILD CARE DEVELOPMENT SPECIALIST	Educational Services	611513	219
CHILD CARE DEVELOPMENT SPECIALIST	Health Care and Social Assistance	624410	82
CHILD CARE DEVELOPMENT SPECIALIST	Not Provided	811118	122
CHIMNEY SWEEP	Educational Services	611513	549
CNC OPERATOR - MILLING AND TURNING	Other Services (except Public Administration)	813910	3
CNC Operator and Programmer	Manufacturing	332710	2
CNC Set-Up Programmer – Milling and Turning	Manufacturing	332721	7
COACH OPERATOR	Educational Services	611513	11
COATING MACHINE OPERATOR I	Educational Services	611513	11
Commercial Drone Pilot	Not Provided	811118	122
COMMUNITY HEALTH WORKER	Educational Services	611513	549
COMMUNITY HEALTH WORKER	Health Care and Social Assistance	621610	27
COMMUNITY HEALTH WORKER	Health Care and Social Assistance	622110	7
Community Health Worker	Health Care and Social Assistance	621498	16

Occupation Title	Industry	NAICS Code	Active Apprentices
Community Health Worker	Health Care and Social Assistance	621610	5
Community Health Worker	Not Provided	811118	122
Community Health Worker	Public Administration (not covered in economic census)	923120	5
COMPOSITE PLASTIC FABRICATOR (Existing Title: Insulation Worker)	Construction	236220	176
COMPOSITE PLASTIC FABRICATOR (Existing Title: Insulation Worker)	Construction	238290	7
COMPOSITE PLASTIC FABRICATOR (Existing Title: Insulation Worker)	Construction	238310	19
COMPOSITE PLASTIC FABRICATOR (Existing Title: Insulation Worker)	Construction	238990	51
COMPOSITE PLASTIC FABRICATOR (Existing Title: Insulation Worker)	Educational Services	611310	8
COMPUTED TOMOGRAPHY (CT) TECHNICIAN	Educational Services	611210	38
COMPUTER PROGRAMMER	Construction	238220	23
COMPUTER PROGRAMMER	Professional, Scientific, and Technical Services	541511	12
COMPUTER PROGRAMMER	Public Administration (not covered in economic census)	922140	848
COMPUTER SUPPORT SPECIALIST	Educational Services	611310	209
COMPUTER SUPPORT SPECIALIST	Educational Services	611420	1
COMPUTER SUPPORT SPECIALIST	Educational Services	611513	182
COMPUTER SUPPORT SPECIALIST	Finance and Insurance	522320	3
COMPUTER SUPPORT SPECIALIST	Other Services (except Public Administration)	811310	15
COMPUTER SUPPORT SPECIALIST	Professional, Scientific, and Technical Services	541512	1
COMPUTER SUPPORT SPECIALIST-DESKTOP SUPPORT TECH	Accommodation and Food Services	722511	39
COMPUTER SUPPORT SPECIALIST-DESKTOP SUPPORT TECH	Educational Services	611310	200
COMPUTER SUPPORT SPECIALIST-DESKTOP SUPPORT TECH	Educational Services	611513	17
COMPUTER SYSTEMS ANALYST	Educational Services	611513	173
COMPUTER SYSTEMS ANALYST	Finance and Insurance	522320	3
COMPUTER-PERIPHERAL-EQUIPMENT-OP	Public Administration (not covered in economic census)	922140	848
CONSTRUCTION CRAFT LABORER	Construction	236116	4
CONSTRUCTION CRAFT LABORER	Construction	236210	57
CONSTRUCTION CRAFT LABORER	Construction	236220	1077

Occupation Title	Industry	NAICS Code	Active Apprentices
CONSTRUCTION CRAFT LABORER	Construction	237130	77
CONSTRUCTION CRAFT LABORER	Construction	237310	3
CONSTRUCTION CRAFT LABORER	Construction	237990	45
CONSTRUCTION CRAFT LABORER	Construction	238120	8
CONSTRUCTION CRAFT LABORER	Construction	238910	2
CONSTRUCTION CRAFT LABORER	Construction	238990	18
CONSTRUCTION CRAFT LABORER	Educational Services	611110	238
CONSTRUCTION CRAFT LABORER	Educational Services	611513	799
CONSTRUCTION CRAFT LABORER	Educational Services	611519	34
CONSTRUCTION CRAFT LABORER	Educational Services	611699	4
CONSTRUCTION CRAFT LABORER	Manufacturing	324110	37
CONSTRUCTION CRAFT LABORER	Public Administration (not covered in economic census)	923110	1
CONSTRUCTION DRIVER	Construction	237310	3
CONSTRUCTION DRIVER	Educational Services	611513	549
CONSTRUCTION DRIVER	Manufacturing	327320	1
CONSTRUCTION EQUIPMENT MECHANIC	Construction	237310	3
CONSTRUCTION EQUIPMENT MECHANIC	Construction	237990	30
CONSTRUCTION EQUIPMENT MECHANIC	Manufacturing	333924	2
CONSTRUCTION WORKER I	Construction	238340	1
Cook	Accommodation and Food Services	722511	3
Cook	Administrative and Support and Waste Management and Remediation Services	561330	35
Cook	Educational Services	611699	14
Cook	Public Administration (not covered in economic census)	922140	1
COOK (Any Ind) (Alternate Title: Nutrition Care Specialist)	Public Administration (not covered in economic census)	922140	1
COOK (Hotel & Restaurant)	Accommodation and Food Services	722511	3
COOK (Hotel & Restaurant)	Educational Services	611310	209
COOK (Hotel & Restaurant)	Educational Services	611513	549
COOK (Hotel & Restaurant)	Educational Services	611699	14
COOK (Hotel & Restaurant)	Public Administration (not covered in economic census)	922140	848
COOK, PASTRY (Hotel & Restaurant)	Accommodation and Food Services	722511	3

Occupation Title	Industry	NAICS Code	Active Apprentices
COOK, PASTRY (Hotel & Restaurant)	Educational Services	611513	549
COSMETOLOGIST	Other Services (except Public Administration)	812112	4
COUNSELOR	Educational Services	611513	549
COUNSELOR	Health Care and Social Assistance	621498	16
Customer Service Representative	Educational Services	611513	606
Customer Service Representative	Professional, Scientific, and Technical Services	541611	1
Customer Service Representative	Professional, Scientific, and Technical Services	541613	6
Cyber Defense Incident Responder	Professional, Scientific, and Technical Services	541511	12
Cyber Security Support Technician	Educational Services	611210	1
Cyber Security Support Technician	Educational Services	611420	2
Cyber Security Support Technician	Educational Services	611513	182
Cyber Security Support Technician	Educational Services	611710	9
Cyber Security Support Technician	Finance and Insurance	522320	3
Cyber Security Support Technician	Health Care and Social Assistance	621111	1
Cyber Security Support Technician	Not Provided	811118	122
Cyber Security Support Technician	Other Services (except Public Administration)	811310	15
Cyber Security Support Technician	Professional, Scientific, and Technical Services	541511	4
Cyber Security Support Technician	Professional, Scientific, and Technical Services	541512	5
Data Analyst	Professional, Scientific, and Technical Services	541511	12
Data Scientist	Educational Services	611513	26
DATABASE TECHNICIAN	Educational Services	611420	1
DENTAL ASSISTANT (Alternate Title: Dental Specialist)	Construction	238340	1
DENTAL ASSISTANT (Alternate Title: Dental Specialist)	Public Administration (not covered in economic census)	922140	1
DENTAL LABORATORY TECHNICIAN	Public Administration (not covered in economic census)	922140	848
DIE MAKER (Paper Goods)	Public Administration (not covered in economic census)	922140	848
DIE MAKER, TRIM	Manufacturing	336110	55
DIESEL MECHANIC	Administrative and Support and Waste Management and Remediation Services	562111	96

Occupation Title	Industry	NAICS Code	Active Apprentices
DIESEL MECHANIC	Educational Services	611210	1
DIESEL MECHANIC	Educational Services	611513	17
DIESEL MECHANIC	Educational Services	611519	1
DIESEL MECHANIC	Public Administration (not covered in economic census)	922140	848
DIESEL MECHANIC (Alternate Title: Power-Generation Equipment Repairer)	Educational Services	611513	595
DIESEL MECHANIC (Alternate Title: Power-Generation Equipment Repairer)	Transportation and Warehousing	483111	5
Digital Marketer	Educational Services	611513	549
Digital Marketer	Professional, Scientific, and Technical Services	541613	5
DIRECTOR, TELEVISION	Educational Services	611513	549
DIRECTOR, TELEVISION	Public Administration (not covered in economic census)	923130	7
DISPLAYER, MERCHANDISE	Administrative and Support and Waste Management and Remediation Services	561920	148
Dock Worker	Transportation and Warehousing	484110	1
DRAFTER, CIVIL	Public Administration (not covered in economic census)	922140	848
DRAFTER, MECHANICAL	Public Administration (not covered in economic census)	922140	848
DRILLING-MACHINE OPERATOR	Mining, Quarrying, and Oil and Gas Extraction	213112	3
DRY-WALL APPLICATOR	Construction	236220	811
DRY-WALL APPLICATOR	Construction	238160	3
DRY-WALL APPLICATOR	Construction	238310	5
DRY-WALL APPLICATOR	Educational Services	611513	30
DRY-WALL APPLICATOR	Other Services (except Public Administration)	813910	56
DRY-WALL APPLICATOR (Alternate Title: Drywall Applicator Specialist)	Educational Services	611513	11
E-COMMERCE SPECIALIST	Professional, Scientific, and Technical Services	541611	1
Early Childhood Educator	Educational Services	611310	46
Early Childhood Educator	Health Care and Social Assistance	624410	244
ELECTRIC METER INSTALLER I	Utilities	221121	21
ELECTRIC METER INSTALLER I	Utilities	221122	7
ELECTRIC METER REPAIRER	Utilities	221122	30

Occupation Title	Industry	NAICS Code	Active Apprentices
ELECTRIC METER TESTER	Utilities	221122	54
ELECTRIC MOTOR REPAIRER	Public Administration (not covered in economic census)	922140	1
ELECTRICAL APPLIANCE SERVICES	Other Services (except Public Administration)	811412	1
ELECTRICAL INSTRUMENT REPAIRER	Manufacturing	324110	94
ELECTRICAL INSTRUMENT REPAIRER	Manufacturing	325211	232
ELECTRICAL TECHNICIAN	Construction	238990	455
ELECTRICAL TECHNICIAN	Utilities	221122	16
ELECTRICIAN	Construction	238210	206
ELECTRICIAN	Educational Services	611513	260
ELECTRICIAN (Alternate Title: Interior Electrician)	Administrative and Support and Waste Management and Remediation Services	561210	20
ELECTRICIAN (Alternate Title: Interior Electrician)	Construction	236116	4
ELECTRICIAN (Alternate Title: Interior Electrician)	Construction	236210	66
ELECTRICIAN (Alternate Title: Interior Electrician)	Construction	236220	1224
ELECTRICIAN (Alternate Title: Interior Electrician)	Construction	237120	5
ELECTRICIAN (Alternate Title: Interior Electrician)	Construction	237130	119
ELECTRICIAN (Alternate Title: Interior Electrician)	Construction	238160	3
ELECTRICIAN (Alternate Title: Interior Electrician)	Construction	238210	6178
ELECTRICIAN (Alternate Title: Interior Electrician)	Construction	238220	1
ELECTRICIAN (Alternate Title: Interior Electrician)	Construction	238990	455
ELECTRICIAN (Alternate Title: Interior Electrician)	Educational Services	611110	238
ELECTRICIAN (Alternate Title: Interior Electrician)	Educational Services	611310	8
ELECTRICIAN (Alternate Title: Interior Electrician)	Educational Services	611513	802
ELECTRICIAN (Alternate Title: Interior Electrician)	Educational Services	611519	34

Occupation Title	Industry	NAICS Code	Active Apprentices
ELECTRICIAN (Alternate Title: Interior Electrician)	Educational Services	611699	65
ELECTRICIAN (Alternate Title: Interior Electrician)	Manufacturing	311999	4
ELECTRICIAN (Alternate Title: Interior Electrician)	Manufacturing	324110	325
ELECTRICIAN (Alternate Title: Interior Electrician)	Manufacturing	336110	55
ELECTRICIAN (Alternate Title: Interior Electrician)	Other Services (except Public Administration)	813410	1
ELECTRICIAN (Alternate Title: Interior Electrician)	Public Administration (not covered in economic census)	922140	848
ELECTRICIAN (Alternate Title: Interior Electrician)	Transportation and Warehousing	483111	5
ELECTRICIAN (Alternate Title: Interior Electrician)	Utilities	221122	11
ELECTRICIAN, MAINTENANCE	Construction	238210	4
ELECTRICIAN, MAINTENANCE	Manufacturing	325412	1
ELECTRICIAN, MAINTENANCE	Manufacturing	331492	4
ELECTRICIAN, MAINTENANCE	Manufacturing	332439	1
ELECTRICIAN, MAINTENANCE	Manufacturing	333924	1
ELECTRICIAN, MAINTENANCE	Manufacturing	336110	55
ELECTRICIAN, MAINTENANCE	Public Administration (not covered in economic census)	922140	1
ELECTRICIAN, MAINTENANCE	Utilities	221122	52
ELECTRICIAN, POWERHOUSE	Construction	237130	26
ELECTRICIAN, POWERHOUSE	Construction	238210	7
ELECTRICIAN, POWERHOUSE	Utilities	221122	44
ELECTRICIAN, SUBSTATION	Construction	237130	182
ELECTRICIAN, SUBSTATION	Construction	237990	30
ELECTRICIAN, SUBSTATION	Construction	238210	593
ELECTRICIAN, SUBSTATION	Manufacturing	324110	37
ELECTRICIAN, SUBSTATION	Professional, Scientific, and Technical Services	541330	117
ELECTRICIAN, SUBSTATION	Utilities	221118	58
ELECTRICIAN, SUBSTATION	Utilities	221122	526
ELECTROMECHANICAL TECHNICIAN	Manufacturing	327213	11
ELECTROMECHANICAL TECHNICIAN	Other Services (except Public Administration)	813910	3
Electromechanical Technician CB	Educational Services	611310	7

Occupation Title	Industry	NAICS Code	Active Apprentices
ELECTRONIC SYSTEMS TECH	Administrative and Support and Waste Management and Remediation Services	561621	6
ELECTRONIC SYSTEMS TECH	Construction	236220	150
ELECTRONIC SYSTEMS TECH	Construction	238210	193
ELECTRONIC UTILITY WORKER	Utilities	221122	3
ELECTRONICS TECHNICIAN	Educational Services	611310	8
ELECTRONICS TESTER	Manufacturing	339999	17
ELECTRONICS TESTER	Utilities	221122	33
ELECTRONICS UTILITY WORKER	Public Administration (not covered in economic census)	924110	4
ELEVATOR CONSTRUCTOR (Alternate Title: Elevator Constructor Mechanic)	Construction	238220	109
ELEVATOR CONSTRUCTOR (Alternate Title: Elevator Constructor Mechanic)	Construction	238290	60
ELEVATOR CONSTRUCTOR (Alternate Title: Elevator Constructor Mechanic)	Educational Services	611513	323
Emergency Medical Technician	Health Care and Social Assistance	622110	3265
ENERGY AUDITOR AND ANALYST	Educational Services	611513	5
ENERGY SPECIALIST	Educational Services	611513	11
Engineering Assistant (Aerospace Engineering)	Public Administration (not covered in economic census)	923110	1
ENVIRONMENTAL CONTROL SYST. INSTAL/SERVICES (HVAC)	Construction	236116	4
ENVIRONMENTAL CONTROL SYST. INSTAL/SERVICES (HVAC)	Construction	238220	319
ENVIRONMENTAL CONTROL SYST. INSTAL/SERVICES (HVAC)	Educational Services	611513	558
ENVIRONMENTAL CONTROL SYST. INSTAL/SERVICES (HVAC)	Educational Services	611519	34
Esthetician	Other Services (except Public Administration)	812112	3
FABRICATOR-ASSEMBLER METAL PROD	Manufacturing	339999	17
FACILITY MANAGER	Educational Services	611310	200
FARM WORKER, GENERAL I	Agriculture, Forestry, Fishing and Hunting	111998	1
Fiber Optic Technician	Educational Services	611513	11
Fiber Optic Technician	Information	518210	12
FILM OR VIDEOTAPE EDITOR	Educational Services	611513	549

Occupation Title	Industry	NAICS Code	Active Apprentices
FIRE APPARATUS ENGINEER	Manufacturing	325211	232
FIRE FIGHTER	Educational Services	611310	15
FIRE FIGHTER	Public Administration (not covered in economic census)	922160	121
FITTER I (Any Ind)	Construction	237310	187
FLOOR LAYER	Construction	236220	661
FLOOR LAYER	Construction	238150	112
FLOOR LAYER	Other Services (except Public Administration)	813910	56
FLOOR LAYER (Alternate Title: Floor Cover)	Construction	238330	2
FLOOR LAYER (Alternate Title: Floor Cover)	Construction	238350	100
FLOOR LAYER (Painters)	Construction	238330	1
FORM BUILDER (Const)	Construction	236220	873
FORM BUILDER (Const)	Construction	237310	3
FORM BUILDER CARPENTER (Existing Title: Form Builder)	Construction	236210	57
FORM BUILDER CARPENTER (Existing Title: Form Builder)	Construction	238910	2
Freight Broker	Educational Services	611513	549
FURNITURE UPHOLSTERER	Public Administration (not covered in economic census)	922140	848
GAS UTILITY WORKER	Construction	237130	573
GAS-REGULATOR REPAIRER	Not Provided	333999	3
GENERAL INSURANCE ASSOCIATE	Educational Services	611513	17
GENERAL INSURANCE ASSOCIATE	Educational Services	611699	4
GENERAL INSURANCE ASSOCIATE	Other Services (except Public Administration)	811310	15
GLASS BLOWER	Manufacturing	327212	1
GLAZIER	Construction	236220	811
GLAZIER	Construction	238150	129
GLAZIER	Construction	238320	5
GLAZIER	Educational Services	611513	30
GLAZIER	Other Services (except Public Administration)	813910	56
GRAPHIC DESIGNER	Educational Services	611513	11
GRAPHIC DESIGNER	Professional, Scientific, and Technical Services	541613	5
GRAPHIC DESIGNER	Public Administration (not covered in economic census)	922140	848
GUARD, SECURITY	Educational Services	611513	549

Occupation Title	Industry	NAICS Code	Active Apprentices
HAIR STYLIST (Existing Title: Cosmetologist)	Educational Services	611511	2
HAZARDOUS-WASTE MATERIAL TECHNICIAN	Construction	237130	573
HEALTH INFORMATION MANAGEMENT DATA ANALYST	Finance and Insurance	524298	109
HEALTH INFORMATION MANAGEMENT HOSPITAL CODER	Finance and Insurance	524298	109
HEALTH INFORMATION TECHNOLOGY SPECIALIST	Finance and Insurance	524298	109
HEALTH INFORMATION TECHNOLOGY SPECIALIST	Health Care and Social Assistance	621111	1
HEALTH SUPPORT SPECIALIST (Existing Title: Home Health Aide)	Administrative and Support and Waste Management and Remediation Services	561330	35
HEATING & AIR CONDITIONING MECHANIC & INSTALLER	Construction	236220	58
HEATING & AIR CONDITIONING MECHANIC & INSTALLER	Construction	238220	16
HEATING & AIR CONDITIONING MECHANIC & INSTALLER	Educational Services	611310	209
HEATING & AIR CONDITIONING MECHANIC & INSTALLER	Educational Services	611513	102
HEATING & AIR CONDITIONING MECHANIC & INSTALLER	Manufacturing	332322	22
HEATING & AIR CONDITIONING MECHANIC & INSTALLER	Not Provided	811118	122
HEATING & AIR-CONDITIONER INSTALL/SER	Administrative and Support and Waste Management and Remediation Services	561210	20
HEATING & AIR-CONDITIONER INSTALL/SER	Construction	236220	831
HEATING & AIR-CONDITIONER INSTALL/SER	Construction	238210	1
HEATING & AIR-CONDITIONER INSTALL/SER	Construction	238220	484
HEATING & AIR-CONDITIONER INSTALL/SER	Construction	238290	35
HEATING & AIR-CONDITIONER INSTALL/SER	Educational Services	611310	208
HEATING & AIR-CONDITIONER INSTALL/SER	Educational Services	611513	116

Occupation Title	Industry	NAICS Code	Active Apprentices
HEATING & AIR-CONDITIONER INSTALL/SER	Educational Services	611519	34
HEATING & AIR-CONDITIONER INSTALL/SER	Educational Services	611699	14
HEATING & AIR-CONDITIONER INSTALL/SER	Public Administration (not covered in economic census)	922140	849
HEATING, VENTILATION, AIR CONIDTIONING (Ex. Tit: Heating&Air Cond. Inst/Ser)	Construction	238220	1097
HEATING, VENTILATION, AIR CONIDTIONING (Ex. Tit: Heating&Air Cond. Inst/Ser)	Educational Services	611513	120
Heavy and Tractor Trailer Truck Driver	Other Services (except Public Administration)	812112	2
Heavy and Tractor Trailer Truck Driver	Transportation and Warehousing	484110	1
HELP DESK TECHNICIAN	Other Services (except Public Administration)	813410	1
HOME HEALTH AIDE (CB)	Educational Services	611210	22
HOME HEALTH AIDE (CB)	Health Care and Social Assistance	621610	1
HOME HEALTH DIRECTOR	Administrative and Support and Waste Management and Remediation Services	561330	35
Home Health Director (CB)	Health Care and Social Assistance	622110	3265
HOME PERFORMANCE LABORER (Residential)	Public Administration (not covered in economic census)	921190	40
Home Performance Laborer Residential, Revised	Educational Services	611513	11
Horizontal Directional Drill Operator	Utilities	221122	6
HORTICULTURIST	Educational Services	611310	209
HORTICULTURIST	Public Administration (not covered in economic census)	922140	849
HOTEL ASSOCIATE	Educational Services	611310	200
HOUSEKEEPER, COM, RES, IND	Educational Services	611699	4
HYDRO BLASTER/VACUUM TECHNICIAN	Construction	238150	112
HYDRO BLASTER/VACUUM TECHNICIAN	Mining, Quarrying, and Oil and Gas Extraction	213112	28
INDUSTRIAL MACHINIST SYSTEM TECHNICIAN	Manufacturing	325211	232
INDUSTRIAL MACHINIST SYSTEM TECHNICIAN	Other Services (except Public Administration)	811310	149

Occupation Title	Industry	NAICS Code	Active Apprentices
INDUSTRIAL MACHINIST SYSTEM TECHNICIAN	Professional, Scientific, and Technical Services	541860	2
Industrial Maintenance Mechanic	Educational Services	611310	200
Industrial Maintenance Mechanic	Information	518210	1
Industrial Maintenance Mechanic	Manufacturing	311999	4
Industrial Maintenance Mechanic	Manufacturing	326199	33
Industrial Maintenance Mechanic	Manufacturing	339999	17
Industrial Maintenance Mechanic	Other Services (except Public Administration)	811310	24
Industrial Maintenance Mechanic	Other Services (except Public Administration)	812332	3
Industrial Manufacturing Technician	Educational Services	611513	11
Industrial Manufacturing Technician	Manufacturing	334413	10
Industrial Sewing Machine Operator	Educational Services	611310	7
Information Technology Specialist	Educational Services	611310	200
INJECTION MOLDING MACHINE OPERATOR	Manufacturing	325211	5
INJECTION-MOLDING-MACHINIST OPERATOR	Manufacturing	333511	9
INJECTION-MOLDING-MACHINIST OPERATOR	Public Administration (not covered in economic census)	922140	848
INSPECTOR, BUILDING	Construction	238220	14
INSPECTOR, PRECISION	Manufacturing	332722	2
INSTRUMENT MECHANIC (Any Ind)	Construction	236220	150
INSTRUMENT MECHANIC (Any Ind)	Educational Services	611513	30
INSTRUMENT MECHANIC (Any Ind)	Manufacturing	325211	232
INSTRUMENT TECHNICIAN (Utilities)	Manufacturing	325110	8
INSTRUMENT TECHNICIAN (Utilities)	Utilities	221122	44
Instrumentation & Controls Technician	Educational Services	611513	11
Instrumentation & Controls Technician	Manufacturing	325110	10
INSTRUMENTATION TECHNICIAN	Manufacturing	324110	231
INSULATION WORKER	Construction	236220	863
INSULATION WORKER	Construction	238290	1

Occupation Title	Industry	NAICS Code	Active Apprentices
INSULATION WORKER	Construction	238310	5
INSULATION WORKER	Construction	238990	25
INSULATION WORKER	Educational Services	611513	161
IT Generalist	Educational Services	611513	9
IT Generalist	Educational Services	611710	9
IT Generalist	Health Care and Social Assistance	621610	25
IT Generalist	Professional, Scientific, and Technical Services	541519	1
IT Generalist	Professional, Scientific, and Technical Services	541611	1
IT PROJECT MANAGER	Educational Services	611420	1
IT PROJECT MANAGER	Management of Companies and Enterprises	551112	60
IT PROJECT MANAGER	Professional, Scientific, and Technical Services	541613	5
K-12 Teacher	Educational Services	611110	33
K-12 Teacher	Educational Services	611310	46
LABORATORY ASSISTANT	Utilities	221122	44
LABORATORY TECHNICIAN	Manufacturing	324110	325
LABORATORY TECHNICIAN	Manufacturing	325110	47
LABORATORY TESTER	Manufacturing	324110	94
LANDSCAPE MANAGEMENT TECHNICIAN	Accommodation and Food Services	722511	39
LANDSCAPE MANAGEMENT TECHNICIAN	Administrative and Support and Waste Management and Remediation Services	561730	10
LANDSCAPE MANAGEMENT TECHNICIAN	Educational Services	611513	46
LANDSCAPE TECHNICIAN	Administrative and Support and Waste Management and Remediation Services	561730	1
LANDSCAPE TECHNICIAN	Educational Services	611513	549
LANDSCAPE TECHNICIAN	Public Administration (not covered in economic census)	922140	849
LATHER (Alternate Title: Lathing Specialist)	Construction	238350	100
LIGHT TECHNICIAN	Educational Services	611513	549
LINE ERECTOR (POWER-LINE DISTRIBUTION ERECTOR)	Construction	237130	94
LINE ERECTOR (POWER-LINE DISTRIBUTION ERECTOR)	Construction	238210	593
LINE ERECTOR (POWER-LINE DISTRIBUTION ERECTOR)	Utilities	221112	6

Occupation Title	Industry	NAICS Code	Active Apprentices
LINE ERECTOR (POWER-LINE DISTRIBUTION ERECTOR)	Utilities	221118	58
LINE ERECTOR (POWER-LINE DISTRIBUTION ERECTOR)	Utilities	221122	161
LINE INSTALLER-REPAIRER	Construction	237130	763
LINE INSTALLER-REPAIRER	Manufacturing	324110	37
LINE INSTALLER-REPAIRER	Utilities	221112	18
LINE INSTALLER-REPAIRER	Utilities	221121	21
LINE INSTALLER-REPAIRER	Utilities	221122	803
LINE MAINTAINER (Alternate Title: High Voltage Electrician)	Construction	236210	57
LINE MAINTAINER (Alternate Title: High Voltage Electrician)	Construction	237130	924
LINE MAINTAINER (Alternate Title: High Voltage Electrician)	Professional, Scientific, and Technical Services	541330	117
LINE MAINTAINER (Alternate Title: High Voltage Electrician)	Public Administration (not covered in economic census)	921110	5
LINE MAINTAINER (Alternate Title: High Voltage Electrician)	Utilities	221122	427
LINE REPAIRER	Utilities	221122	170
LOCKSMITH	Educational Services	611310	8
LONG TERM CARE NURSE MANAGEMENT	Administrative and Support and Waste Management and Remediation Services	561330	35
MACHINE OPERATOR I	Educational Services	611513	11
MACHINE OPERATOR I	Manufacturing	325211	232
MACHINE REPAIRER, MAINTENANCE	Manufacturing	333924	1
MACHINE REPAIRER, MAINTENANCE	Manufacturing	336110	55
MACHINE SET-UP OPERATOR	Manufacturing	325211	232
MACHINIST	Educational Services	611513	53
MACHINIST	Manufacturing	332216	1
MACHINIST	Manufacturing	333132	8
MACHINIST (Alternate Title: Precision Machinist)	Educational Services	611310	200
MACHINIST (Alternate Title: Precision Machinist)	Educational Services	611513	173
MACHINIST (Alternate Title: Precision Machinist)	Educational Services	611519	2
MACHINIST (Alternate Title: Precision Machinist)	Manufacturing	324110	325

Occupation Title	Industry	NAICS Code	Active Apprentices
MACHINIST (Alternate Title: Precision Machinist)	Manufacturing	332710	3
MACHINIST (Alternate Title: Precision Machinist)	Manufacturing	339999	6
MACHINIST (Alternate Title: Precision Machinist)	Public Administration (not covered in economic census)	922140	848
MACHINIST (Alternate Title: Precision Machinist)	Manufacturing	332721	51
MAGNETIC RESONANCE IMAGING TECH	Educational Services	611210	38
MAGNETIC RESONANCE IMAGING TECH	Health Care and Social Assistance	622110	3
MAINT MECHANIC (Any Ind) (Alternate Title: Industrial Maintenance Mechanic)	Manufacturing	324110	325
MAINT MECHANIC (Any Ind) (Alternate Title: Industrial Maintenance Mechanic)	Manufacturing	325211	232
MAINT MECHANIC (Any Ind) (Alternate Title: Industrial Maintenance Mechanic)	Manufacturing	327213	11
MAINT MECHANIC (Any Ind) (Alternate Title: Industrial Maintenance Mechanic)	Public Administration (not covered in economic census)	922140	849
MAINT MECHANIC (Any Ind) (Alternate Title: Industrial Maintenance Mechanic)	Utilities	221122	44
MAINT MECHANIC (Const; Petrol) (Alternate Title: Heavy-Wheel Vehicle Mechanic)	Manufacturing	324110	94
MAINTENANCE MACHINIST	Manufacturing	327213	11
MAINTENANCE REPAIRER, BUILD	Educational Services	611310	8
MAINTENANCE REPAIRER, BUILD	Information	518210	1
MAINTENANCE REPAIRER, BUILD	Manufacturing	324110	94
MAINTENANCE REPAIRER, BUILD	Manufacturing	326199	2
MAINTENANCE REPAIRER, BUILD	Manufacturing	332721	51
MAINTENANCE REPAIRER, BUILD	Public Administration (not covered in economic census)	922140	849
MAINTENANCE REPAIRER, INDUSTRIAL	Manufacturing	326112	1
MAINTENANCE REPAIRER, INDUSTRIAL	Manufacturing	327213	11

Occupation Title	Industry	NAICS Code	Active Apprentices
Management Systems Auditor	Public Administration (not covered in economic census)	923110	4
MANAGER, RETAIL STORE	Retail Trade	459999	1
MANAGER, RETAIL STORE (Store Manager - 3 Level Career Lattice)	Retail Trade	456110	35
MARBLE FINISHER	Construction	236220	546
MARBLE FINISHER	Construction	238990	11
MARBLE SETTER	Construction	236220	546
MATERIAL COORDINATOR (Alt Titles: Automated Logistical /Unit Supply Specialists)	Educational Services	611513	606
MATERIAL COORDINATOR (Alt Titles: Automated Logistical /Unit Supply Specialists)	Educational Services	611699	4
MATERIAL COORDINATOR (Alt Titles: Automated Logistical /Unit Supply Specialists)	Manufacturing	325211	232
MECHANIC, INDUSTRIAL TRUCK (Alternate Titles: Diesel Mech/Power-Gen Equip Rep)	Public Administration (not covered in economic census)	922140	848
Mechanical Engineering Technician	Manufacturing	336390	14
Mechatronics Technician	Educational Services	611210	1
Mechatronics Technician	Educational Services	611513	722
Mechatronics Technician	Manufacturing	333248	19
Mechatronics Technician	Manufacturing	336390	14
Mechatronics Technician	Manufacturing	339999	17
Medical Assistant	Educational Services	611210	22
Medical Assistant	Health Care and Social Assistance	621111	4
Medical Assistant	Health Care and Social Assistance	622110	3440
Medical Assistant	Public Administration (not covered in economic census)	923130	7
MEDICAL CODER (Alternate Title: Patient Administration Specialist)	Educational Services	611513	549
MEDICAL CODER (Alternate Title: Patient Administration Specialist)	Professional, Scientific, and Technical Services	541611	20
Medical Record and Health Information Technician/Medical Coders	Administrative and Support and Waste Management and Remediation Services	561330	35
Medical Record and Health Information Technician/Medical Coders	Educational Services	611513	549

Occupation Title	Industry	NAICS Code	Active Apprentices
MEDICAL SECRETARY	Health Care and Social Assistance	621111	3
METAL FABRICATOR	Manufacturing	324110	94
METAL FABRICATOR	Public Administration (not covered in economic census)	922140	848
METER REPAIRER (Any Ind)	Utilities	221122	168
MILLWRIGHT	Construction	236210	171
MILLWRIGHT	Construction	236220	935
MILLWRIGHT	Construction	238350	100
MILLWRIGHT	Educational Services	611310	8
MILLWRIGHT	Educational Services	611513	225
MILLWRIGHT	Manufacturing	325110	18
MILLWRIGHT	Manufacturing	333611	27
MILLWRIGHT	Manufacturing	336110	55
MOLD MAKER, DIE-CAST & PLASTIC	Educational Services	611519	2
MOLD MAKER, DIE-CAST & PLASTIC	Manufacturing	327213	14
MOTOR-GRADER OPERATOR	Construction	238210	7
MOTOR-GRADER OPERATOR	Construction	238910	7
Network And Computer Systems Administrator (Alternate Title: IT Specialist)	Educational Services	611513	731
Network And Computer Systems Administrator (Alternate Title: IT Specialist)	Other Services (except Public Administration)	811310	15
Network Support Technician	Professional, Scientific, and Technical Services	541512	1
NON-BAT REGISTERED DOT'S	Construction	236220	546
Numerical Control Machnist Oper	Educational Services	611210	1
Numerical Control Machnist Oper	Manufacturing	332722	2
Nurse Assistant	Health Care and Social Assistance	621610	1
Nurse Assistant	Health Care and Social Assistance	622110	175
Nurse Assistant	Other Services (except Public Administration)	813410	1
Nurse Assistant	Public Administration (not covered in economic census)	923120	7
Nurse Assistant Certified (CB)	Educational Services	611210	60
Nurse Assistant Certified (CB)	Health Care and Social Assistance	622110	3265
Nurse Assistant Certified (CB)	Not Provided	811118	122
Nurse Assistant Certified (Existing Title: Nurse Assistant)	Administrative and Support and Waste Management and Remediation Services	561330	35

Occupation Title	Industry	NAICS Code	Active Apprentices
Nurse Assistant Certified (Existing Title: Nurse Assistant)	Educational Services	611210	22
Nurse Assistant Certified (Existing Title: Nurse Assistant)		611513	17
Nurse Assistant Certified (Existing Title: Nurse Assistant)	Health Care and Social Assistance	621610	15
Nurse Assistant Certified (Existing Title: Nurse Assistant)		622110	3268
Nurse, Licensed Practical	Administrative and Support and Waste Management and Remediation Services	561330	35
Nurse, Licensed Practical	Health Care and Social Assistance	622110	13
Office Manager/Admin Services	Construction	237310	3
Office Manager/Admin Services	Health Care and Social Assistance	621111	1
Office Manager/Admin Services	Not Provided	811118	122
Office Manager/Admin Services	Other Services (except Public Administration)	811121	10
Office Manager/Admin Services		812112	3
Office Manager/Admin Services	Professional, Scientific, and Technical Services	541618	1
Office Manager/Admin Services		541930	1
Office Manager/Admin Services	Real Estate and Rental and Leasing	531210	1
OFFSET PLATE MAKER	Public Administration (not covered in economic census)	922140	848
Offset Press Op Dial	Public Administration (not covered in economic census)	922140	848
OFFSET-PRESS OPERATOR I	Public Administration (not covered in economic census)	922140	848
OIL FIELD EQUIP MECHANIC	Educational Services	611513	30
OIL FIELD EQUIP MECHANIC(Op I Frac-Acd	Educational Services	611210	1
OIL FIELD EQUIP MECHANIC(Op I Frac-Acd	Educational Services	611513	11
OPERATING ENGINEER	Administrative and Support and Waste Management and Remediation Services	562119	2
OPERATING ENGINEER	Construction	236210	110
OPERATING ENGINEER	Construction	236220	36
OPERATING ENGINEER	Construction	237130	75
OPERATING ENGINEER	Construction	237990	30
OPERATING ENGINEER	Construction	238910	7
OPERATING ENGINEER	Educational Services	611513	29
OPERATING ENGINEER	Educational Services	611519	34

Occupation Title	Industry	NAICS Code	Active Apprentices
OPERATING ENGINEER	Manufacturing	324110	37
OPERATING ENGINEER	Other Services (except Public Administration)	813910	56
OPERATING ENGINEER (Alternate Title: Heavy Construction Equipment Mechanic)	Construction	236210	53
OPERATING ENGINEER (Alternate Title: Heavy Construction Equipment Mechanic)	Construction	236220	665
OPERATING ENGINEER (Alternate Title: Heavy Construction Equipment Mechanic)	Construction	237120	5
OPERATING ENGINEER (Alternate Title: Heavy Construction Equipment Mechanic)	Construction	237310	3
OPERATING ENGINEER (Alternate Title: Heavy Construction Equipment Mechanic)	Construction	238190	1
OPERATING ENGINEER (Alternate Title: Heavy Construction Equipment Mechanic)	Construction	238910	2
OPERATING ENGINEER (Alternate Title: Heavy Construction Equipment Mechanic)	Educational Services	611513	30
OPERATING ENGINEER (Alternate Title: Heavy Construction Equipment Mechanic)	Other Services (except Public Administration)	811310	1
OPERATING ENGINEER (Alternate Title: Heavy Construction Equipment Mechanic)	Utilities	221122	44
Operations Management	Educational Services	611310	7
Organic Vegetable Farm Manager	Not Provided	811118	122
PAINTER (Const)	Construction	236116	4
PAINTER (Const)	Construction	236220	814
PAINTER (Const)	Construction	237310	187
PAINTER (Const)	Construction	238150	112
PAINTER (Const)	Construction	238310	5
PAINTER (Const)	Construction	238320	5
PAINTER (Const)	Educational Services	611310	8
PAINTER (Const)	Educational Services	611513	30
PAINTER (Const)	Other Services (except Public Administration)	813910	56

Occupation Title	Industry	NAICS Code	Active Apprentices
PAINTER (Const)	Public Administration (not covered in economic census)	922140	1
PAINTER (Professional and Kindred)	Construction	238160	3
PAINTER, HAND (Any Ind)	Educational Services	611513	9
PAINTER, INDUST COATING AND LINING APP SPECIALIST	Construction	236220	202
PAINTER, INDUST COATING AND LINING APP SPECIALIST	Construction	238150	112
PAINTER, INDUST COATING AND LINING APP SPECIALIST	Educational Services	611513	150
PAINTER, TRANS EQUIPMENT	Construction	238130	2
PAINTER, TRANS EQUIPMENT	Other Services (except Public Administration)	811121	10
PARALEGAL (Alternate Title: Paralegal Specialist)	Professional, Scientific, and Technical Services	541511	12
PARAMEDIC (Alternate Title: Health Care Specialist)	Health Care and Social Assistance	622110	3265
PARAMEDIC (Alternate Title: Health Care Specialist)	Public Administration (not covered in economic census)	922160	18
PATTERNMAKER, PLASTICS	Manufacturing	326199	33
PEER SPECIALIST	Other Services (except Public Administration)	813920	4
PERSONNEL SYSTEMS MANAGEMENT (3S0X2)	Construction	236220	202
PERSONNEL SYSTEMS MANAGEMENT (3S0X2)	Educational Services	611513	549
PHARMACIST ASSISTANT (Alternate Title: Pharmacy Technician)	Educational Services	611513	17
PHARMACY SUPPORT STAFF (Alternate Title: Pharmacy Specialist)	Health Care and Social Assistance	621111	1
PHARMACY SUPPORT STAFF (Alternate Title: Pharmacy Specialist)	Health Care and Social Assistance	622110	3265
PHARMACY SUPPORT STAFF (Alternate Title: Pharmacy Specialist)	Retail Trade	456110	35
PHARMACY TECHNICIAN, RETAIL STORE (Existing Title: Pharmacist Assistant)	Transportation and Warehousing	484121	4

Occupation Title	Industry	NAICS Code	Active Apprentices
Pharmacy Technician, Retail Store (Revised)	Administrative and Support and Waste Management and Remediation Services	561330	35
Pharmacy Technician, Retail Store (Revised)	Educational Services	611513	549
Phlebotomist	Educational Services	611310	200
Phlebotomist	Educational Services	611513	566
Phlebotomist	Health Care and Social Assistance	622110	3265
Phlebotomist	Not Provided	811118	122
PHOTOCOMPOSING-PERFORAT-MA	Educational Services	611513	549
PHOTOTYPESETTER OPERATOR	Public Administration (not covered in economic census)	922140	848
PILE DRIVER OPERATOR	Construction	236220	546
PINSETTER MECH, AUTOMATIC	Construction	237990	30
PIPE FITTER - SPRINKLER FITTER	Construction	238220	9
PIPE FITTER - SPRINKLER FITTER	Other Services (except Public Administration)	813910	56
PIPE FITTER (Construction)	Administrative and Support and Waste Management and Remediation Services	561621	13
PIPE FITTER (Construction)	Construction	236220	1066
PIPE FITTER (Construction)	Construction	237120	5
PIPE FITTER (Construction)	Construction	237310	187
PIPE FITTER (Construction)	Construction	238220	2292
PIPE FITTER (Construction)	Construction	238290	35
PIPE FITTER (Construction)	Educational Services	611310	8
PIPE FITTER (Construction)	Educational Services	611513	289
PIPE FITTER (Construction)	Educational Services	611519	34
PIPE FITTER (Construction)	Manufacturing	332322	22
PIPE FITTER (Construction)	Manufacturing	336110	55
PIPE FITTER (Construction)	Mining, Quarrying, and Oil and Gas Extraction	213112	187
PIPE FITTER (Construction)	Public Administration (not covered in economic census)	922160	2
PIPE FITTER (Construction)	Utilities	221113	2
PIPE FITTER (Existing Title: Pipe Fitter (Construction))	Construction	238220	351
Pipe Fitter-Sprinkler Fitter	Construction	238220	14
PIPEFITTING	Manufacturing	324110	37
PLANT OPERATOR	Not Provided	453910	59
PLASTERER	Construction	236220	661
PLASTERER	Construction	238110	25

Occupation Title	Industry	NAICS Code	Active Apprentices
PLASTERER	Construction	238310	5
PLUMBER	Administrative and Support and Waste Management and Remediation Services	561210	20
PLUMBER	Construction	236116	4
PLUMBER	Construction	236220	961
PLUMBER	Construction	238210	1
PLUMBER	Construction	238220	2549
PLUMBER	Educational Services	611110	238
PLUMBER	Educational Services	611310	8
PLUMBER	Educational Services	611513	283
PLUMBER	Educational Services	611519	34
PLUMBER	Manufacturing	332322	22
PLUMBER	Not Provided	811118	122
PLUMBER	Public Administration (not covered in economic census)	922140	849
POWER-PLANT OPERATOR	Educational Services	611310	8
POWER-PLANT OPERATOR	Utilities	221122	44
POWERHOUSE MECHANIC	Manufacturing	325110	8
PRECISION ASSEMBLER, BENCH	Manufacturing	339999	17
Production Cook	Accommodation and Food Services	722511	3
Professional Brewer	Educational Services	611310	200
Project Manager	Educational Services	611513	120
Propane Service Technician	Other Services (except Public Administration)	811412	1
PROTECTIVE-SIGNAL INSTALLER	Administrative and Support and Waste Management and Remediation Services	561612	9
PROTECTIVE-SIGNAL INSTALLER	Administrative and Support and Waste Management and Remediation Services	561621	1
PUBLIC HEALTH INFORMATICIAN (CDC)	Health Care and Social Assistance	622110	3265
PUMPER-GAUGER	Manufacturing	325211	232
Quality Control Inspector	Educational Services	611519	2
Quality Control Inspector	Manufacturing	325110	8
Quality Control Technician	Manufacturing	332710	2
Quality Control Technician	Manufacturing	332721	51
Quality Control Technician	Public Administration (not covered in economic census)	922140	1
REFINERY OPERATOR	Manufacturing	324110	231
REFINERY OPERATOR	Manufacturing	325110	18

Occupation Title	Industry	NAICS Code	Active Apprentices
REFRIGERATION AND AIR CONDITIONING MAINTENANCE (Existing Title: Refrigeration Mechanic)	Construction	238220	147
REFRIGERATION MECHANIC (Any Ind)	Construction	238220	554
REFRIGERATION MECHANIC (Any Ind)	Educational Services	611310	8
Registered Nurse	Educational Services	611513	17
Registered Nurse	Health Care and Social Assistance	622110	36
Registered Nurse	Other Services (except Public Administration)	811310	15
Registered Nurse Resident	Educational Services	611513	17
Registered Nurse Resident	Health Care and Social Assistance	622110	3333
REINFORCING IRONWORKER CONCRETE (Existing Title: Reinforcing Metal Worker)	Construction	236220	212
REINFORCING IRONWORKER CONCRETE (Existing Title: Reinforcing Metal Worker)	Educational Services	611513	40
RELAY TECHNICIAN	Utilities	221122	117
RELAY TESTER	Utilities	221121	21
RELAY TESTER	Utilities	221122	44
REPAIRER, RECREATIONAL VEH	Not Provided	811118	3
REPAIRER, RECREATIONAL VEH	Other Services (except Public Administration)	811198	4
REPRODUCTION TECHNICIAN	Educational Services	611513	17
REPRODUCTION TECHNICIAN	Public Administration (not covered in economic census)	922140	848
RESIDENTIAL CARPENTER	Construction	236116	1
RESIDENTIAL CARPENTER	Construction	236118	1
RESIDENTIAL CARPENTER	Construction	236220	15
RESIDENTIAL CARPENTER	Construction	238210	1
RESIDENTIAL CARPENTER	Educational Services	611513	19
RESIDENTIAL CARPENTER	Public Administration (not covered in economic census)	922140	1
RESIDENTIAL CARPENTER	Public Administration (not covered in economic census)	923130	7
RESIDENTIAL CARPENTER SPECIALIST (Existing Title: Residential Carpenter)	Construction	236116	4

Occupation Title	Industry	NAICS Code	Active Apprentices
RESIDENTIAL CARPENTER SPECIALIST (Existing Title: Residential Carpenter)	Construction	238130	2
RESIDENTIAL WIREMAN	Construction	237130	59
RESIDENTIAL WIREMAN	Construction	238210	2111
RESIDENTIAL WIREMAN	Educational Services	611513	84
RESIDENTIAL WIREMAN	Not Provided	811118	122
Restaurant Manager (Existing Title: Manager, Food Service)	Accommodation and Food Services	722511	39
Restaurant Manager (Existing Title: Manager, Food Service)	Educational Services	611210	22
Restaurant Manager (Existing Title: Manager, Food Service)		611513	8
Restaurant Manager (Existing Title: Manager, Food Service)	Public Administration (not covered in economic census)	923130	7
Retail Operations Specialist	Manufacturing	327120	24
RIGGER	Construction	237120	5
RIGGER	Educational Services	611513	116
ROOFER	Construction	236220	661
ROOFER		238160	29
ROOFER	Educational Services	611513	30
ROOFER		611519	34
ROOFER	Other Services (except Public Administration)	813910	56
SAFETY INSPECTOR/TECHNICIAN (Alternate Title: Preventive Medicine Specialist)	Construction	237310	3
SAFETY INSPECTOR/TECHNICIAN (Alternate Title: Preventive Medicine Specialist)	Educational Services	611513	120
SAFETY INSPECTOR/TECHNICIAN (Alternate Title: Preventive Medicine Specialist)	Manufacturing	325211	232
SANDBLASTER, STONE	Educational Services	611513	549
SCAFFOLD ERECTOR (Existing Title: Carpenter, Rough)	Construction	236220	748
SCAFFOLD ERECTOR (Existing Title: Carpenter, Rough)	Construction	237310	187
SCAFFOLD ERECTOR (Existing Title: Carpenter, Rough)	Construction	238350	100
SCAFFOLD ERECTOR (Existing Title: Carpenter, Rough)	Educational Services	611513	149

Occupation Title	Industry	NAICS Code	Active Apprentices
SCREW-MACH SET-UP OPERATOR	Manufacturing	332721	51
SCREW-MACH SET-UP OPERATOR, SINGLE	Manufacturing	332721	51
SERVICE MECHANIC (Auto Mfg)	Educational Services	611513	63
SERVICE MECHANIC (Auto Mfg)	Other Services (except Public Administration)	811111	2
SERVICE MECHANIC (Auto Mfg)	Transportation and Warehousing	481111	13
SEWING MACHINE REPAIRER	Public Administration (not covered in economic census)	922140	848
SHEET METAL WORKER	Construction	236220	859
SHEET METAL WORKER	Construction	238220	641
SHEET METAL WORKER	Construction	238290	51
SHEET METAL WORKER	Educational Services	611513	150
SHEET METAL WORKER	Educational Services	611519	34
SHEET METAL WORKER	Manufacturing	332322	50
SHEET METAL WORKER	Public Administration (not covered in economic census)	922140	848
SIGN ERECTOR I	Construction	238210	219
SOFT TILE SETTER (Const)	Construction	236220	661
SOUND TECHNICIAN	Construction	238210	415
SPRINKLER FITTER (Existing Title: Pipe Fitter)	Administrative and Support and Waste Management and Remediation Services	561621	13
SPRINKLER FITTER (Existing Title: Pipe Fitter)	Construction	236220	814
SPRINKLER FITTER (Existing Title: Pipe Fitter)		238220	386
SPRINKLER FITTER (Existing Title: Pipe Fitter)	Educational Services	611513	30
SPRINKLER FITTER (Existing Title: Pipe Fitter)	Public Administration (not covered in economic census)	922160	17
STATIONARY ENGINEER	Educational Services	611310	8
STATIONARY ENGINEER	Manufacturing	336110	55
STATIONARY ENGINEER	Public Administration (not covered in economic census)	922140	1
STATIONARY ENGINEER-POWER HOUSE (Existing Title: Stationary Engineer)	Administrative and Support and Waste Management and Remediation Services	561210	2
Sterile Supply Technician	Health Care and Social Assistance	622110	3265
STONEMASON	Construction	238340	1
STREET-LIGHT SERVICER	Construction	238210	593

Occupation Title	Industry	NAICS Code	Active Apprentices
STRUCTURAL STEEL WORKER (Alternate Titles: Ironworker or Structural Ironworker)	Construction	236220	1023
STRUCTURAL STEEL WORKER (Alternate Titles: Ironworker or Structural Ironworker)	Construction	237120	5
STRUCTURAL STEEL WORKER (Alternate Titles: Ironworker or Structural Ironworker)	Construction	238110	1
STRUCTURAL STEEL WORKER (Alternate Titles: Ironworker or Structural Ironworker)	Construction	238120	1090
STRUCTURAL STEEL WORKER (Alternate Titles: Ironworker or Structural Ironworker)	Educational Services	611513	131
STRUCTURAL STEEL WORKER (Alternate Titles: Ironworker or Structural Ironworker)	Educational Services	611519	34
STRUCTURAL STEEL WORKER (Alternate Titles: Ironworker or Structural Ironworker)	Manufacturing	332312	227
STRUCTURAL STEEL WORKER (Alternate Titles: Ironworker or Structural Ironworker)	Other Services (except Public Administration)	813910	56
STRUCTURAL STEEL/IRONWORKER - 3/4 YEARS	Educational Services	611513	30
STRUCTURAL STEEL/IRONWORKER (Existing Title: Structural Steel Worker)	Educational Services	611513	11
SUBSTATION OPERATOR	Construction	238210	593
SUBSTATION OPERATOR	Utilities	221121	21
SUPERVISORY CONTROL&DATA ACQ TEC	Educational Services	611310	7
Surgical Technologist	Educational Services	611513	17
Surgical Technologist	Health Care and Social Assistance	622110	3268
SURVEYOR ASSISTANT INSTRUMENT	Construction	237310	3
SURVEYOR ASSISTANT INSTRUMENT	Professional, Scientific, and Technical Services	541360	1
Systems Administrator	Educational Services	611513	9
TAPER (Alternate Title: Drywall Finisher)	Construction	236220	661

Occupation Title	Industry	NAICS Code	Active Apprentices
TAPER (Alternate Title: Drywall Finisher)	Construction	238310	5
TAPER (Alternate Title: Drywall Finisher)	Educational Services	611513	120
TEACHER AIDE I	Educational Services	611310	54
TEACHER AIDE I	Health Care and Social Assistance	624410	82
Technical Sales Representative	Educational Services	611513	46
Technical Sales Representative	Professional, Scientific, and Technical Services	541618	1
Technical Sales Representative	Real Estate and Rental and Leasing	531210	1
Technical Sales Specialist	Educational Services	611513	9
TELECOMMUNICATION TOWER TECHNICIAN	Construction	238210	1
TELECOMMUNICATION TOWER TECHNICIAN	Educational Services	611513	11
TELECOMMUNICATIONS TECHNICIAN (Alternate Title: Broadband Technician)	Construction	238210	468
TELECOMMUNICATIONS TECHNICIAN (Alternate Title: Broadband Technician)	Other Services (except Public Administration)	811310	15
TELECOMMUNICATIONS TECHNICIAN (Alternate Title: Broadband Technician)	Construction	238210	858
TELECOMMUNICATOR	Health Care and Social Assistance	622110	3265
TERRAZZO FINISHER	Construction	236220	546
TERRAZZO WORKER	Construction	236220	546
TERRAZZO WORKER	Construction	238340	1
TILE FINISHER	Construction	236220	546
TILE FINISHER	Educational Services	611513	30
TILE SETTER	Construction	236220	546
TILE SETTER	Construction	238330	2
TILE SETTER	Construction	238340	7
TILE SETTER	Other Services (except Public Administration)	813910	56
TOOL AND DIE MAKER	Educational Services	611519	2
TOOL AND DIE MAKER	Manufacturing	326199	2
TOOL AND DIE MAKER	Manufacturing	332313	1
TOOL AND DIE MAKER	Manufacturing	333924	1
TOOL AND DIE MAKER	Other Services (except Public Administration)	811310	2
TOOL MAKER	Manufacturing	336110	55

Occupation Title	Industry	NAICS Code	Active Apprentices
Tradeshaw Worker	Administrative and Support and Waste Management and Remediation Services	561920	148
TRANSFORMER REPAIRER	Utilities	221118	58
Transmission Line Worker	Transportation and Warehousing	484121	4
TRANSMISSION MECHANIC	Public Administration (not covered in economic census)	922140	848
TRANSPORTATION CLERK (Alternate Title: Transportation Management Coordinator)	Educational Services	611513	11
TRUCK CRANE OPERATOR (Alternate Title: Crane Operator)	Educational Services	611513	150
TRUCK DRIVER, HEAVY	Educational Services	611210	431
TRUCK DRIVER, HEAVY	Educational Services	611310	209
TRUCK DRIVER, HEAVY	Educational Services	611513	57
TRUCK DRIVER, HEAVY	Manufacturing	333924	2
TRUCK DRIVER, HEAVY	Not Provided	811118	122
TRUCK DRIVER, HEAVY	Public Administration (not covered in economic census)	922140	848
TRUCK DRIVER, HEAVY	Transportation and Warehousing	484121	44
TRUCK DRIVER, HEAVY	Transportation and Warehousing	488510	9
TRUCK DRIVER, HEAVY (Alternate Title: Motor Transport Operator)	Administrative and Support and Waste Management and Remediation Services	562112	5
Undercar Specialist (Alternate Title: Automotive Tech Specialist)	Other Services (except Public Administration)	811111	6
User Experience Designer	Educational Services	611513	9
User Experience Designer	Professional, Scientific, and Technical Services	541613	5
Veterinary/Lab Animal Tech (Alternate Title: Animal Care Specialist)	Educational Services	611210	38
Waste Treatment Operator	Public Administration (not covered in economic census)	924110	4
Wastewater Systems Operator	Public Administration (not covered in economic census)	921190	40
Wastewater Systems Operator	Public Administration (not covered in economic census)	924110	4
Wastewater Systems Operator	Utilities	221310	5
Wastewater-treatmt - Plant Operator (Alternate Title: Water Treatment Specialist)	Public Administration (not covered in economic census)	922140	1
Water Distribution Operator	Educational Services	611513	120

Occupation Title	Industry	NAICS Code	Active Apprentices
Water Systems Operation Specialist	Public Administration (not covered in economic census)	924110	4
Water Systems Operation Specialist	Utilities	221310	5
Water Treatment Plant Operator	Educational Services	611310	217
Welder, Arc	Educational Services	611513	173
Welder, Arc	Educational Services	611519	34
Welder, Combination	Construction	236220	888
Welder, Combination	Construction	238220	39
Welder, Combination	Educational Services	611310	209
Welder, Combination	Educational Services	611513	207
Welder, Combination	Educational Services	611519	34
Welder, Combination	Educational Services	611699	14
Welder, Combination	Manufacturing	332722	2
Welder, Combination	Manufacturing	339999	6
Welder, Combination	Mining, Quarrying, and Oil and Gas Extraction	213112	187
Welder, Combination	Not Provided	811118	122
Welder, Combination	Other Services (except Public Administration)	813910	59
Welder, Combination	Public Administration (not covered in economic census)	922140	848
Welding (Existing Title: Welder, Combination)	Construction	237310	187
Welding (Existing Title: Welder, Combination)	Construction	238210	1
Welding (Existing Title: Welder, Combination)	Educational Services	611513	669
Welding Technician	Construction	238220	172

Appendix C. Occupational Demand for each Industry: Top 25 occupations in each industry with the highest projected growth from 2020-2030

Construction

Occupational Title	Annual Average Employment 2020	Annual Average Employment 2030	Number Change 2020-2030	Percent Change 2020-2030
Construction Laborers	84,675	107,257	22,582	26.67
Electricians	45,811	59,824	14,013	30.59
First-Line Supervisors of Construction Trades and Extraction Workers	47,414	58,149	10,735	22.64
Construction Managers	33,093	43,107	10,014	30.26
Plumbers, Pipefitters, and Steamfitters	31,965	39,767	7,802	24.41
Operating Engineers and Other Construction Equipment Operators	28,072	35,090	7,018	25.00
General and Operations Managers	24,602	29,855	5,253	21.35
Carpenters	28,245	32,732	4,487	15.89
Heating, Air Conditioning, and Refrigeration Mechanics and Installers	17,756	22,183	4,427	24.93
Heavy and Tractor-Trailer Truck Drivers	12,638	15,640	3,002	23.75
Office Clerks, General	28,636	31,462	2,826	9.87
Welders, Cutters, Solderers, and Brazers	10,563	13,211	2,648	25.07
Painters, Construction and Maintenance	13,842	16,040	2,198	15.88
Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters	8,693	10,877	2,184	25.12
Cement Masons and Concrete Finishers	18,764	20,946	2,182	11.63
Project Management Specialists and Business Operations Specialists, All Other	11,448	13,560	2,112	18.45
Helpers--Electricians	9,646	11,393	1,747	18.11
Roofers	6,716	8,108	1,392	20.73
Sales Representatives of Services, Except Advertising, Insurance, Financial Services, and Travel	6,466	7,816	1,350	20.88
Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	6,115	7,453	1,338	21.88
Telecommunications Line Installers and Repairers	3,515	4,824	1,309	37.24

Occupational Title	Annual Average Employment 2020	Annual Average Employment 2030	Number Change 2020-2030	Percent Change 2020-2030
Sheet Metal Workers	7,249	8,551	1,302	17.96
Excavating and Loading Machine and Dragline Operators, Surface Mining	4,683	5,935	1,252	26.74
Helpers--Installation, Maintenance, and Repair Workers	4,962	6,181	1,219	24.57
Electrical Power-Line Installers and Repairers	3,655	4,861	1,206	33.00

Education and Health Services

Occupational Title	Annual Average Employment 2020	Annual Average Employment 2030	Number Change 2020-2030	Percent Change 2020-2030
Registered Nurses	198,362	232,502	34,140	17.21
Medical Assistants	69,341	89,588	20,247	29.20
Medical Secretaries and Administrative Assistants	63,936	77,967	14,031	21.95
Substitute Teachers, Short-Term	73,890	87,703	13,813	18.69
Secondary School Teachers, Except Special and Career/Technical Education	95,906	109,047	13,141	13.70
Medical and Health Services Managers	28,810	41,125	12,315	42.75
Teaching Assistants, Except Postsecondary	84,851	97,090	12,239	14.42
Childcare Workers	44,362	55,914	11,552	26.04
Licensed Practical and Licensed Vocational Nurses	61,735	72,254	10,519	17.04
Nursing Assistants	70,783	80,996	10,213	14.43
Nurse Practitioners	13,361	22,803	9,442	70.67
Dental Assistants	28,258	37,385	9,127	32.30
Middle School Teachers, Except Special and Career/Technical Education	64,856	73,664	8,808	13.58
Preschool Teachers, Except Special Education	23,499	30,152	6,653	28.31
Janitors and Cleaners, Except Maids and Housekeeping Cleaners	45,678	52,306	6,628	14.51
Receptionists and Information Clerks	30,655	36,705	6,050	19.74
Speech-Language Pathologists	13,585	18,991	5,406	39.79
Office Clerks, General	69,244	73,696	4,452	6.43
Health Specialties Teachers, Postsecondary	14,250	18,677	4,427	31.07
Educational, Guidance, and Career Counselors and Advisors	24,368	28,528	4,160	17.07
Dental Hygienists	12,416	16,466	4,050	32.62

Occupational Title	Annual Average Employment 2020	Annual Average Employment 2030	Number Change 2020-2030	Percent Change 2020-2030
Education Administrators, Kindergarten through Secondary	28,639	32,608	3,969	13.86
Medical Dosimetrists, Medical Records Specialists, and Health Technologists and Technicians, All Other	22,515	26,346	3,831	17.02
Tutors and Teachers and Instructors, All Other	15,532	19,271	3,739	24.07
Fast Food and Counter Workers	27,614	31,333	3,719	13.47

Financial Activities

Occupational Title	Annual Average Employment 2020	Annual Average Employment 2030	Number Change 2020-2030	Percent Change 2020-2030
Insurance Sales Agents	30144	37510	7366	24.436
Maintenance and Repair Workers, General	32381	39212	6831	21.0957
Securities, Commodities, and Financial Services Sales Agents	30703	37121	6418	20.9035
Customer Service Representatives	57766	62920	5154	8.9222
Real Estate Sales Agents	14068	18708	4640	32.9827
General and Operations Managers	21357	25979	4622	21.6416
Financial Managers	14394	18973	4579	31.8119
Personal Financial Advisors	13991	18283	4292	30.6769
Property, Real Estate, and Community Association Managers	18783	22761	3978	21.1787
Software Developers and Software Quality Assurance Analysts and Testers	10380	14054	3674	35.395
Counter and Rental Clerks	15362	18716	3354	21.8331

Occupational Title	Annual Average Employment 2020	Annual Average Employment 2030	Number Change 2020-2030	Percent Change 2020-2030
Office Clerks, General	31058	34190	3132	10.0844
Accountants and Auditors	14081	17121	3040	21.5894
Financial and Investment Analysts, Financial Risk Specialists, and Financial Specialists, All Other	13940	16883	2943	21.1119
Loan Officers	21048	23800	2752	13.0749
Project Management Specialists and Business Operations Specialists, All Other	10559	12807	2248	21.2899
Insurance Claims and Policy Processing Clerks	20074	22173	2099	10.4563
Financial Examiners	4572	6468	1896	41.4698
Loan Interviewers and Clerks	20539	22297	1758	8.5593
Management Analysts	8137	9780	1643	20.1917
Claims Adjusters, Examiners, and Investigators	17721	19350	1629	9.1925
Market Research Analysts and Marketing Specialists	4626	6160	1534	33.1604
Bookkeeping, Accounting, and Auditing Clerks	17946	19421	1475	8.2191
Sales and Related Workers, All Other	5497	6827	1330	24.195
First-Line Supervisors of Office and Administrative Support Workers	21698	22903	1205	5.5535

Information

Occupational Title	Annual Average Employment 2020	Annual Average Employment 2030	Number Change 2020-2030	Percent Change 2020-2030
Software Developers and Software Quality Assurance Analysts and Testers	14,285	18,966	4,681	32.77
Waiters and Waitresses	1,753	3,590	1,837	104.79
Ushers, Lobby Attendants, and Ticket Takers	2,377	4,053	1,676	70.51
Telecommunications Equipment Installers and Repairers, Except Line Installers	12,732	14,090	1,358	10.67
Computer User Support Specialists	7,405	8,393	988	13.34
Market Research Analysts and Marketing Specialists	4,050	5,018	968	23.90
Sales Representatives of Services, Except Advertising, Insurance, Financial Services, and Travel	10,649	11,469	820	7.70
Information Security Analysts	1,798	2,612	814	45.27
Bartenders	287	954	667	232.40
Telecommunications Line Installers and Repairers	11,192	11,807	615	5.50
Network and Computer Systems Administrators	4,131	4,727	596	14.43
Electronics Engineers, Except Computer	2,341	2,905	564	24.09
Project Management Specialists and Business Operations Specialists, All Other	5,183	5,610	427	8.24
Cooks, Restaurant	474	891	417	87.97
Computer Occupations, All Other	3,631	4,030	399	10.99
Computer and Information Systems Managers	2,278	2,658	380	16.68
Operations Research Analysts	879	1,208	329	37.43
Food Servers, Nonrestaurant	209	512	303	144.98
First-Line Supervisors of Personal Service and Entertainment and Recreation Workers, Except Gambling Services	413	702	289	69.98
Computer Hardware Engineers	1,442	1,730	288	19.97
Cashiers	657	944	287	43.68
Public Relations Specialists	1,313	1,573	260	19.80

Occupational Title	Annual Average Employment 2020	Annual Average Employment 2030	Number Change 2020-2030	Percent Change 2020-2030
Cooks, Short Order	246	504	258	104.88
Amusement and Recreation Attendants	331	566	235	71.00
Dishwashers	179	396	217	121.23

Leisure and Hospitality

Occupational Title	Annual Average Employment 2020	Annual Average Employment 2030	Number Change 2020-2030	Percent Change 2020-2030
Fast Food and Counter Workers	326,356	420,625	94,269	28.89
Cooks, Restaurant	101,452	167,725	66,273	65.32
Waiters and Waitresses	169,059	223,107	54,048	31.97
First-Line Supervisors of Food Preparation and Serving Workers	73,084	100,456	27,372	37.45
Dining Room and Cafeteria Attendants and Bartender Helpers	35,014	49,884	14,870	42.47
Bartenders	27,832	39,466	11,634	41.80
Driver/Sales Workers	23,516	33,592	10,076	42.85
Food Preparation Workers	31,620	40,348	8,728	27.60
Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	21,958	30,350	8,392	38.22
Maids and Housekeeping Cleaners	30,079	38,401	8,322	27.67
Dishwashers	25,438	33,759	8,321	32.71
General and Operations Managers	17,079	23,701	6,622	38.77
Cashiers	41,368	47,954	6,586	15.92
Hotel, Motel, and Resort Desk Clerks	19,757	25,318	5,561	28.15
Exercise Trainers and Group Fitness Instructors	12,597	17,963	5,366	42.60
Food Service Managers	12,915	18,007	5,092	39.43
Maintenance and Repair Workers, General	9,558	13,211	3,653	38.22
Amusement and Recreation Attendants	10,070	13,604	3,534	35.09
Cooks, Fast Food	38,622	41,766	3,144	8.14
Janitors and Cleaners, Except Maids and Housekeeping Cleaners	5,943	8,363	2,420	40.72
Food Servers, Nonrestaurant	5,830	7,821	1,991	34.15
Security Guards	5,317	7,306	1,989	37.41

Occupational Title	Annual Average Employment 2020	Annual Average Employment 2030	Number Change 2020-2030	Percent Change 2020-2030
Sales Representatives of Services, Except Advertising, Insurance, Financial Services, and Travel	4,650	6,569	1,919	41.27
Cooks, Institution and Cafeteria	4,816	6,704	1,888	39.20
Bakers	4,616	6,299	1,683	36.46

Manufacturing

Occupational Title	Annual Average Employment 2020	Annual Average Employment 2030	Number Change 2020-2030	Percent Change 2020-2030
Industrial Machinery Mechanics	15,160	21,251	6,091	40.18
Welders, Cutters, Solderers, and Brazers	24,458	29,977	5,519	22.57
First-Line Supervisors of Production and Operating Workers	31,149	36,272	5,123	16.45
Machinists	17,375	21,667	4,292	24.70
Industrial Engineers	12,572	15,902	3,330	26.49
Software Developers and Software Quality Assurance Analysts and Testers	14,274	17,443	3,169	22.20
Laborers and Freight, Stock, and Material Movers, Hand	17,393	20,295	2,902	16.68
Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	16,609	19,396	2,787	16.78
Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	15,189	17,660	2,471	16.27
General and Operations Managers	15,499	17,921	2,422	15.63
Industrial Truck and Tractor Operators	14,072	16,323	2,251	16.00
Heavy and Tractor-Trailer Truck Drivers	14,471	16,620	2,149	14.85
Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	9,221	11,245	2,024	21.95
Mechanical Engineers	10,975	12,944	1,969	17.94
Maintenance and Repair Workers, General	12,304	14,238	1,934	15.72
Production, Planning, and Expediting Clerks	10,534	12,268	1,734	16.46
Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	7,967	9,690	1,723	21.63

Occupational Title	Annual Average Employment 2020	Annual Average Employment 2030	Number Change 2020-2030	Percent Change 2020-2030
Logisticians	3,934	5,629	1,695	43.09
Industrial Production Managers	8,715	10,197	1,482	17.01
Stockers and Order Fillers	7,604	8,917	1,313	17.27
Packers and Packagers, Hand	8,546	9,764	1,218	14.25
Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	11,663	12,793	1,130	9.69
Food Batchmakers	6,609	7,696	1,087	16.45
Electronics Engineers, Except Computer	4,687	5,687	1,000	21.34
Maintenance Workers, Machinery	3,677	4,675	998	27.14

Natural Resources and Mining

Occupational Title	Annual Average Employment 2020	Annual Average Employment 2030	Number Change 2020-2030	Percent Change 2020-2030
Roustabouts, Oil and Gas	15,314	22,902	7,588	49.55
Service Unit Operators, Oil and Gas	14,047	20,174	6,127	43.62
Heavy and Tractor-Trailer Truck Drivers	11,983	17,105	5,122	42.74
First-Line Supervisors of Construction Trades and Extraction Workers	8,975	13,041	4,066	45.30
General and Operations Managers	6,478	8,897	2,419	37.34
Rotary Drill Operators, Oil and Gas	4,642	6,726	2,084	44.89
Farmworkers, Farm, Ranch, and Aquacultural Animals	14,056	16,132	2,076	14.77
Industrial Machinery Mechanics	4,422	6,300	1,878	42.47
Derrick Operators, Oil and Gas	3,865	5,615	1,750	45.28
Farmers, Ranchers, and Other Agricultural Managers	11,180	12,916	1,736	15.53
Petroleum Engineers	6,360	8,002	1,642	25.82
Operating Engineers and Other Construction Equipment Operators	4,305	5,937	1,632	37.91
Helpers--Extraction Workers	3,045	4,672	1,627	53.43
Accountants and Auditors	6,409	7,932	1,523	23.76
Construction Laborers	2,964	4,341	1,377	46.46
Wellhead Pumpers	4,774	6,092	1,318	27.61
Laborers and Freight, Stock, and Material Movers, Hand	2,487	3,618	1,131	45.48
Office Clerks, General	4,929	5,921	992	20.13

Occupational Title	Annual Average Employment 2020	Annual Average Employment 2030	Number Change 2020-2030	Percent Change 2020-2030
Sales Representatives of Services, Except Advertising, Insurance, Financial Services, and Travel	1,985	2,910	925	46.60
Welders, Cutters, Solderers, and Brazers	1,858	2,688	830	44.67
Geological and Hydrologic Technicians	2,044	2,814	770	37.67
Project Management Specialists and Business Operations Specialists, All Other	2,317	2,981	664	28.66
Financial Managers	1,556	2,218	662	42.55
First-Line Supervisors of Mechanics, Installers, and Repairers	1,456	2,081	625	42.93
Bookkeeping, Accounting, and Auditing Clerks	3,713	4,332	619	16.67

Other Services

Occupational Title	Annual Average Employment 2020	Annual Average Employment 2030	Number Change 2020-2030	Percent Change 2020-2030
Hairdressers, Hairstylists, and Cosmetologists	22,316	30,096	7,780	34.86
Animal Caretakers	7,323	13,019	5,696	77.78
Cleaners of Vehicles and Equipment	14,797	18,207	3,410	23.05
Automotive Service Technicians and Mechanics	21,195	24,370	3,175	14.98
Clergy	13,342	15,845	2,503	18.76
Industrial Machinery Mechanics	4,772	6,840	2,068	43.34
Directors, Religious Activities and Education	9,884	11,739	1,855	18.77
Automotive Body and Related Repairers	6,689	8,128	1,439	21.51
Maintenance and Repair Workers, General	6,228	7,561	1,333	21.40
First-Line Supervisors of Personal Service and Entertainment and Recreation Workers, Except Gambling Services	3,504	4,818	1,314	37.50
Skincare Specialists	2,657	3,941	1,284	48.33
Office Clerks, General	14,332	15,613	1,281	8.94
Massage Therapists	2,233	3,464	1,231	55.13
Automotive and Watercraft Service Attendants	4,938	6,071	1,133	22.94
First-Line Supervisors of Transportation and Material Moving Workers, Except Aircraft Cargo Handling Supervisors	3,808	4,902	1,094	28.73

Occupational Title	Annual Average Employment 2020	Annual Average Employment 2030	Number Change 2020-2030	Percent Change 2020-2030
Recreation Workers	3,841	4,906	1,065	27.73
Parking Attendants	4,075	5,118	1,043	25.60
Preschool Teachers, Except Special Education	5,391	6,422	1,031	19.12
Musicians and Singers	5,494	6,522	1,028	18.71
First-Line Supervisors of Mechanics, Installers, and Repairers	4,881	5,904	1,023	20.96
Receptionists and Information Clerks	8,969	9,970	1,001	11.16
Exercise Trainers and Group Fitness Instructors	2,559	3,552	993	38.80
Childcare Workers	11,725	12,713	988	8.43
Passenger Vehicle Drivers, Except Bus Drivers, Transit and Intercity	2,152	3,063	911	42.33
Sales Representatives of Services, Except Advertising, Insurance, Financial Services, and Travel	3,873	4,781	908	23.44

Professional and Business Services

Occupational Title	Annual Average Employment 2020	Annual Average Employment 2030	Number Change 2020-2030	Percent Change 2020-2030
Software Developers and Software Quality Assurance Analysts and Testers	49,812	79,189	29,377	58.98
Customer Service Representatives	88,821	106,510	17,689	19.92
Security Guards	57,392	70,683	13,291	23.16
General and Operations Managers	43,131	56,132	13,001	30.14
Janitors and Cleaners, Except Maids and Housekeeping Cleaners	75,393	88,307	12,914	17.13
Project Management Specialists and Business Operations Specialists, All Other	38,555	50,807	12,252	31.78
Accountants and Auditors	45,700	57,144	11,444	25.04
Landscaping and Groundskeeping Workers	39,715	48,594	8,879	22.36
Sales Representatives of Services, Except Advertising, Insurance, Financial Services, and Travel	28,626	37,410	8,784	30.69
Laborers and Freight, Stock, and Material Movers, Hand	36,418	44,622	8,204	22.53
Computer User Support Specialists	22,014	29,808	7,794	35.40
Lawyers	31,744	39,271	7,527	23.71
Computer Systems Analysts	21,648	28,808	7,160	33.07

Occupational Title	Annual Average Employment 2020	Annual Average Employment 2030	Number Change 2020-2030	Percent Change 2020-2030
Office Clerks, General	53,691	60,361	6,670	12.42
Market Research Analysts and Marketing Specialists	14,310	20,966	6,656	46.51
Human Resources Specialists	17,352	23,935	6,583	37.94
Management Analysts	17,749	23,789	6,040	34.03
Paralegals and Legal Assistants	23,526	29,396	5,870	24.95
Financial Managers	11,288	16,058	4,770	42.26
Bookkeeping, Accounting, and Auditing Clerks	35,092	39,821	4,729	13.48
Civil Engineers	16,944	21,642	4,698	27.73
Computer and Information Systems Managers	12,531	17,147	4,616	36.84
Network and Computer Systems Administrators	12,377	16,397	4,020	32.48
First-Line Supervisors of Office and Administrative Support Workers	21,372	25,058	3,686	17.25
Information Security Analysts	5,309	8,744	3,435	64.70

Public Administration

Occupational Title	Annual Average Employment 2020	Annual Average Employment 2030	Number Change 2020-2030	Percent Change 2020-2030
Police and Sheriff's Patrol Officers	52,289	59,006	6,717	12.85
Firefighters	22,770	25,820	3,050	13.39
Court, Municipal, and License Clerks	14,421	16,142	1,721	11.93
Project Management Specialists and Business Operations Specialists, All Other	19,902	21,543	1,641	8.25
Computer Occupations, All Other	6,029	7,609	1,580	26.21
Detectives and Criminal Investigators	18,501	19,982	1,481	8.01
Management Analysts	5,263	6,560	1,297	24.64
Landscaping and Groundskeeping Workers	4,581	5,706	1,125	24.56
Compliance Officers	13,776	14,798	1,022	7.42
Lawyers	9,369	10,275	906	9.67
Operating Engineers and Other Construction Equipment Operators	7,128	8,016	888	12.46
Registered Nurses	11,544	12,411	867	7.51
Public Safety Telecommunicators	6,386	7,240	854	13.37
Social and Human Service Assistants	7,947	8,793	846	10.65
Highway Maintenance Workers	5,848	6,642	794	13.58

Occupational Title	Annual Average Employment 2020	Annual Average Employment 2030	Number Change 2020-2030	Percent Change 2020-2030
Probation Officers and Correctional Treatment Specialists	7,118	7,900	782	10.99
Accountants and Auditors	7,937	8,696	759	9.56
General and Operations Managers	6,784	7,537	753	11.10
First-Line Supervisors of Police and Detectives	6,029	6,775	746	12.37
Civil Engineers	5,768	6,504	736	12.76
Medical and Health Services Managers	2,359	3,075	716	30.35
Bus Drivers, Transit and Intercity	5,110	5,804	694	13.58
Child, Family, and School Social Workers	10,628	11,259	631	5.94
Information and Record Clerks, All Other	7,204	7,827	623	8.65
Eligibility Interviewers, Government Programs	9,664	10,279	615	6.36

Trade, Transportation and Utilities

Occupational Title	Annual Average Employment 2020	Annual Average Employment 2030	Number Change 2020-2030	Percent Change 2020-2030
Retail Salespersons	312,717	360,808	48,091	15.38
Stockers and Order Fillers	162,754	198,085	35,331	21.71
Heavy and Tractor-Trailer Truck Drivers	132,142	162,270	30,128	22.80
Laborers and Freight, Stock, and Material Movers, Hand	118,010	141,701	23,691	20.08
Light Truck Drivers	59,117	73,782	14,665	24.81
Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	69,896	82,781	12,885	18.43
First-Line Supervisors of Retail Sales Workers	93,357	106,136	12,779	13.69
Cashiers	229,030	240,204	11,174	4.88
General and Operations Managers	54,891	64,657	9,766	17.79
Industrial Truck and Tractor Operators	41,505	50,424	8,919	21.49
Pharmacy Technicians	24,373	30,827	6,454	26.48
First-Line Supervisors of Transportation and Material Moving Workers, Except Aircraft Cargo Handling Supervisors	28,303	34,053	5,750	20.32
Flight Attendants	16,253	21,331	5,078	31.24
Food Preparation Workers	22,398	27,466	5,068	22.63

Occupational Title	Annual Average Employment 2020	Annual Average Employment 2030	Number Change 2020-2030	Percent Change 2020-2030
Parts Salespersons	24,349	28,839	4,490	18.44
Customer Service Representatives	65,166	69,101	3,935	6.04
Driver/Sales Workers	16,537	19,946	3,409	20.61
Sales Representatives of Services, Except Advertising, Insurance, Financial Services, and Travel	22,151	25,382	3,231	14.59
Automotive Service Technicians and Mechanics	23,521	26,750	3,229	13.73
Mobile Heavy Equipment Mechanics, Except Engines	7,453	10,670	3,217	43.16
Office Clerks, General	43,311	46,322	3,011	6.95
Bus and Truck Mechanics and Diesel Engine Specialists	12,375	15,120	2,745	22.18
Maintenance and Repair Workers, General	13,425	16,007	2,582	19.23
Passenger Vehicle Drivers, Except Bus Drivers, Transit and Intercity	7,470	10,025	2,555	34.20
Software Developers and Software Quality Assurance Analysts and Testers	7,897	10,403	2,506	31.73

Appendix D: Total Active Apprentices in the Top 25 occupations making above Texas median wage of \$43,463, ranked by highest projected number of jobs added due to growth for the period 2020–2030.

