State Career Cluster	Program of Study	soc	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Agriculture, Food, and Natural Resources	Agribusiness	13-1028	Buyers and Purchasing Agents	6%	\$48,746	LOW/HIGH	233	248	25	Bachelor's degree
Agriculture, Food, and Natural Resources	Agribusiness	13-2071	Credit Counselors	9%	\$36,696	LOW/LOW	25	27	2	Bachelor's degree
Agriculture, Food, and Natural Resources	Agribusiness, Applied Agricultural Engineering, Plant Science	11-9013	Farmers, Ranchers, and Other Agricultural Managers	15%	\$33,623	HIGH/LOW	1,526	1,760	188	Bachelor's degree
Agriculture, Food, and Natural Resources	Animal Science	19-1042	Medical Scientists, Except Epidemiologists	32%	\$57,393	HIGH/HIGH	36	47	4	Doctoral or professional degree
Agriculture, Food, and Natural Resources	Animal Science	19-1029	Biological Scientists, All Other	14%	\$75,718	HIGH/HIGH	15	17	2	Bachelor's degree
Agriculture, Food, and Natural Resources	Animal Science	29-1131	Veterinarians	11%	\$87,468	HIGH/HIGH	86	95	4	Doctoral or professional degree
Agriculture, Food, and Natural Resources	Animal Science	19-1099	Life Scientists, All Other	1%	\$65,921	LOW/HIGH	26	27	2	Master's degree
Agriculture, Food, and Natural Resources	Animal Science	19-1031	Conservation Scientists	(3%)	\$57,065	LOW/HIGH	34	33	3	Bachelor's degree

State Career Cluster	Program of Study	SOC	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Agriculture, Food, and Natural Resources	Applied Agricultural Engineering	49-9041	Industrial Machinery Mechanics	22%	\$48,748	HIGH/HIGH	499	610	60	Recognized Industry Credential
Agriculture, Food, and Natural Resources	Applied Agricultural Engineering	49-3042	Mobile Heavy Equipment Mechanics, Except Engines	14%	\$43,948	HIGH/HIGH	178	203	21	Recognized Industry Credential
Agriculture, Food, and Natural Resources	Applied Agricultural Engineering	17-1011	Architects, Except Landscape and Naval	11%	\$73,092	HIGH/HIGH	60	67	6	Bachelor's degree
Agriculture, Food, and Natural Resources	Applied Agricultural Engineering	51-4121	Welders, Cutters, Solderers, and Brazers	4%	\$41,305	LOW/HIGH	749	778	90	Recognized Industry Credential
Agriculture, Food, and Natural Resources	Applied Agricultural Engineering	49-3041	Farm Equipment Mechanics and Service Technicians	3%	\$42,770	LOW/HIGH	79	81	9	High school diploma or equivalent
Agriculture, Food, and Natural Resources	Applied Agricultural Engineering	49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	14%	\$37,267	HIGH/LOW	38	44	5	High school diploma or equivalent

State Career Cluster Agriculture,	Program of Study Environmental and	SOC 17-2081	Occupational Title Environmental Engineers	Growth Rate 6%	Median Annual Wage \$94,228	Growth Wage Category LOW/HIGH	Annual Average Employment 2020	Annual Average Employment 2030 29	Total Annual Openings 2	Competitive Education Requirement Master's
Food, and Natural Resources	Natural Resources		3		***/	,				degree
Agriculture, Food, and Natural Resources	Environmental and Natural Resources	19-4042	Environmental Science and Protection Technicians, Including Health	0%	\$45,599	LOW/HIGH	25	25	3	Associate's degree
Agriculture, Food, and Natural Resources	Environmental and Natural Resources	19-2041	Environmental Scientists and Specialists, Including Health	(3%)	\$64,254	LOW/HIGH	40	39	4	Bachelor's degree
Agriculture, Food, and Natural Resources	Environmental and Natural Resources	17-3025	Environmental Engineering Technologists and Technicians	(5%)	\$45,749	LOW/HIGH	22	21	2	Associate's degree
Agriculture, Food, and Natural Resources	Food Science and Technology	19-4011	Agricultural and Food Science Technicians	40%	\$40,853	HIGH/HIGH	14	20	3	Associate's degree
Agriculture, Food, and Natural Resources	Food Science and Technology	11-1021	General and Operations Managers	16%	\$71,358	HIGH/HIGH	2,495	2,899	263	Bachelor's degree

State Career Cluster Agriculture, Food, and Natural Resources	Program of Study Food Science and Technology	SOC 51-1011	Occupational Title First-Line Supervisors of Production and Operating Workers	Growth Rate 15%	Median Annual Wage \$52,238	Growth Wage Category HIGH/HIGH	Annual Average Employment 2020 570	Annual Average Employment 2030 655	Total Annual Openings 69	Competitive Education Requirement Some College, No Degree
Agriculture, Food, and Natural Resources	Food Science and Technology	45-2011	Agricultural Inspectors	(5%)	\$48,363	LOW/HIGH	19	18	3	Bachelor's degree
Agriculture, Food, and Natural Resources	Food Science and Technology	51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	(0%)	\$39,068	LOW/LOW	429	428	54	Recognized Industry Credential
Agriculture, Food, and Natural Resources	Plant Science	37-1012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	10%	\$40,140	LOW/HIGH	130	142	16	Some College, No Degree
Agriculture, Food, and Natural Resources	Plant Science	19-4021	Biological Technicians	7%	\$42,262	LOW/HIGH	57	61	8	Bachelor's degree
Agriculture, Food,	Plant Science	37-3013	Tree Trimmers and Pruners	8%	\$32,655	LOW/LOW	57	61	8	No formal educational
Agriculture, Food,	Plant Science	37-3012	Pesticide Handlers, Sprayers, and	3%	\$29,570	LOW/LOW	30	31	4	High school diploma or
Agriculture, Food,		47-5097	Earth Drillers, Except Oil and Gas; and Explosives Workers, Ordnance	14%	\$51,920	HIGH/HIGH	46	52	7	High school diploma or

State Career Cluster	Program of Study	SOC	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Agriculture, Food,		11-9121	Natural Sciences Managers	4%	\$110,414	LOW/HIGH	23	24	2	Bachelor's degree
Agriculture, Food,		51-3022	Meat, Poultry, and Fish Cutters and	38%	\$29,019	HIGH/LOW	79	109	15	No formal educational
Agriculture, Food,		39-2021	Animal Caretakers	36%	\$24,061	HIGH/LOW	240	326	50	High school diploma or
Agriculture, Food,		45-3031	Fishing and Hunting Workers	34%	\$32,041	HIGH/LOW	94	125	20	No formal educational
Agriculture, Food,		47-5051	Rock Splitters, Quarry	28%	\$28,189	HIGH/LOW	12	15	2	High school diploma or
Agriculture, Food, and Natural Resources		53-7081	Refuse and Recyclable Material Collectors	20%	\$32,516	HIGH/LOW	114	137	19	No formal educational credential
Agriculture, Food, and Natural Resources		47-5022	Excavating and Loading Machine and Dragline Operators, Surface Mining	14%	\$39,783	HIGH/LOW	114	130	17	High school diploma or equivalent
Agriculture, Food,		45-2093	Farmworkers, Farm, Ranch, and Aquacultural Animals	12%	\$24,758	HIGH/LOW	395	441	73	No formal educational
Agriculture, Food,		45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	11%	\$23,514	HIGH/LOW	1,262	1,398	230	No formal educational
Agriculture, Food,		45-2099	Agricultural Workers, All Other	10%	\$25,773	LOW/LOW	146	161	27	No formal educational
Agriculture, Food, and Natural Resources		37-3019	Grounds Maintenance Workers, All Other	10%	\$26,482	LOW/LOW	13	14	2	No formal educational credential
Agriculture, Food,		41-2022	Parts Salespersons	9%	\$30,958	LOW/LOW	396	432	54	High school diploma or

State Career Cluster	Program of Study	soc	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Agriculture, Food,		29-2056	Veterinary Technologists and Technicians	9%	\$28,850	LOW/LOW	147	161	13	Associate's degree
Agriculture, Food,		45-1011	First-Line Supervisors of Farming, Fishing,	7%	\$36,175	LOW/LOW	88	95	14	High school diploma or
Agriculture, Food, and Natural Resources		31-9096	Veterinary Assistants and Laboratory Animal Caretakers	6%	\$24,606	LOW/LOW	80	85	14	High school diploma or equivalent
Agriculture, Food,		45-2091	Agricultural Equipment Operators	4%	\$23,511	LOW/LOW	219	229	38	No formal educational
Agriculture, Food, and Natural Resources		45-2041	Graders and Sorters, Agricultural Products	4%	\$25,722	LOW/LOW	103	107	17	No formal educational credential
Agriculture, Food, and Natural Resources		51-8031	Water and Wastewater Treatment Plant and System Operators	2%	\$35,547	LOW/LOW	198	201	19	Recognized Industry Credential
Agriculture, Food, and Natural Resources		45-4021	Fallers	(2%)	\$38,965	LOW/LOW	24	23	4	High school diploma or equivalent
Agriculture, Food,		51-3021	Butchers and Meat Cutters	(3%)	\$26,614	LOW/LOW	148	143	18	Recognized Industry
Agriculture, Food,		37-2021	Pest Control Workers	(4%)	\$30,871	LOW/LOW	73	70	11	High school diploma or
	Architectural Design	27-1025	Interior Designers	23%	\$53,081	HIGH/HIGH	33	41	4	Bachelor's degree

State Career Cluster	Program of Study	SOC	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Architecture and Construction	Architectural Design	17-1011	Architects, Except Landscape and Naval	11%	\$73,092	HIGH/HIGH	60	67	6	Bachelor's degree
Architecture and Construction	Architectural Design	17-3011	Architectural and Civil Drafters	(26%)	\$46,190	LOW/HIGH	90	67	7	Associate's degree
Architecture and Construction	Architectural Design, Construction	11-9021	Construction Managers	20%	\$58,572	HIGH/HIGH	584	699	59	Bachelor's degree
Architecture and Construction		47-2031	Carpenters	6%	\$36,340	LOW/LOW	951	1,007	98	Recognized Industry
Architecture and Construction	Carpentry, Construction	13-1051	Cost Estimators	3%	\$63,745	LOW/HIGH	127	131	13	Bachelor's degree
Architecture and Construction	Construction Management and	47-4011	Construction and Building Inspectors	2%	\$59,315	LOW/HIGH	77	78	9	Recognized Industry Credential
Architecture and Construction		49-9051	Electrical Power-Line Installers and	45%	\$50,105	HIGH/HIGH	228	329	36	Recognized Industry
Architecture and Construction	Electrical	49-2098	Security and Fire Alarm Systems Installers	24%	\$43,479	HIGH/HIGH	25	31	4	Recognized Industry Credential
Architecture and Construction	Electrical	49-9052	Telecommunications Line Installers and Repairers	24%	\$67,607	HIGH/HIGH	178	221	26	Recognized Industry Credential
Architecture and Construction	Electrical	49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	23%	\$56,895	HIGH/HIGH	170	209	26	Recognized Industry Credential
Architecture and Construction	Electrical	47-2111	Electricians	1%	\$45,660	LOW/HIGH	866	875	95	Recognized Industry Credential

State Career				Growth	Median Annual	Growth Wage	Annual Average Employment	Annual Average Employment	Total Annual	Competitive Education
Cluster	Program of Study	SOC	Occupational Title	Rate	Wage	Category	2020	2030	Openings	Requirement
Architecture and Construction	Electrical	49-2097	Audiovisual Equipment Installers and Repairers	9%	\$33,872	LOW/LOW	24	27	3	Recognized Industry Credential
Architecture and Construction	HVAC and Sheet Metal	47-2211	Sheet Metal Workers	23%	\$40,781	HIGH/HIGH	52	64	7	High school diploma or equivalent
Architecture and Construction	HVAC and Sheet Metal	49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	22%	\$40,876	HIGH/HIGH	243	296	31	Recognized Industry Credential
Architecture and Construction	Masonry	47-2021	Brickmasons and Blockmasons	(1%)	\$43,682	LOW/HIGH	49	49	5	High school diploma or equivalent
Architecture and Construction	Masonry	47-2051	Cement Masons and Concrete Finishers	(12%)	\$39,863	LOW/LOW	142	125	13	No formal educational
Architecture and Construction	Plumbing and Pipefitting	47-2152	Plumbers, Pipefitters, and Steamfitters	17%	\$39,952	HIGH/HIGH	607	710	78	Recognized Industry Credential
Architecture and Construction	Plumbing and Pipefitting	47-2151	Pipelayers	12%	\$32,984	HIGH/LOW	26	29	3	High school diploma or
Architecture and Construction	Plumbing and Pipefitting	47-3015	HelpersPipelayers, Plumbers, Pipefitters, and Steamfitters	10%	\$29,406	LOW/LOW	142	157	19	High school diploma or equivalent
Architecture and Construction		49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	30%	\$65,880	HIGH/HIGH	48	62	6	Recognized Industry Credential

State Career Cluster Architecture and Construction	Program of Study	SOC 47-2132	Occupational Title Insulation Workers, Mechanical	Growth Rate 29%	Median Annual Wage \$45,133	Growth Wage Category HIGH/HIGH	Annual Average Employment 2020	Annual Average Employment 2030 15	Total Annual Openings 2	Competitive Education Requirement High school diploma or equivalent
Architecture and Construction		47-2121	Glaziers	18%	\$40,219	HIGH/HIGH	59	69	8	High school diploma or
Architecture and Construction		49-9011	Mechanical Door Repairers	12%	\$41,068	HIGH/HIGH	62	69	6	High school diploma or equivalent
Architecture and Construction		49-9096	Riggers	9%	\$41,338	LOW/HIGH	131	143	16	High school diploma or
Architecture and Construction		53-7021	Crane and Tower Operators	8%	\$53,549	LOW/HIGH	76	81	9	Recognized Industry Credential
Architecture and Construction		51-8021	Stationary Engineers and Boiler Operators	7%	\$40,889	LOW/HIGH	25	27	3	Recognized Industry Credential
Architecture and Construction		47-2073	Operating Engineers and Other Construction Equipment	6%	\$40,369	LOW/HIGH	685	729	82	High school diploma or
Architecture and Construction		49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	5%	\$44,474	LOW/HIGH	179	188	16	Recognized Industry Credential
Architecture and Construction		17-1012	Landscape Architects	(0%)	\$58,937	LOW/HIGH	16	16	1	Bachelor's degree
Architecture and Construction		17-2051	Civil Engineers	(3%)	\$66,834	LOW/HIGH	240	232	18	Bachelor's degree

State Career Cluster	Program of Study	SOC	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Architecture and Construction	, , , , , , , , , , , , , , , , , , ,	47-2171	Reinforcing Iron and Rebar Workers	(15%)	\$42,882	LOW/HIGH	64	54	6	High school diploma or equivalent
Architecture and Construction		51-2041	Structural Metal Fabricators and Fitters	(16%)	\$40,734	LOW/HIGH	99	83	10	High school diploma or
Architecture and Construction		49-9045	Refractory Materials Repairers, Except	(31%)	\$46,951	LOW/HIGH	29	20	2	High school diploma or
Architecture and Construction		47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	50%	\$32,614	HIGH/LOW	34	51	7	No formal educational credential
Architecture and Construction		47-4041	Hazardous Materials Removal Workers	45%	\$37,233	HIGH/LOW	25	36	5	High school diploma or equivalent
Architecture and Construction		47-2042	Floor Layers, Except Carpet, Wood, and Hard Tiles	29%	\$36,445	HIGH/LOW	19	25	2	No formal educational credential
Architecture and Construction		47-4031	Fence Erectors	18%	\$30,348	HIGH/LOW	21	25	3	No formal educational credential
Architecture and Construction		47-4098	Miscellaneous Construction and Related Workers	14%	\$37,115	HIGH/LOW	15	18	2	High school diploma or equivalent
Architecture and Construction		49-9071	Maintenance and Repair Workers, General	14%	\$32,486	HIGH/LOW	1,545	1,761	177	High school diploma or equivalent

State Career Cluster	Program of Study	SOC	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Architecture and Construction	Program of Study	47-2071	Paving, Surfacing, and Tamping Equipment Operators	11%	\$32,905	Category HIGH/LOW	26	29	3	High school diploma or equivalent
Architecture and Construction		37-3011	Landscaping and Groundskeeping Workers	11%	\$25,562	HIGH/LOW	1,229	1,359	183	No formal educational credential
Architecture and Construction		47-3012	HelpersCarpenters	10%	\$36,135	LOW/LOW	22	24	3	No formal educational credential
Architecture and Construction		49-9098	HelpersInstallation, Maintenance, and Repair Workers	7%	\$28,865	LOW/LOW	211	225	30	High school diploma or equivalent
Architecture and Construction		47-2061	Construction Laborers	6%	\$32,733	LOW/LOW	1,714	1,814	189	No formal educational credential
Architecture and Construction		47-2221	Structural Iron and Steel Workers	6%	\$38,634	LOW/LOW	64	68	8	High school diploma or equivalent
Architecture and Construction		47-2141	Painters, Construction and Maintenance	4%	\$36,102	LOW/LOW	385	400	36	No formal educational credential
Architecture and Construction		47-4051	Highway Maintenance Workers	1%	\$32,126	LOW/LOW	158	160	17	High school diploma or equivalent

State Career Cluster	Program of Study	SOC	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Architecture and Construction	,	53-7011	Conveyor Operators and Tenders	(0%)	\$32,356	LOW/LOW	56	56	7	Some College, No Degree
Architecture and Construction		47-2041	Carpet Installers	(5%)	\$33,727	LOW/LOW	26	25	2	No formal educational credential
Architecture and Construction		47-2181	Roofers	(5%)	\$33,221	LOW/LOW	65	62	7	No formal educational credential
Architecture and Construction		47-2161	Plasterers and Stucco Masons	(5%)	\$37,525	LOW/LOW	16	15	1	No formal educational credential
Architecture and Construction		47-2044	Tile and Stone Setters	(7%)	\$37,345	LOW/LOW	52	48	5	No formal educational credential
Architecture and Construction		47-3019	Helpers, Construction Trades, All Other	(8%)	\$34,431	LOW/LOW	85	78	10	No formal educational credential
Architecture and Construction		17-3022	Civil Engineering Technologists and Technicians	(13%)	\$38,219	LOW/LOW	139	120	12	Associate's degree
Architecture and Construction		49-9031	Home Appliance Repairers	(17%)	\$27,774	LOW/LOW	47	39	4	Recognized Industry Credential
Architecture and Construction		47-3013	HelpersElectricians	(18%)	\$29,047	LOW/LOW	113	92	12	High school diploma or equivalent

State Career Cluster	Program of Study	SOC	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Architecture and Construction	1 Togram of Study	49-9095	Manufactured Building and Mobile Home Installers	(18%)	\$27,363	LOW/LOW	41	33	4	High school diploma or equivalent
Architecture and Construction		47-2081	Drywall and Ceiling Tile Installers	(22%)	\$35,235	LOW/LOW	110	86	8	No formal educational credential
Architecture and Construction		47-2131	Insulation Workers, Floor, Ceiling, and Wall	(29%)	\$35,945	LOW/LOW	59	41	5	High school diploma or equivalent
Arts, Audio/Visual Technology, and Communication	Design and Multi Media Arts	27-1014	Special Effects Artists and Animators	32%	\$25,191	HIGH/LOW	12	15	2	Bachelor's degree
Arts, Audio/Visual Technology, and Communication	Design and Multi Media Arts	27-1024	Graphic Designers	18%	\$35,311	HIGH/LOW	94	112	11	Bachelor's degree
Arts, Audio/Visual Technology, and Communication	Design and Multi Media Arts	27-1027	Set and Exhibit Designers	17%	\$37,796	HIGH/LOW	11	12	1	Bachelor's degree
Arts, Audio/Visual Technology, and Communication	Digital Communications	27-4031	Camera Operators, Television, Video, and Film	48%	\$45,167	нібн/нібн	13	19	2	Bachelor's degree
Arts, Audio/Visual Technology, and Communication	Digital Communications	27-4032	Film and Video Editors	46%	\$44,299	HIGH/HIGH	11	16	2	Bachelor's degree
Arts, Audio/Visual Technology, and Communication	Digital Communications	27-4011	Audio and Video Technicians	39%	\$34,943	HIGH/LOW	49	68	8	Associate's degree

State Career Cluster	Program of Study	soc	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Arts, Audio/Visual Technology, and Communication		27-2012	Producers and Directors	74%	\$52,270	нібн/нібн	32	56	6	Bachelor's degree
Arts, Audio/Visual		27-4021	Photographers	35%	\$40,325	HIGH/HIGH	94	127	14	Some College, No Degree
Arts, Audio/Visual		27-4098	Lighting Technicians and Media and	25%	\$68,279	HIGH/HIGH	16	19	2	Associate's degree
Arts, Audio/Visual		27-3043	Writers and Authors	21%	\$47,388	HIGH/HIGH	73	88	9	Bachelor's degree
Arts, Audio/Visual		27-2042	Musicians and Singers	5%	\$48,009	LOW/HIGH	177	186	23	Some College, No Degree
Arts, Audio/Visual		27-2041	Music Directors and Composers	(1%)	\$53,473	LOW/HIGH	60	60	7	Bachelor's degree
Arts, Audio/Visual		27-3041	Editors	(1%)	\$46,402	LOW/HIGH	77	76	8	Bachelor's degree
Arts, Audio/Visual		27-2011	Actors	96%	\$39,357	HIGH/LOW	16	32	4	Some College, No Degree
Arts, Audio/Visual		27-2099	Miscellaneous Entertainers and Performers, Sports and Related	55%	\$37,876	HIGH/LOW	18	28	4	Some College, No Degree
Arts, Audio/Visual		27-1013	Fine Artists, Including Painters, Sculptors,	51%	\$17,771	HIGH/LOW	32	48	6	Bachelor's degree
Arts, Audio/Visual		27-1012	Craft Artists	28%	\$19,036	HIGH/LOW	24	30	4	Some College, No Degree
Arts, Audio/Visual Technology, and Communication		27-4012	Broadcast Technicians	27%	\$30,672	HIGH/LOW	15	19	2	Associate's degree

State Career Cluster	Program of Study	SOC	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Arts, Audio/Visual Technology, and Communication		27-1011	Art Directors	26%	\$36,994	HIGH/LOW	28	35	4	Bachelor's degree
Arts, Audio/Visual Technology, and Communication		51-5112	Printing Press Operators	9%	\$30,949	LOW/LOW	75	82	10	High school diploma or equivalent
Arts, Audio/Visual Technology, and Communication s		27-3011	Broadcast Announcers and Radio Disc Jockeys	1%	\$32,745	LOW/LOW	96	98	10	Bachelor's degree
Arts, Audio/Visual Technology, and Communication		51-5111	Prepress Technicians and Workers	(7%)	\$34,512	LOW/LOW	14	13	2	Recognized Industry Credential
Arts, Audio/Visual Technology, and Communication		27-3023	News Analysts, Reporters, and Journalists	(11%)	\$33,035	LOW/LOW	63	56	7	Bachelor's degree
Business, Marketing, and Finance	Accounting and Financial Services	11-3031	Financial Managers	31%	\$94,963	HIGH/HIGH	334	439	38	Bachelor's degree
Business, Marketing, and Finance	Accounting and Financial Services	13-2098	Financial and Investment Analysts, Financial Risk Specialists, and Financial	24%	\$65,262	HIGH/HIGH	185	230	20	Bachelor's degree
Business, Marketing, and Finance	Accounting and Financial Services	15-2011	Actuaries	24%	\$82,871	HIGH/HIGH	32	39	3	Bachelor's degree

State Career Cluster	Program of Study	SOC	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Business, Marketing, and Finance	Accounting and Financial Services	13-2011	Accountants and Auditors	18%	\$62,355	HIGH/HIGH	956	1,124	108	Bachelor's degree
Business, Marketing, and Finance	Accounting and Financial Services	13-2052	Personal Financial Advisors	17%	\$85,487	HIGH/HIGH	152	178	15	Bachelor's degree
Business, Marketing, and	Accounting and Financial Services	41-3031	Securities, Commodities, and Financial	13%	\$52,761	HIGH/HIGH	168	191	18	Bachelor's degree
Business, Marketing, and	Accounting and Financial Services	13-2041	Credit Analysts	9%	\$59,710	LOW/HIGH	33	36	3	Bachelor's degree
Business, Marketing, and	Accounting and Financial Services	13-2053	Insurance Underwriters	9%	\$61,360	LOW/HIGH	53	58	5	Bachelor's degree
Business, Marketing, and	Accounting and Financial Services	13-2072	Loan Officers	7%	\$67,422	LOW/HIGH	304	324	27	Bachelor's degree
Business, Marketing, and Finance	Accounting and Financial Services	13-1031	Claims Adjusters, Examiners, and Investigators	3%	\$73,465	LOW/HIGH	225	230	19	Some College, No Degree
Business, Marketing, and	Accounting and Financial Services, Rusiness Management	11-3011	Administrative Services and Facilities	17%	\$72,845	HIGH/HIGH	271	316	29	Bachelor's degree
Business, Marketing, and	Business Management	15-2031	Operations Research Analysts	55%	\$72,416	HIGH/HIGH	39	61	6	Bachelor's degree
Business, Marketing, and Finance	Business Management	13-1151	Training and Development Specialists	44%	\$44,818	HIGH/HIGH	181	259	29	Bachelor's degree
Business, Marketing, and Finance	Business Management	11-3131	Training and Development Managers	25%	\$129,843	HIGH/HIGH	37	47	5	Bachelor's degree

State Career Cluster	Program of Study	soc	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Business, Marketing, and	Business Management	13-1071	Human Resources Specialists	19%	\$50,471	HIGH/HIGH	425	506	53	Bachelor's degree
Business, Marketing, and	Business Management	13-1141	Compensation, Benefits, and Job Analysis	15%	\$58,691	HIGH/HIGH	44	51	5	Bachelor's degree
Business, Marketing, and	Business Management	11-3121	Human Resources Managers	12%	\$56,747	HIGH/HIGH	125	140	12	Bachelor's degree
Business, Marketing, and Finance	Business Management	43-1011	First-Line Supervisors of Office and Administrative Support Workers	10%	\$50,360	LOW/HIGH	1,249	1,369	142	Some College, No Degree
Business, Marketing, and	Business Management	43-4161	Human Resources Assistants, Except	1%	\$38,671	LOW/LOW	96	97	10	Associate's degree
Business, Marketing, and	Business Management, Entrepreneurship	13-1111	Management Analysts	35%	\$78,915	HIGH/HIGH	267	362	38	Master's degree
Business, Marketing, and	Business Management, Entrepreneurship	11-1021	General and Operations Managers	16%	\$71,358	HIGH/HIGH	2,495	2,899	263	Bachelor's degree
Business, Marketing, and	Entrepreneurship	11-9198	Personal Service Managers, All Other;	26%	\$60,163	HIGH/HIGH	846	1,069	92	Bachelor's degree
Business, Marketing, and	Entrepreneurship	11-1011	Chief Executives	17%	\$131,692	HIGH/HIGH	176	206	16	Bachelor's degree
Business, Marketing, and	Marketing and Sales	13-1161	Market Research Analysts and Marketing	55%	\$45,865	HIGH/HIGH	189	292	34	Bachelor's degree
Business, Marketing, and	Marketing and Sales	11-3061	Purchasing Managers	22%	\$114,306	HIGH/HIGH	42	52	5	Bachelor's degree
Business, Marketing, and	Marketing and Sales	41-4012	Sales Representatives, Wholesale and Manufacturing Except Technical	18%	\$54,072	HIGH/HIGH	797	943	100	Some College, No Degree
Business, Marketing, and	Marketing and Sales	41-3021	Insurance Sales Agents	13%	\$40,632	HIGH/HIGH	555	628	62	Recognized Industry

State Career Cluster	Program of Study	SOC	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Business, Marketing, and Finance	Marketing and Sales	41-1011	First-Line Supervisors of Retail Sales Workers	7%	\$38,081	LOW/LOW	1,438	1,536	169	Some College, No Degree
Business, Marketing, and		13-2082	Tax Preparers	31%	\$39,993	HIGH/HIGH	35	47	6	Recognized Industry
Business, Marketing, and		13-1032	Insurance Appraisers, Auto Damage	27%	\$53,093	HIGH/HIGH	10	13	1	Associate's degree
Business, Marketing, and		11-2022	Sales Managers	23%	\$110,169	HIGH/HIGH	178	219	21	Bachelor's degree
Business, Marketing, and		13-1198	Project Management Specialists and Ruciness Operations Specialists	23%	\$62,500	HIGH/HIGH	744	918	77	Bachelor's degree
Business, Marketing, and		41-9022	Real Estate Sales Agents	22%	\$45,144	HIGH/HIGH	307	375	37	Recognized Industry
Business, Marketing, and		41-9021	Real Estate Brokers	22%	\$70,438	HIGH/HIGH	86	105	10	Recognized Industry
Business, Marketing, and		11-2031	Public Relations and Fundraising Managers	20%	\$80,474	HIGH/HIGH	63	76	7	Bachelor's degree
Business, Marketing, and Finance		27-3031	Public Relations Specialists	18%	\$48,623	HIGH/HIGH	149	176	18	Bachelor's degree
Business, Marketing, and Finance		41-1012	First-Line Supervisors of Non- Retail Sales Workers	14%	\$58,925	HIGH/HIGH	224	256	25	Some College, No Degree
Business, Marketing, and Finance		23-2093	Title Examiners, Abstractors, and Searchers	14%	\$39,960	HIGH/HIGH	100	114	12	Some College, No Degree

State Career Cluster	Program of Study	SOC	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Business, Marketing, and Finance		13-2031	Budget Analysts	9%	\$64,926	LOW/HIGH	19	20	2	Bachelor's degree
Business, Marketing, and Finance		13-1075	Labor Relations Specialists	(2%)	\$57,488	LOW/HIGH	24	24	2	Bachelor's degree
Business, Marketing, and Finance		43-6011	Executive Secretaries and Executive Administrative Assistants	(8%)	\$45,298	LOW/HIGH	351	323	37	Some College, No Degree
Business, Marketing, and Finance		41-9041	Telemarketers	202%	\$22,316	HIGH/LOW	25	76	14	High school diploma or equivalent
Business, Marketing, and Finance		43-3011	Bill and Account Collectors	63%	\$32,615	HIGH/LOW	118	191	25	High school diploma or equivalent
Business, Marketing, and Finance		41-9011	Demonstrators and Product Promoters	37%	\$29,931	HIGH/LOW	25	34	6	High school diploma or equivalent
Business, Marketing, and Finance		43-4051	Customer Service Representatives	36%	\$30,468	HIGH/LOW	1,831	2,483	344	High school diploma or equivalent
Business, Marketing, and		41-3091	Sales Representatives of Services, Except	33%	\$36,761	HIGH/LOW	520	689	86	Bachelor's degree
Business, Marketing, and		43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	30%	\$22,527	HIGH/LOW	60	78	10	High school diploma or
Business, Marketing, and		53-3031	Driver/Sales Workers	28%	\$31,595	HIGH/LOW	384	492	58	High school diploma or

State Career Cluster	Program of Study	SOC	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Business, Marketing, and		43-9071	Office Machine Operators, Except	27%	\$31,918	HIGH/LOW	23	29	4	High school diploma or
Business, Marketing, and		43-4041	Credit Authorizers, Checkers, and Clerks	25%	\$34,777	HIGH/LOW	12	15	2	Some College, No Degree
Business, Marketing, and		41-2021	Counter and Rental Clerks	25%	\$27,522	HIGH/LOW	408	509	62	High school diploma or
Business, Marketing, and		43-9199	Office and Administrative Support Workers, All Other	23%	\$39,112	HIGH/LOW	110	135	16	Some College, No Degree
Business, Marketing, and		43-3099	Financial Clerks, All Other	14%	\$37,758	HIGH/LOW	30	34	4	Some College, No Degree
Business, Marketing, and Finance		43-4171	Receptionists and Information Clerks	12%	\$25,503	HIGH/LOW	649	729	95	High school diploma or equivalent
Business, Marketing, and		27-1026	Merchandise Displayers and Window	10%	\$29,749	LOW/LOW	124	137	13	Some College, No Degree
Business, Marketing, and		41-2031	Retail Salespersons	10%	\$25,574	LOW/LOW	3,588	3,938	566	High school diploma or
Business, Marketing, and		53-6031	Automotive and Watercraft Service	8%	\$25,431	LOW/LOW	141	153	21	High school diploma or
Business, Marketing, and		53-7065	Stockers and Order Fillers	8%	\$26,125	LOW/LOW	1,925	2,084	328	High school diploma or
Business, Marketing, and Finance		43-4199	Information and Record Clerks, All Other	7%	\$35,213	LOW/LOW	203	218	24	Some College, No Degree
Business, Marketing, and Finance		43-3031	Bookkeeping, Accounting, and Auditing Clerks	7%	\$35,348	LOW/LOW	1,422	1,521	174	Some College, No Degree

State Career Cluster	Program of Study	SOC	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Business, Marketing, and Finance		41-9099	Sales and Related Workers, All Other	7%	\$28,558	LOW/LOW	261	278	37	Some College, No Degree
Business, Marketing, and Finance		43-6013	Medical Secretaries and Administrative Assistants	6%	\$30,077	LOW/LOW	1,295	1,378	155	Some College, No Degree
Business, Marketing, and Finance		43-9041	Insurance Claims and Policy Processing Clerks	6%	\$35,034	LOW/LOW	229	242	24	High school diploma or equivalent
Business, Marketing, and Finance		41-3011	Advertising Sales Agents	5%	\$38,051	LOW/LOW	50	53	7	Some College, No Degree
Business, Marketing, and Finance		27-1023	Floral Designers	4%	\$24,733	LOW/LOW	55	57	7	High school diploma or equivalent
Business, Marketing, and		43-9061	Office Clerks, General	2%	\$29,082	LOW/LOW	3,488	3,569	416	High school diploma or
Business, Marketing, and Finance		43-4131	Loan Interviewers and Clerks	1%	\$34,603	LOW/LOW	239	240	23	Associate's degree
Business, Marketing, and Finance		43-4121	Library Assistants, Clerical	0%	\$23,160	LOW/LOW	165	165	26	Some College, No Degree
Business, Marketing, and Finance		43-4071	File Clerks	(0%)	\$28,606	LOW/LOW	70	70	9	High school diploma or equivalent

State Career Cluster	Program of Study	SOC	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Business, Marketing, and Finance		43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	(3%)	\$30,342	LOW/LOW	2,499	2,417	266	High school diploma or equivalent
Business, Marketing, and Finance		43-3051	Payroll and Timekeeping Clerks	(4%)	\$39,218	LOW/LOW	109	105	12	Some College, No Degree
Business, Marketing, and Finance		43-3061	Procurement Clerks	(5%)	\$34,808	LOW/LOW	67	64	6	Associate's degree
Business, Marketing, and Finance		43-3071	Tellers	(9%)	\$25,686	LOW/LOW	655	598	68	High school diploma or equivalent
Business, Marketing, and Finance		43-6012	Legal Secretaries and Administrative Assistants	(9%)	\$35,828	LOW/LOW	24	22	3	Some College, No Degree
Business, Marketing, and Finance		43-4141	New Accounts Clerks	(10%)	\$31,883	LOW/LOW	150	135	14	High school diploma or equivalent
Business, Marketing, and Finance		43-4151	Order Clerks	(11%)	\$33,969	LOW/LOW	155	138	16	High school diploma or equivalent
Business, Marketing, and Finance		43-5021	Couriers and Messengers	(12%)	\$22,681	LOW/LOW	102	90	10	High school diploma or equivalent
Business, Marketing, and Finance		43-9021	Data Entry Keyers	(14%)	\$28,202	LOW/LOW	112	97	12	High school diploma or equivalent

State Career Cluster Business,	Program of Study	SOC 43-9022	Occupational Title Word Processors and Typists	Growth Rate (25%)	Median Annual Wage \$35,539	Growth Wage Category LOW/LOW	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement High school
Marketing, and Finance		43 3022	Word Frocessors und Typists	(2370)	<i>433,333</i>	2000/2000	33	30	7	diploma or equivalent
Business, Marketing, and Finance		41-9091	Door-to-Door Sales Workers, News and Street Vendors, and Related Workers	(31%)	\$30,685	LOW/LOW	64	44	7	High school diploma or equivalent
Education and Training	Early Learning	27-3091	Interpreters and Translators	21%	\$59,010	HIGH/HIGH	131	159	16	Bachelor's degree
Education and Training	Early Learning	25-2052	Special Education Teachers, Kindergarten and Elementary School	15%	\$48,162	HIGH/HIGH	132	152	12	Bachelor's degree
Education and Training	Early Learning	25-2051	Special Education Teachers, Preschool	11%	\$52,306	HIGH/HIGH	30	33	3	Bachelor's degree
Education and Training	Early Learning	25-2021	Elementary School Teachers, Except Special Education	11%	\$47,280	HIGH/HIGH	1,522	1,683	132	Bachelor's degree
Education and Training	Early Learning	25-2012	Kindergarten Teachers, Except Special Education	10%	\$46,411	LOW/HIGH	127	139	15	Bachelor's degree
Education and Training	Early Learning	11-9032	Education Administrators, Kindergarten through Secondary	10%	\$74,619	LOW/HIGH	350	384	30	Master's degree
Education and Training	Early Learning	25-2011	Preschool Teachers, Except Special Education	21%	\$36,231	HIGH/LOW	363	440	48	Associate's degree

State Career Cluster	Program of Study	SOC	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Education and Training	Early Learning	11-9031	Education and Childcare Administrators, Preschool and Daycare	16%	\$38,709	HIGH/LOW	44	51	4	Bachelor's degree
Education and Training	Early Learning, Teaching and Training	25-2058	Special Education Teachers, Secondary School	11%	\$48,845	HIGH/HIGH	136	151	12	Bachelor's degree
Education and Training	Teaching and Training	25-2059	Special Education Teachers, All Other	20%	\$50,556	HIGH/HIGH	32	38	3	Bachelor's degree
Education and Training	Teaching and Training	25-2057	Special Education Teachers, Middle School	16%	\$48,405	HIGH/HIGH	42	49	4	Bachelor's degree
Education and Training	Teaching and Training	25-2031	Secondary School Teachers, Except Special and Career/Technical Education	10%	\$50,056	LOW/HIGH	1,204	1,327	100	Bachelor's degree
Education and Training	Teaching and Training	25-2032	Career/Technical Education Teachers, Secondary School	6%	\$49,359	LOW/HIGH	153	163	12	Bachelor's degree
Education and Training	Teaching and Training	25-3011	Adult Basic Education, Adult Secondary Education, and English as a Second	(8%)	\$30,436	LOW/LOW	43	40	5	Bachelor's degree
Education and Training		11-9039	Education Administrators, All Other	45%	\$68,692	HIGH/HIGH	38	55	5	Master's degree
Education and Training		25-9031	Instructional Coordinators	28%	\$64,753	HIGH/HIGH	199	255	27	Master's degree

State Career Cluster	Program of Study	SOC	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Education and Training	,	19-4061	Social Science Research Assistants	23%	\$41,216	HIGH/HIGH	31	38	5	Bachelor's degree
Education and Training		25-3097	Tutors and Teachers and Instructors, All Other	22%	\$50,076	HIGH/HIGH	463	567	70	Bachelor's degree
Education and Training		21-1012	Educational, Guidance, and Career Counselors and Advisors	19%	\$54,400	HIGH/HIGH	400	476	48	Master's degree
Education and Training		25-1099	Postsecondary Teachers	17%	\$59,448	HIGH/HIGH	1,339	1,566	167	Doctoral or professional degree
Education and Training		11-9033	Education Administrators, Postsecondary	14%	\$83,589	HIGH/HIGH	109	124	11	Master's degree
Education and Training		25-4022	Librarians and Media Collections Specialists	12%	\$49,619	HIGH/HIGH	103	115	11	Master's degree
Education and Training		25-2022	Middle School Teachers, Except Special and Career/Technical Education	9%	\$48,542	LOW/HIGH	893	978	76	Bachelor's degree
Education and Training		25-4011	Archivists	8%	\$69,434	LOW/HIGH	27	29	3	Master's degree
Education and Training		25-9099	Educational Instruction and Library Workers, All Other	66%	\$30,235	HIGH/LOW	55	92	11	Bachelor's degree

State Career Cluster Education and	Program of Study	SOC 25-3021	Occupational Title Self-Enrichment Teachers	Growth Rate 29%	Median Annual Wage \$33,834	Growth Wage Category HIGH/LOW	Annual Average Employment 2020	Annual Average Employment 2030 319	Total Annual Openings	Competitive Education Requirement Some College,
Training		25-3021	Sen-Emiliant leachers	23/0	733,834	mon, Low	240	313	40	No Degree
Education and Training		25-9045	Teaching Assistants, Except Postsecondary	12%	\$20,673	HIGH/LOW	1,350	1,518	149	Some college, no degree
Education and Training		25-9044	Teaching Assistants, Postsecondary	12%	\$30,124	HIGH/LOW	246	275	28	Bachelor's degree
Education and Training		25-3031	Substitute Teachers, Short-Term	12%	\$20,314	HIGH/LOW	1,126	1,256	149	Bachelor's degree
Education and Training		25-4031	Library Technicians	3%	\$27,766	LOW/LOW	77	80	12	Associate's degree
Energy	Oil and Gas Exploration and Production	47-5012	Rotary Drill Operators, Oil and Gas	4%	\$65,743	LOW/HIGH	114	119	17	High school diploma or equivalent
Energy	Oil and Gas Exploration and Production	47-5098	Underground Mining Machine Operators and Extraction Workers, All Other	(6%)	\$41,960	LOW/HIGH	19	18	3	High school diploma or equivalent
Energy	Oil and Gas Exploration and Production	47-5081	HelpersExtraction Workers	(0%)	\$33,782	LOW/LOW	200	200	27	High school diploma or equivalent
Energy	Refining and Chemical Processes	51-8092	Gas Plant Operators	6%	\$61,165	LOW/HIGH	34	36	4	High school diploma or equivalent

State Career Cluster	Program of Study	SOC	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Energy	Refining and Chemical Processes	51-8013	Power Plant Operators	5%	\$76,749	LOW/HIGH	34	36	4	Recognized Industry Credential
Energy	Refining and Chemical Processes	51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers	0%	\$75,616	LOW/HIGH	114	114	14	Associate's degree
Energy		51-8012	Power Distributors and Dispatchers	26%	\$84,712	HIGH/HIGH	16	20	2	Recognized Industry Credential
Energy		53-7071	Gas Compressor and Gas Pumping Station Operators	16%	\$41,928	HIGH/HIGH	12	14	2	High school diploma or equivalent
Energy		47-5011	Derrick Operators, Oil and Gas	7%	\$43,635	LOW/HIGH	80	85	12	High school diploma or equivalent
Energy		53-7072	Pump Operators, Except Wellhead Pumpers	6%	\$45,476	LOW/HIGH	62	66	9	High school diploma or equivalent
Energy		47-5013	Service Unit Operators, Oil and Gas	4%	\$45,685	LOW/HIGH	410	426	58	High school diploma or equivalent
Energy		53-7073	Wellhead Pumpers	(4%)	\$67,987	LOW/HIGH	170	164	20	High school diploma or equivalent

State Career Cluster	Program of Study	SOC	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	2030	Total Annual Openings	Competitive Education Requirement
Energy		47-5071	Roustabouts, Oil and Gas	4%	\$36,928	LOW/LOW	426	443	61	High school diploma or equivalent
Health Science	Exercise Science and Wellness	29-9091	Athletic Trainers	28%	\$52,594	нібн/нібн	25	32	3	Bachelor's degree
Health Science	Exercise Science and Wellness	39-9031	Exercise Trainers and Group Fitness Instructors	82%	\$33,567	HIGH/LOW	166	302	50	Recognized Industry Credential
Health Science	Exercise Science and Wellness	27-2022	Coaches and Scouts	23%	\$36,623	HIGH/LOW	264	325	46	Bachelor's degree
Health Science	Exercise Science and Wellness	29-1128	Exercise Physiologists	8%	\$39,265	LOW/LOW	15	16	1	Master's degree
Health Science	Exercise Science and Wellness, Healthcare Therapeutic		Dietitians and Nutritionists	12%	\$54,673	HIGH/HIGH	40	44	4	Bachelor's degree

State Career Cluster	Program of Study	SOC	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Health Science	Health Informatics	11-9111	Medical and Health Services Managers	25%	\$91,845	HIGH/HIGH	426	535	48	Bachelor's degree
Health Science	Health Informatics	29-9098	Health Information Technologists, Medical Registrars, Surgical Assistants, and Healthcare Practitioners	20%	\$47,843	HIGH/HIGH	54	65	6	Recognized Industry Credential
Health Science	Health Informatics	43-3021	Billing and Posting Clerks	17%	\$34,282	HIGH/LOW	328	383	43	High school diploma or equivalent
Health Science	Healthcare Diagnostics	29-2032	Diagnostic Medical Sonographers	43%	\$68,235	HIGH/HIGH	20	29	3	Associate's degree
Health Science	Healthcare Diagnostics	29-2035	Magnetic Resonance Imaging Technologists	18%	\$71,912	HIGH/HIGH	14	16	1	Associate's degree
Health Science	Healthcare Diagnostics	29-2031	Cardiovascular Technologists and Technicians	9%	\$42,501	LOW/HIGH	56	61	5	Associate's degree

State Career Cluster	Program of Study	SOC	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Health Science	Healthcare Diagnostics	29-2018	Clinical Laboratory Technologists and Technicians	8%	\$40,918	LOW/HIGH	283	307	23	Bachelor's degree
Health Science	Healthcare Diagnostics	29-2034	Radiologic Technologists and Technicians	8%	\$58,761	LOW/HIGH	248	268	21	Associate's degree
Health Science	Healthcare Diagnostics	29-2057	Ophthalmic Medical Technicians	16%	\$32,534	HIGH/LOW	148	172	14	Recognized Industry Credential
Health Science	Healthcare Diagnostics	31-9097	Phlebotomists	7%	\$33,018	LOW/LOW	151	162	20	Recognized Industry Credential
Health Science	Healthcare Diagnostics, Healthcare Therapeutic	29-1292	Dental Hygienists	20%	\$76,306	HIGH/HIGH	139	167	12	Associate's degree
Health Science	Healthcare Therapeutic	29-1041	Optometrists	50%	\$104,272	HIGH/HIGH	26	38	2	Doctoral or professional degree
Health Science	Healthcare Therapeutic	29-1071	Physician Assistants	37%	\$112,573	HIGH/HIGH	89	122	9	Master's degree
Health Science	Healthcare Therapeutic	29-1215	Family Medicine Physicians	21%	\$187,993	HIGH/HIGH	42	51	2	Doctoral or professional degree

State Career Cluster	Program of Study	SOC	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	2030	Total Annual Openings	Competitive Education Requirement
Health Science	Healthcare Therapeutic	29-1223	Psychiatrists	20%	\$191,399	HIGH/HIGH	28	34	1	Doctoral or professional degree
Health Science	Healthcare Therapeutic	29-1228	Physicians, All Other; and Ophthalmologists, Except Pediatric	19%	\$291,782	HIGH/HIGH	223	265	11	Doctoral or professional degree
Health Science	Healthcare Therapeutic	29-1021	Dentists, General	17%	\$161,913	HIGH/HIGH	76	89	4	Doctoral or professional
Health Science	Healthcare Therapeutic	29-1221	Pediatricians, General	11%	\$152,487	HIGH/HIGH	13	14	1	Doctoral or professional degree
Health Science	Healthcare Therapeutic	29-2055	Surgical Technologists	9%	\$40,631	LOW/HIGH	112	122	10	Recognized Industry Credential
Health Science	Healthcare Therapeutic	29-1211	Anesthesiologists	8%	\$212,357	LOW/HIGH	21	22	1	Doctoral or professional degree
Health Science	Healthcare Therapeutic	29-1248	Surgeons, Except Ophthalmologists	7%	\$193,382	LOW/HIGH	54	58	2	Doctoral or professional degree
Health Science	Healthcare Therapeutic	29-1051	Pharmacists	2%	\$126,592	LOW/HIGH	284	291	13	Doctoral or professional degree
Health Science	Healthcare Therapeutic	29-1216	General Internal Medicine Physicians	2%	\$234,818	LOW/HIGH	152	154	5	Doctoral or professional degree

State Career Cluster	Program of Study	SOC	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Health Science	Healthcare Therapeutic	29-1081	Podiatrists	1%	\$129,190	LOW/HIGH	10	11	1	Doctoral or professional degree
Health Science	Healthcare Therapeutic	29-1218	Obstetricians and Gynecologists	(1%)	\$175,526	LOW/HIGH	14	13	0	Doctoral or professional degree
Health Science	Healthcare Therapeutic	31-9092	Medical Assistants	19%	\$30,285	HIGH/LOW	706	841	105	Recognized Industry Credential
Health Science	Healthcare Therapeutic	31-9091	Dental Assistants	14%	\$35,899	HIGH/LOW	290	331	41	Recognized Industry Credential
Health Science	Healthcare Therapeutic	29-2098	Medical Dosimetrists, Medical Records	14%	\$38,176	HIGH/LOW	305	348	28	Associate's degree
Health Science	Healthcare Therapeutic	29-2052	Pharmacy Technicians	7%	\$34,349	LOW/LOW	419	448	35	Recognized Industry Credential
Health Science	Healthcare Therapy	31-2011	Occupational Therapy Assistants	17%	\$70,919	HIGH/HIGH	26	31	4	Associate's degree
Health Science	Medical Therapy	29-1126	Respiratory Therapists	27%	\$54,363	HIGH/HIGH	116	147	10	Associate's degree
Health Science	Medical Therapy	29-1127	Speech-Language Pathologists	20%	\$74,474	HIGH/HIGH	203	244	17	Master's degree

State Career Cluster	Program of Study	soc	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Health Science	Medical Therapy	31-2021	Physical Therapist Assistants	19%	\$61,900	HIGH/HIGH	56	66	8	Associate's degree
Health Science	Medical Therapy	29-1122	Occupational Therapists	13%	\$90,928	HIGH/HIGH	117	131	8	Master's degree
Health Science	Medical Therapy	29-1123	Physical Therapists	9%	\$95,406	LOW/HIGH	260	284	14	Master's degree
Health Science	Nursing Science	29-1171	Nurse Practitioners	45%	\$113,559	HIGH/HIGH	244	353	27	Master's degree
Health Science	Nursing Science	29-1151	Nurse Anesthetists	14%	\$156,135	HIGH/HIGH	103	117	7	Master's degree
Health Science	Nursing Science	29-1141	Registered Nurses	10%	\$65,437	LOW/HIGH	2,765	3,034	186	Bachelor's degree
Health Science	Nursing Science	29-2061	Licensed Practical and Licensed Vocational Nurses	(3%)	\$43,278	LOW/HIGH	1,399	1,353	108	Recognized Industry
Health Science		29-1011	Chiropractors	31%	\$74,951	HIGH/HIGH	24	31	2	Doctoral or professional
Health Science		29-1298	Acupuncturists and Healthcare Diagnosing or Treating	20%	\$55,927	HIGH/HIGH	23	27	2	Master's degree
Health Science		29-1129	Therapists, All Other	16%	\$66,401	HIGH/HIGH	23	27	2	Bachelor's degree
Health Science		21-1091	Health Education Specialists	9%	\$41,429	LOW/HIGH	59	64	7	Bachelor's degree
Health Science		31-9094	Medical Transcriptionists	46%	\$34,918	HIGH/LOW	61	89	14	Recognized Industry

State Career Cluster	Program of Study	soc	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	2030	Total Annual Openings	Competitive Education Requirement
Health Science		51-9083	Ophthalmic Laboratory Technicians	25%	\$30,600	HIGH/LOW	11	14	2	High school diploma or
Health Science		29-2053	Psychiatric Technicians	14%	\$27,348	HIGH/LOW	58	67	5	Recognized Industry Credential
Health Science		29-2081	Opticians, Dispensing	13%	\$29,525	HIGH/LOW	78	88	8	Recognized Industry Credential
Health Science		31-9093	Medical Equipment Preparers	9%	\$29,122	LOW/LOW	72	78	10	High school diploma or equivalent
Health Science		31-1128	Home Health and Personal Care Aides	9%	\$19,946	LOW/LOW	4,188	4,573	663	High school diploma or equivalent
Health Science		31-2022	Physical Therapist Aides	8%	\$24,160	LOW/LOW	117	126	16	Recognized Industry Credential
Health Science		31-9099	Healthcare Support Workers, All Other	6%	\$25,522	LOW/LOW	137	146	18	High school diploma or
Health Science		31-1133	Psychiatric Aides	6%	\$25,460	LOW/LOW	53	56	8	High school diploma/GED
Health Science		31-1132	Orderlies	6%	\$23,915	LOW/LOW	49	52	7	High school diploma/GED
Health Science		31-1131	Nursing Assistants	(1%)	\$24,654	LOW/LOW	1,489	1,469	184	Recognized Industry
Health Science		29-2051	Dietetic Technicians	(2%)	\$19,614	LOW/LOW	30	30	2	Associate's degree

State Career Cluster Health Science	Program of Study	SOC 31-9095	Occupational Title Pharmacy Aides	Growth Rate (6%)	Median Annual Wage \$22,750	Growth Wage Category LOW/LOW	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement High school
Hospitality and	Culinary Arts	35-1011	Chefs and Head Cooks	61%	\$41,429	HIGH/HIGH	59	95	13	diploma or Associate's
Tourism										degree
Hospitality and Tourism	Culinary Arts	19-4011	Agricultural and Food Science Technicians	40%	\$40,853	нібн/нібн	14	20	3	Associate's degree
Hospitality and Tourism	Culinary Arts	35-1012	First-Line Supervisors of Food Preparation and Serving Workers	33%	\$30,038	HIGH/LOW	952	1,267	193	High school diploma or equivalent
Hospitality and Tourism	Culinary Arts, Lodging and Resort	13-1121	Meeting, Convention, and Event Planners	50%	\$41,758	HIGH/HIGH	64	96	12	Bachelor's degree
Hospitality and Tourism	Culinary Arts, Lodging and Resort	11-1021	General and Operations Managers	16%	\$71,358	HIGH/HIGH	2,495	2,899	263	Bachelor's degree
Hospitality and Tourism	Culinary Arts, Lodging and Resort	11-9051	Food Service Managers	37%	\$39,908	HIGH/LOW	187	257	31	Some College, No Degree
Hospitality and Tourism	Lodging and Resort Management	11-9081	Lodging Managers	59%	\$41,853	HIGH/HIGH	49	78	10	Bachelor's degree
Hospitality and Tourism	Lodging and Resort Management	11-3011	Administrative Services and Facilities	17%	\$72,845	HIGH/HIGH	271	316	29	Bachelor's degree
Hospitality and Tourism	Travel, Tourism, and Attractions	13-1161	Market Research Analysts and Marketing	55%	\$45,865	HIGH/HIGH	189	292	34	Bachelor's degree
Hospitality and Tourism	Travel, Tourism, and Attractions	13-1131	Fundraisers	18%	\$44,278	HIGH/HIGH	91	108	11	Bachelor's degree

State Career Cluster	Program of Study	SOC	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Hospitality and Tourism	Travel, Tourism, and Attractions	11-2011	Advertising and Promotions Managers	18%	\$99,358	HIGH/HIGH	12	14	2	Bachelor's degree
Hospitality and Tourism	Travel, Tourism, and Attractions	11-2021	Marketing Managers	13%	\$116,070	HIGH/HIGH	280	318	29	Bachelor's degree
Hospitality and Tourism		39-3031	Ushers, Lobby Attendants, and Ticket Takers	278%	\$22,060	HIGH/LOW	38	145	29	High school diploma or equivalent
Hospitality and Tourism		39-6011	Baggage Porters and Bellhops	86%	\$20,312	HIGH/LOW	12	22	3	High school diploma or equivalent
Hospitality and Tourism		39-3091	Amusement and Recreation Attendants	83%	\$20,499	HIGH/LOW	108	197	40	High school diploma or equivalent
Hospitality and Tourism		41-3041	Travel Agents	80%	\$33,304	HIGH/LOW	11	21	3	Some College, No Degree
Hospitality and Tourism		53-6021	Parking Attendants	77%	\$21,555	HIGH/LOW	34	61	10	High school diploma or equivalent
Hospitality and Tourism		35-2014	Cooks, Restaurant	72%	\$24,048	HIGH/LOW	974	1,675	255	High school diploma or equivalent
Hospitality and Tourism		35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	69%	\$19,314	HIGH/LOW	182	308	67	High school diploma or equivalent

State Career Cluster Hospitality and	Program of Study	SOC 35-3011	Occupational Title Bartenders	Growth Rate 68%	Median Annual Wage \$18,929	Growth Wage Category HIGH/LOW	Annual Average Employment 2020	Annual Average Employment 2030 477	Total Annual Openings 80	Competitive Education Requirement High school
Tourism		55-5011	bartenuers	00%	\$10,929	HIGH/LOW	204	4//	80	diploma or equivalent
Hospitality and Tourism		35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	60%	\$21,237	HIGH/LOW	229	366	63	No formal educational credential
Hospitality and Tourism		43-4081	Hotel, Motel, and Resort Desk Clerks	49%	\$21,425	HIGH/LOW	264	392	65	High school diploma or equivalent
Hospitality and Tourism		39-6012	Concierges	47%	\$28,928	HIGH/LOW	15	21	3	High school diploma or equivalent
Hospitality and Tourism		35-3031	Waiters and Waitresses	44%	\$18,258	HIGH/LOW	1,780	2,559	487	High school diploma or equivalent
Hospitality and Tourism		35-9021	Dishwashers	43%	\$19,736	HIGH/LOW	301	432	70	No formal educational credential
Hospitality and Tourism		39-7018	Tour and Travel Guides	39%	\$28,536	HIGH/LOW	26	36	7	High school diploma or equivalent
Hospitality and Tourism		35-9099	Food Preparation and Serving Related Workers, All Other	35%	\$18,490	HIGH/LOW	64	86	15	No formal educational credential
Hospitality and Tourism		35-2019	Cooks, All Other	29%	\$18,851	HIGH/LOW	12	16	2	High school diploma or equivalent

State Career Cluster	Program of Study	SOC	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Hospitality and Tourism		51-3011	Bakers	28%	\$25,254	HIGH/LOW	109	140	19	High school diploma or equivalent
Hospitality and Tourism		37-1011	First-Line Supervisors of Housekeeping and Janitorial Workers	28%	\$35,225	HIGH/LOW	147	188	23	High school diploma or equivalent
Hospitality and Tourism		53-6061	Passenger Attendants	25%	\$24,004	HIGH/LOW	16	19	3	High school diploma or equivalent
Hospitality and Tourism		35-2015	Cooks, Short Order	24%	\$18,406	HIGH/LOW	100	125	19	High school diploma or equivalent
Hospitality and Tourism		35-2021	Food Preparation Workers	23%	\$20,700	HIGH/LOW	543	669	115	No formal educational credential
Hospitality and Tourism		37-2019	Building Cleaning Workers, All Other	23%	\$27,510	HIGH/LOW	11	13	2	No formal educational credential
Hospitality and Tourism		35-3023	Fast Food and Counter Workers	22%	\$19,812	HIGH/LOW	4,773	5,845	1,187	No formal educational credential
Hospitality and Tourism		43-4181	Reservation and Transportation Ticket Agents and Travel Clerks	22%	\$24,054	HIGH/LOW	110	135	16	High school diploma or equivalent
Hospitality and Tourism		35-3041	Food Servers, Nonrestaurant	15%	\$19,651	HIGH/LOW	173	200	32	No formal educational

State Career Cluster	Program of Study	SOC	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Hospitality and Tourism		39-2011	Animal Trainers	14%	\$24,736	HIGH/LOW	63	73	9	High school diploma or equivalent
Hospitality and Tourism		37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	13%	\$24,026	HIGH/LOW	2,118	2,394	327	High school diploma or equivalent
Hospitality and Tourism		39-9032	Recreation Workers	12%	\$22,130	HIGH/LOW	296	331	51	Bachelor's degree
Hospitality and Tourism		35-2011	Cooks, Fast Food	10%	\$19,230	LOW/LOW	658	725	107	No formal educational
Hospitality and Tourism		43-2011	Switchboard Operators, Including Answering Service	10%	\$22,969	LOW/LOW	61	67	8	High school diploma or equivalent
Hospitality and Tourism		37-2012	Maids and Housekeeping Cleaners	7%	\$20,877	LOW/LOW	1,689	1,799	252	No formal educational credential
Hospitality and Tourism		39-3011	Gambling Dealers	6%	\$23,001	LOW/LOW	30	32	5	High school diploma or equivalent
Hospitality and Tourism		35-2012	Cooks, Institution and Cafeteria	2%	\$23,193	LOW/LOW	484	493	72	No formal educational credential
Hospitality and Tourism		41-2011	Cashiers	(1%)	\$21,411	LOW/LOW	4,089	4,054	759	High school diploma or equivalent

State Career Cluster	Program of Study	soc	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Human Services	Cosmetology and Personal Care Services	39-5092	Manicurists and Pedicurists	69%	\$24,782	HIGH/LOW	46	78	10	Recognized Industry Credential
Human Services	Cosmetology and Personal Care Services	39-5094	Skincare Specialists	54%	\$33,130	HIGH/LOW	36	56	7	Recognized Industry Credential
Human Services	Cosmetology and Personal Care Services	39-1098	First-Line Supervisors of Personal Service and Entertainment and Recreation	38%	\$36,477	HIGH/LOW	135	186	22	Some College, No Degree
Human Services	Cosmetology and Personal Care Services	39-5011	Barbers	29%	\$26,166	HIGH/LOW	97	126	14	Recognized Industry Credential
Human Services	Cosmetology and Personal Care Services	39-5012	Hairdressers, Hairstylists, and Cosmetologists	18%	\$27,538	HIGH/LOW	552	654	78	Recognized Industry Credential
Human Services	Family and Community Services	21-1013	Marriage and Family Therapists	21%	\$47,945	HIGH/HIGH	33	39	4	Master's degree
Human Services	Family and Community Services	11-9151	Social and Community Service Managers	13%	\$58,943	HIGH/HIGH	113	128	12	Bachelor's degree
Human Services	Family and Community Services	21-1023	Mental Health and Substance Abuse Social Workers	10%	\$40,703	LOW/HIGH	129	142	14	Bachelor's degree
Human Services	Family and Community Services	21-1021	Child, Family, and School Social Workers	5%	\$49,966	LOW/HIGH	347	364	35	Bachelor's degree

State Career Cluster	Program of Study	SOC	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Human Services	Family and Community Services		Social and Human Service Assistants	9%	\$31,393	LOW/LOW	394	430	52	Some College, No Degree
Human Services	Family and Community Services, Health and Wellness		Substance Abuse, Behavioral Disorder, and Mental Health Counselors	25%	\$41,843	HIGH/HIGH	166	207	21	Master's degree
Human Services	Health and Wellness		Rehabilitation Counselors	18%	\$40,664	HIGH/HIGH	56	66	7	Master's degree
Human Services	Health and Wellness		Dietitians and Nutritionists	12%	\$54,673	HIGH/HIGH	40	44	4	Bachelor's degree
Human Services	Health and Wellness	21-1022	Healthcare Social Workers	7%	\$50,824	LOW/HIGH	177	190	18	Master's degree
Human Services	Health and Wellness	21-1094	Community Health Workers	11%	\$35,464	HIGH/LOW	79	87	9	Bachelor's degree
Human Services		19-3039	Psychologists, All Other	32%	\$90,483	HIGH/HIGH	28	37	3	Doctoral or professional degree
Human Services		19-3099	Social Scientists and Related Workers, All Other	21%	\$78,944	HIGH/HIGH	17	20	2	Bachelor's degree
Human Services		19-3031	Clinical, Counseling, and School Psychologists	14%	\$56,356	HIGH/HIGH	126	144	11	Doctoral or professional degree

State Career Cluster	Program of Study	soc	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Human Services		21-1019	Counselors, All Other	8%	\$44,240	LOW/HIGH	37	40	4	Master's degree
Human Services		21-2011	Clergy	3%	\$43,860	LOW/HIGH	437	449	48	Master's degree
Human Services		39-4031	Morticians, Undertakers, and Funeral	1%	\$54,433	LOW/HIGH	76	77	10	Associate's degree
Human Services		21-2021	Directors, Religious Activities and Education	(3%)	\$47,807	LOW/HIGH	222	216	26	Bachelor's degree
Human Services		31-9011	Massage Therapists	56%	\$37,429	HIGH/LOW	64	99	13	Recognized Industry Credential
Human Services		51-6011	Laundry and Dry-Cleaning Workers	28%	\$23,235	HIGH/LOW	186	238	33	No formal educational credential
Human Services		51-6052	Tailors, Dressmakers, and Custom Sewers	19%	\$22,654	HIGH/LOW	42	50	7	High school diploma or equivalent
Human Services		39-9041	Residential Advisors	17%	\$29,316	HIGH/LOW	85	100	15	Some College, No Degree
Human Services		21-1099	Community and Social Service Specialists, All Other	16%	\$35,521	HIGH/LOW	57	66	7	Bachelor's degree

State Career Cluster	Program of Study	soc	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Human Services		51-6021	Pressers, Textile, Garment, and Related Materials	14%	\$20,727	HIGH/LOW	84	96	11	No formal educational credential
Human Services		39-9098	Crematory Operators and Personal Care and Service Workers, All Other	10%	\$22,636	LOW/LOW	90	100	14	High school diploma or equivalent
Human Services		21-2099	Religious Workers, All Other	1%	\$31,461	LOW/LOW	103	104	14	Bachelor's degree
Human Services		39-9011	Childcare Workers	(1%)	\$19,142	LOW/LOW	1,470	1,458	213	High school diploma or equivalent
Human Services		39-4021	Funeral Attendants	(7%)	\$22,727	LOW/LOW	64	60	9	High school diploma or equivalent
Information Technology	Information Technology Support and Services	11-3021	Computer and Information Systems Managers	30%	\$117,797	HIGH/HIGH	143	186	16	Bachelor's degree
Information Technology	Information Technology Support and Services	15-1245	Database Administrators and Architects	27%	\$94,131	HIGH/HIGH	48	61	5	Bachelor's degree
Information Technology	Information Technology Support and Services	17-2061	Computer Hardware Engineers	6%	\$98,266	LOW/HIGH	16	17	1	Bachelor's degree
Information Technology	Information Technology Support and Services, Networking	15-1211	Computer Systems Analysts	23%	\$64,316	HIGH/HIGH	202	249	21	Bachelor's degree

State Career Cluster	Program of Study	SOC	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Information Technology	Information Technology Support and Services, Networking	15-1241	Computer Network Architects	21%	\$106,631	HIGH/HIGH	54	65	5	Bachelor's degree
Information Technology	Networking Systems	15-1231	Computer Network Support Specialists	21%	\$44,186	HIGH/HIGH	99	120	10	Associate's degree
Information Technology	Networking Systems	15-1232	Computer User Support Specialists	18%	\$43,530	нібн/нібн	367	433	36	Recognized Industry Credential
Information Technology	Web Development	15-1256	Software Developers and Software Quality Assurance Analysts and Testers	63%	\$93,090	HIGH/HIGH	232	378	37	Bachelor's degree
Information Technology	Web Development	15-1257	Web Developers and Digital Interface Designers	40%	\$52,920	HIGH/HIGH	53	74	7	Associate's degree
Information Technology	Web Development	15-1299	Computer Occupations, All Other	19%	\$46,070	HIGH/HIGH	157	187	16	Bachelor's degree
Law and Public Service	Emergency Services	33-1021	First-Line Supervisors of Firefighting and Prevention Workers	13%	\$55,416	HIGH/HIGH	23	26	2	Associate's degree
Law and Public Service	Emergency Services	33-2011	Firefighters	10%	\$46,773	LOW/HIGH	218	240	20	Recognized Industry Credential
Law and Public Service	Emergency Services	33-2021	Fire Inspectors and Investigators	6%	\$59,307	LOW/HIGH	16	18	2	Recognized Industry Credential

State Career Cluster	Program of Study	SOC	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Law and Public Service	Emergency Services	29-2041	Emergency Medical Technicians and Paramedics	8%	\$33,168	LOW/LOW	338	365	28	Recognized Industry Credential
Law and Public Service	Government and Public Administration	13-2098	Financial and Investment Analysts, Financial Risk Specialists, and Financial	24%	\$65,262	HIGH/HIGH	185	230	20	Bachelor's degree
Law and Public Service	Government and Public Administration	13-2011	Accountants and Auditors	18%	\$62,355	HIGH/HIGH	956	1,124	108	Bachelor's degree
Law and Public Service	Government and Public Administration	13-2061	Financial Examiners	17%	\$62,437	HIGH/HIGH	97	113	9	Bachelor's degree
Law and Public Service	Government and Public Administration	11-9141	Property, Real Estate, and Community Association Managers	15%	\$59,619	HIGH/HIGH	198	227	20	Some College, No Degree
Law and Public Service	Government and Public Administration	13-2021	Property Appraisers and Assessors	10%	\$50,830	LOW/HIGH	78	86	7	Bachelor's degree
Law and Public Service	Law Enforcement	33-1012	First-Line Supervisors of Police and Detectives	7%	\$72,267	LOW/HIGH	98	105	7	Bachelor's degree
Law and Public Service	Law Enforcement	33-3051	Police and Sheriffs Patrol Officers	5%	\$53,334	LOW/HIGH	840	885	73	Associate's degree
Law and Public Service	Law Enforcement	21-1092	Probation Officers and Correctional Treatment Specialists	(1%)	\$45,029	LOW/HIGH	133	131	11	Bachelor's degree

State Career Cluster Law and Public Service	Program of Study Law Enforcement	SOC 33-3021	Occupational Title Detectives and Criminal Investigators	Growth Rate (3%)	Median Annual Wage \$56,983	Growth Wage Category LOW/HIGH	Annual Average Employment 2020 126	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement Some College, No Degree
Law and Public Service	Law Enforcement	33-1011	First-Line Supervisors of Correctional Officers	(12%)	\$47,833	LOW/HIGH	192	169	14	Some College, No Degree
Law and Public Service	Law Enforcement	33-3012	Correctional Officers and Jailers	(14%)	\$40,531	LOW/HIGH	1,543	1,331	132	High school diploma or equivalent
Law and Public Service	Legal Studies	23-1011	Lawyers	15%	\$89,846	HIGH/HIGH	321	369	21	Doctoral or professional degree
Law and Public Service	Legal Studies	23-2011	Paralegals and Legal Assistants	13%	\$38,770	HIGH/LOW	210	238	27	Associate's degree
Law and Public Service		27-3092	Court Reporters and Simultaneous Captioners	30%	\$74,922	HIGH/HIGH	37	48	5	Recognized Industry Credential
Law and Public Service		13-1041	Compliance Officers	11%	\$56,895	HIGH/HIGH	188	209	18	Bachelor's degree
Law and Public Service		19-5012	Occupational Health and Safety Technicians	10%	\$42,923	LOW/HIGH	47	52	4	High school diploma/GED
Law and Public Service		21-1029	Social Workers, All Other	8%	\$58,286	LOW/HIGH	42	46	4	Bachelor's degree

State Career Cluster	Program of Study	soc	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Law and Public Service		19-5011	Occupational Health and Safety Specialists	8%	\$70,981	LOW/HIGH	146	157	12	Bachelor's degree
Law and Public Service		33-1099	Miscellaneous First-Line Supervisors, Protective Service Workers	8%	\$49,463	LOW/HIGH	32	34	4	Some College, No Degree
Law and Public Service		11-9161	Emergency Management Directors	5%	\$73,423	LOW/HIGH	22	23	2	Bachelor's degree
Law and Public Service		33-9021	Private Detectives and Investigators	3%	\$56,225	LOW/HIGH	125	129	12	Bachelor's degree
Law and Public Service		23-2099	Legal Support Workers, All Other	(1%)	\$45,556	LOW/HIGH	22	22	2	Associate's degree
Law and Public Service		43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	(3%)	\$49,904	LOW/HIGH	56	54	5	High school diploma or equivalent
Law and Public Service		33-3011	Bailiffs	(3%)	\$67,939	LOW/HIGH	76	74	7	High school diploma or equivalent
Law and Public Service		53-6051	Transportation Inspectors	(4%)	\$83,955	LOW/HIGH	80	78	8	Some College, No Degree
Law and Public Service		43-5052	Postal Service Mail Carriers	(4%)	\$47,173	LOW/HIGH	371	356	27	High school diploma or equivalent

State Career Cluster	Program of Study	SOC	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Law and Public Service		43-5051	Postal Service Clerks	(5%)	\$46,032	LOW/HIGH	128	121	11	High school diploma or equivalent
Law and Public Service		19-3051	Urban and Regional Planners	(7%)	\$61,108	LOW/HIGH	19	18	2	Master's degree
Law and Public Service		11-9131	Postmasters and Mail Superintendents	(8%)	\$70,939	LOW/HIGH	29	26	2	Some College, No Degree
Law and Public Service		23-1023	Judges, Magistrate Judges, and Magistrates	(12%)	\$42,300	LOW/HIGH	29	26	1	Doctoral or professional degree
Law and Public Service		23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	(17%)	\$55,251	LOW/HIGH	14	11	1	Doctoral or professional degree
Law and Public Service		33-9098	School Bus Monitors and Protective Service Workers, All Other	79%	\$23,794	HIGH/LOW	66	117	27	High school diploma or equivalent
Law and Public Service		33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	37%	\$18,516	HIGH/LOW	67	92	22	No formal educational credential
Law and Public Service		33-9032	Security Guards	36%	\$27,858	HIGH/LOW	289	394	57	High school diploma or equivalent
Law and Public Service		33-9091	Crossing Guards and Flaggers	33%	\$23,924	HIGH/LOW	18	24	5	High school diploma or equivalent

State Career Cluster Law and Public	Program of Study	SOC 33-9011	Occupational Title Animal Control Workers	Growth Rate	Median Annual Wage \$38,020	Growth Wage Category LOW/LOW	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement Recognized
Service		33 3011	7 minut Control Workers	778	430,020	2011/2011		30	J	Industry Credential
Law and Public Service			Public Safety Telecommunicators	5%	\$34,229	LOW/LOW	129	136	13	High school diploma or
Law and Public Service		43-5041	Meter Readers, Utilities	5%	\$31,891	LOW/LOW	56	59	5	High school diploma or
Law and Public Service		11-1031	Legislators	4%	\$27,403	LOW/LOW	64	67	5	Bachelor's degree
Law and Public Service		43-4031	Court, Municipal, and License Clerks	1%	\$35,364	LOW/LOW	184	185	19	Some College, No Degree
Law and Public Service		43-4061	Eligibility Interviewers, Government	(1%)	\$30,233	LOW/LOW	103	101	10	Some College, No Degree
Law and Public Service		43-4111	Interviewers, Except Eligibility and Loan	(2%)	\$28,603	LOW/LOW	217	212	27	Some College, No Degree
Manufacturing	Advanced Manufacturing and Machinery Mechanics	49-9041	Industrial Machinery Mechanics	22%	\$48,748	HIGH/HIGH	499	610	60	Recognized Industry
Manufacturing	Advanced Manufacturing and Machinery Mechanics	51-2028	Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and	10%	\$42,757	LOW/HIGH	450	496	56	High school diploma or equivalent
Manufacturing	Advanced Manufacturing and Machinery Mechanics	49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	10%	\$64,582	LOW/HIGH	68	75	6	Recognized Industry Credential
Manufacturing	Advanced Manufacturing and Machinery Mechanics	49-2092	Electric Motor, Power Tool, and Related Repairers	(3%)	\$42,173	LOW/HIGH	22	21	2	Recognized Industry Credential

State Career Cluster	Program of Study	SOC	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Manufacturing	Advanced Manufacturing and Machinery Mechanics, Manufacturing	51-9162	Computer Numerically Controlled Tool Programmers	10%	\$52,183	LOW/HIGH	43	47	6	Associate's degree
Manufacturing	Advanced Manufacturing and Machinery Mechanics, Manufacturing	17-3023	Electrical and Electronic Engineering Technologists and Technicians	5%	\$68,169	LOW/HIGH	111	117	12	Associate's degree
Manufacturing	Advanced Manufacturing and Machinery Mechanics, Manufacturing	51-9161	Computer Numerically Controlled Tool Operators	0%	\$37,714	LOW/LOW	112	112	13	Recognized Industry Credential
Manufacturing	Industrial Maintenance	11-3051	Industrial Production Managers	16%	\$101,345	HIGH/HIGH	148	172	13	Bachelor's degree
Manufacturing	Manufacturing Technology	17-3027	Mechanical Engineering Technologists and Technicians	20%	\$52,231	HIGH/HIGH	22	26	3	Associate's degree
Manufacturing	Manufacturing Technology	17-3026	Industrial Engineering Technologists and Technicians	13%	\$54,027	HIGH/HIGH	63	71	7	Associate's degree
Manufacturing	Welding	51-4121	Welders, Cutters, Solderers, and Brazers	4%	\$41,305	LOW/HIGH	749	778	90	Recognized Industry Credential
Manufacturing	Welding	51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	1%	\$33,929	LOW/LOW	15	16	2	Recognized Industry Credential
Manufacturing		51-4051	Metal-Refining Furnace Operators and Tenders	60%	\$41,928	HIGH/HIGH	15	23	3	High school diploma or equivalent

State Career Cluster	Program of Study	SOC	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Manufacturing	,	49-2021	Radio, Cellular, and Tower Equipment Installers and Repairers	53%	\$46,312	HIGH/HIGH	11	17	2	Associate's degree
Manufacturing		51-9011	Chemical Equipment Operators and Tenders	35%	\$44,248	HIGH/HIGH	75	102	12	High school diploma or equivalent
Manufacturing		51-7031	Model Makers, Wood	18%	\$87,202	HIGH/HIGH	11	13	1	High school diploma or equivalent
Manufacturing		27-1029	Designers, All Other	18%	\$41,931	HIGH/HIGH	27	32	3	Bachelor's degree
Manufacturing		51-4111	Tool and Die Makers	17%	\$45,657	HIGH/HIGH	14	17	2	Recognized Industry Credential
Manufacturing		49-9043	Maintenance Workers, Machinery	17%	\$45,723	HIGH/HIGH	71	83	8	High school diploma or
Manufacturing		51-9141	Semiconductor Processing Technicians	9%	\$40,881	LOW/HIGH	90	98	11	High school diploma or
Manufacturing		49-9062	Medical Equipment Repairers	9%	\$44,299	LOW/HIGH	72	78	9	Associate's degree
Manufacturing		17-3013	Mechanical Drafters	6%	\$52,315	LOW/HIGH	28	30	3	Associate's degree

State Career Cluster Manufacturing	Program of Study	SOC 43-2099	Occupational Title Communications Equipment	Growth Rate 5%	Median Annual Wage \$50,128	Growth Wage Category LOW/HIGH	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings 2	Competitive Education Requirement Recognized
			Operators, All Other							Industry Credential
Manufacturing		51-8099	Plant and System Operators, All Other	5%	\$48,183	LOW/HIGH	25	26	3	Recognized Industry Credential
Manufacturing			Millwrights	(10%)	\$62,058	LOW/HIGH	50	45	4	Recognized Industry Credential
Manufacturing		51-2021	Coil Winders, Tapers, and Finishers	(12%)	\$44,588	LOW/HIGH	46	41	5	High school diploma or equivalent
Manufacturing		17-3012	Electrical and Electronics Drafters	(14%)	\$60,765	LOW/HIGH	64	55	6	Associate's degree
Manufacturing		51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators,	(24%)	\$45,067	LOW/HIGH	96	74	9	High school diploma or equivalent
Manufacturing		47-2011	Boilermakers	(25%)	\$50,357	LOW/HIGH	45	34	4	High school diploma or equivalent
Manufacturing		51-2051	Fiberglass Laminators and Fabricators	78%	\$35,427	HIGH/LOW	22	39	5	High school diploma or equivalent
Manufacturing		51-4023	Rolling Machine Setters, Operators, and Tondors, Metal and Plastic	65%	\$28,607	HIGH/LOW	40	67	8	High school diploma or

State Career Cluster	Program of Study	soc	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Manufacturing		51-7099	Woodworkers, All Other	51%	\$27,609	HIGH/LOW	18	26	3	High school diploma or
Manufacturing		51-6041	Shoe and Leather Workers and Repairers	47%	\$24,635	HIGH/LOW	12	18	2	High school diploma or equivalent
Manufacturing		49-9091	Coin, Vending, and Amusement Machine	46%	\$31,267	HIGH/LOW	12	18	2	High school diploma or
Manufacturing		51-3023	Slaughterers and Meat Packers	45%	\$35,327	HIGH/LOW	97	140	19	No formal educational credential
Manufacturing		51-2031	Engine and Other Machine Assemblers	42%	\$35,497	HIGH/LOW	22	31	4	High school diploma or equivalent
Manufacturing		51-6031	Sewing Machine Operators	40%	\$24,222	HIGH/LOW	131	183	24	No formal educational credential
Manufacturing		51-3092	Food Batchmakers	36%	\$32,756	HIGH/LOW	87	118	16	High school diploma or equivalent
Manufacturing		51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	36%	\$34,097	HIGH/LOW	39	53	6	High school diploma or equivalent
Manufacturing		51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	36%	\$24,672	HIGH/LOW	29	39	5	High school diploma or equivalent

State Career Cluster	Program of Study	SOC	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Manufacturing	. rog.um er ettuay	51-9192	Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders	35%	\$28,565	HIGH/LOW	18	24	3	High school diploma or equivalent
Manufacturing		51-6042	Shoe Machine Operators and Tenders	32%	\$25,479	HIGH/LOW	26	34	5	High school diploma or equivalent
Manufacturing		43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	31%	\$31,785	HIGH/LOW	23	30	3	High school diploma or equivalent
Manufacturing		51-9111	Packaging and Filling Machine Operators and Tenders	29%	\$27,618	HIGH/LOW	196	254	31	High school diploma or equivalent
Manufacturing		51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and	23%	\$32,581	HIGH/LOW	18	22	3	High school diploma or equivalent
Manufacturing		51-4041	Machinists	22%	\$39,847	HIGH/LOW	233	284	32	Recognized Industry Credential
Manufacturing		51-9071	Jewelers and Precious Stone and Metal Workers	21%	\$27,629	HIGH/LOW	14	18	2	High school diploma or equivalent
Manufacturing		51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and	20%	\$32,339	HIGH/LOW	49	59	7	High school diploma or equivalent
Manufacturing		51-3093	Food Cooking Machine Operators and Tenders	18%	\$31,098	HIGH/LOW	54	64	11	High school diploma or equivalent

State Career Cluster	Program of Study	SOC	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Manufacturing		43-5061	Production, Planning, and Expediting Clerks	17%	\$36,694	HIGH/LOW	287	336	37	Some College, No Degree
Manufacturing		51-2098	Miscellaneous Assemblers and Fabricators	17%	\$26,129	HIGH/LOW	428	500	61	High school diploma or equivalent
Manufacturing		51-9196	Paper Goods Machine Setters, Operators, and Tenders	15%	\$35,636	HIGH/LOW	53	62	8	High school diploma or equivalent
Manufacturing		51-7011	Cabinetmakers and Bench Carpenters	14%	\$26,564	HIGH/LOW	31	36	4	High school diploma or equivalent
Manufacturing		51-3091	Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders	14%	\$26,849	HIGH/LOW	114	129	16	High school diploma or equivalent
Manufacturing		51-3099	Food Processing Workers, All Other	14%	\$25,480	HIGH/LOW	22	24	3	No formal educational credential
Manufacturing		51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	12%	\$31,910	HIGH/LOW	100	113	12	High school diploma or equivalent
Manufacturing		51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	10%	\$31,116	LOW/LOW	87	95	11	High school diploma or equivalent
Manufacturing		51-9199	Production Workers, All Other	10%	\$31,007	LOW/LOW	201	220	25	High school diploma or equivalent

State Career Cluster	Program of Study	SOC	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Manufacturing		51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and	10%	\$36,829	LOW/LOW	34	38	4	High school diploma or equivalent
Manufacturing		51-9124	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	9%	\$36,340	LOW/LOW	204	223	24	High school diploma or equivalent
Manufacturing		49-2011	Computer, Automated Teller, and Office Machine Repairers	9%	\$33,769	LOW/LOW	53	57	7	Recognized Industry Credential
Manufacturing		51-6093	Upholsterers	8%	\$30,023	LOW/LOW	19	20	2	High school diploma or equivalent
Manufacturing		51-9191	Adhesive Bonding Machine Operators and Tenders	6%	\$33,565	LOW/LOW	13	14	2	High school diploma or equivalent
Manufacturing		51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	5%	\$31,964	LOW/LOW	95	99	13	High school diploma or equivalent
Manufacturing		51-7021	Furniture Finishers	5%	\$36,195	LOW/LOW	21	22	3	No formal educational credential
Manufacturing		49-9099	Installation, Maintenance, and Repair Workers, All Other	5%	\$37,069	LOW/LOW	185	195	21	High school diploma or equivalent
Manufacturing		51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	1%	\$36,349	LOW/LOW	141	143	17	High school diploma or equivalent

State Career Cluster	Program of Study	SOC	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Manufacturing		51-4193	Plating Machine Setters, Operators, and Tenders, Metal and Plastic	1%	\$28,149	LOW/LOW	13	13	1	High school diploma or equivalent
Manufacturing		51-9198	HelpersProduction Workers	0%	\$28,766	LOW/LOW	267	268	40	No formal educational credential
Manufacturing		53-7063	Machine Feeders and Offbearers	0%	\$32,400	LOW/LOW	47	47	7	High school diploma or equivalent
Manufacturing		51-6091	Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and	(1%)	\$34,415	LOW/LOW	15	15	2	High school diploma or equivalent
Manufacturing		51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal	(3%)	\$32,931	LOW/LOW	116	113	13	High school diploma or equivalent
Manufacturing		51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	(3%)	\$34,266	LOW/LOW	31	30	4	High school diploma or equivalent
Manufacturing		51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	(5%)	\$39,273	LOW/LOW	67	63	8	High school diploma or equivalent
Manufacturing		51-4022	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	(5%)	\$23,281	LOW/LOW	12	11	1	High school diploma or equivalent
Manufacturing		49-9063	Musical Instrument Repairers and Tuners	(10%)	\$37,043	LOW/LOW	22	20	2	Recognized Industry Credential

State Career Cluster Manufacturing	Program of Study	SOC 51-9022	Occupational Title Grinding and Polishing Workers,	Growth Rate (17%)	Median Annual Wage \$36,020	Growth Wage Category LOW/LOW	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings 2	Competitive Education Requirement High school
			Hand	(=: /:/	, ,	2011, 2011				diploma or equivalent
Manufacturing		51-9151	Photographic Process Workers and Processing Machine Operators	(18%)	\$27,085	LOW/LOW	48	40	7	High school diploma or equivalent
Manufacturing		51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	(34%)	\$37,185	LOW/LOW	20	13	2	High school diploma or equivalent
Science, Technology, Engineering and Mathematics	Biomedical Science	19-4031	Chemical Technicians	12%	\$51,290	HIGH/HIGH	25	28	3	Associate's degree
Science, Technology, Engineering and Mathematics	Biomedical Science	29-2018	Clinical Laboratory Technologists and Technicians	8%	\$40,918	LOW/HIGH	283	307	23	Bachelor's degree
Science, Technology, Engineering and Mathematics	Biomedical Science	19-4021	Biological Technicians	7%	\$42,262	LOW/HIGH	57	61	8	Bachelor's degree
Science, Technology, Engineering and Mathematics	Biomedical Science	29-2098	Medical Dosimetrists, Medical Records Specialists, and Health Technologists and	14%	\$38,176	HIGH/LOW	305	348	28	Recognized Industry Credential
Science, Technology, Engineering and Mathematics	Cybersecurity	15-1212	Information Security Analysts	32%	\$120,185	HIGH/HIGH	71	94	8	Bachelor's degree
Science, Technology, Engineering and Mathematics	Cybersecurity	15-1211	Computer Systems Analysts	23%	\$64,316	HIGH/HIGH	202	249	21	Bachelor's degree

State Career Cluster	Program of Study	SOC	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Science, Technology, Engineering and Mathematics	Cybersecurity	15-1244	Network and Computer Systems Administrators	12%	\$62,388	HIGH/HIGH	246	275	20	Bachelor's degree
Science, Technology, Engineering and Mathematics	Engineering	17-2141	Mechanical Engineers	36%	\$81,950	HIGH/HIGH	109	148	12	Bachelor's degree
Science, Technology, Engineering and Mathematics	Engineering	17-2112	Industrial Engineers	33%	\$79,524	HIGH/HIGH	121	161	13	Bachelor's degree
Science, Technology, Engineering and Mathematics	Engineering	17-2131	Materials Engineers	28%	\$85,650	HIGH/HIGH	14	18	2	Bachelor's degree
Science, Technology, Engineering and Mathematics	Engineering	17-2071	Electrical Engineers	26%	\$93,368	HIGH/HIGH	107	136	11	Bachelor's degree
Science, Technology, Engineering and Mathematics	Engineering	17-2041	Chemical Engineers	24%	\$104,672	HIGH/HIGH	13	16	1	Bachelor's degree
Science, Technology,	Engineering	17-3026	Industrial Engineering Technologists and	13%	\$54,027	HIGH/HIGH	63	71	7	Associate's degree
Science, Technology,	Engineering	17-2081	Environmental Engineers	6%	\$94,228	LOW/HIGH	27	29	2	Master's degree
Science, Technology,	Engineering	41-9031	Sales Engineers	3%	\$111,665	LOW/HIGH	116	119	13	Bachelor's degree
Science, Technology,	Engineering	17-2011	Aerospace Engineers	(1%)	\$108,487	LOW/HIGH	32	32	2	Bachelor's degree

State Career Cluster	Program of Study	SOC	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Science, Technology, Engineering and Mathematics	Programming and Software Development	15-1256	Software Developers and Software Quality Assurance Analysts and Testers	63%	\$93,090	HIGH/HIGH	232	378	37	Bachelor's degree
Science, Technology, Engineering and Mathematics	Programming and Software Development	15-1251	Computer Programmers	2%	\$88,924	LOW/HIGH	65	67	5	Bachelor's degree
Science, Technology, Engineering and Mathematics	Renewable Energy	47-2231	Solar Photovoltaic Installers	47%	\$49,281	HIGH/HIGH	11	16	2	High school diploma or equivalent
Science, Technology, Engineering and Mathematics	Renewable Energy	49-9081	Wind Turbine Service Technicians	44%	\$46,958	нібн/нібн	119	172	21	Associate's degree
Science, Technology, Engineering and Mathematics	Renewable Energy	41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific	15%	\$80,906	HIGH/HIGH	111	127	14	Bachelor's degree
Science, Technology, Engineering and Mathematics	Renewable Energy	17-2199	Engineers, All Other	11%	\$100,161	HIGH/HIGH	69	76	6	Bachelor's degree
Science, Technology, Engineering and Mathematics	Renewable Energy	47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	1%	\$56,033	LOW/HIGH	853	866	89	Some College, No Degree
Science, Technology, Engineering and Mathematics		15-2098	Data Scientists and Mathematical Science Occupations, All Other	39%	\$78,117	HIGH/HIGH	30	42	4	Master's degree
Science, Technology, Engineering and Mathematics		17-2072	Electronics Engineers, Except Computer	35%	\$94,823	HIGH/HIGH	51	68	6	Bachelor's degree

State Career Cluster Science, Technology,	Program of Study	SOC 15-2041	Occupational Title Statisticians	Growth Rate 31%	Median Annual Wage \$74,362	Growth Wage Category HIGH/HIGH	Annual Average Employment 2020	Annual Average Employment 2030 21	Total Annual Openings 2	Competitive Education Requirement Master's degree
Engineering and Mathematics Science, Technology,		19-2042	Geoscientists, Except Hydrologists and	12%	\$107,133	HIGH/HIGH	45	51	6	Bachelor's degree
Engineering and Mathematics Science, Technology, Engineering and		19-2099	Physical Scientists, All Other	10%	\$74,417	LOW/HIGH	11	12	1	Master's degree
Mathematics Science, Technology, Engineering and Mathematics		11-9041	Architectural and Engineering Managers	10%	\$144,279	LOW/HIGH	81	89	7	Bachelor's degree
Science, Technology, Engineering and Mathematics		17-2171	Petroleum Engineers	9%	\$98,925	LOW/HIGH	150	165	14	Bachelor's degree
Science, Technology, Engineering and Mathematics		19-2031	Chemists	9%	\$84,831	LOW/HIGH	33	36	4	Bachelor's degree
Science, Technology, Engineering and Mathematics		19-2021	Atmospheric and Space Scientists	7%	\$104,920	LOW/HIGH	10	11	1	Bachelor's degree
Science, Technology, Engineering and Mathematics		17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	6%	\$95,106	LOW/HIGH	22	23	2	Bachelor's degree
Science, Technology, Engineering and Mathematics		17-3098	Calibration Technologists and Technicians and Engineering Technologists and	(0%)	\$47,232	LOW/HIGH	126	125	12	Associate's degree

State Career Cluster	Program of Study	SOC	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Science, Technology, Engineering and Mathematics		19-4045	Geological and Hydrologic Technicians	(12%)	\$41,350	LOW/HIGH	99	87	11	Associate's degree
Science, Technology, Engineering and Mathematics		17-1022	Surveyors	(14%)	\$51,197	LOW/HIGH	51	44	4	Bachelor's degree
Science, Technology, Engineering and Mathematics		19-4099	Life, Physical, and Social Science Technicians, All Other	9%	\$38,413	LOW/LOW	40	44	6	Bachelor's degree
Science, Technology, Engineering and Mathematics		17-3031	Surveying and Mapping Technicians	(8%)	\$36,455	LOW/LOW	94	87	11	Associate's degree
Transportation, Distribution, and Logistics	Automotive, Diesel and Heavy Equipment	49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	14%	\$42,873	HIGH/HIGH	443	507	50	Recognized Industry Credential
Transportation, Distribution, and Logistics	Automotive, Diesel and Heavy Equipment	49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	14%	\$60,898	HIGH/HIGH	635	722	69	Some College, No Degree
Transportation, Distribution, and Logistics	Automotive, Diesel and Heavy Equipment	49-3023	Automotive Service Technicians and Mechanics	9%	\$40,428	LOW/HIGH	983	1,075	112	Recognized Industry Credential
Transportation, Distribution, and Logistics	Automotive, Diesel and Heavy Equipment	49-3021	Automotive Body and Related Repairers	11%	\$38,909	HIGH/LOW	164	183	19	Recognized Industry Credential
Transportation, Distribution, and Logistics	Aviation Maintenance	49-2091	Avionics Technicians	8%	\$73,949	LOW/HIGH	52	56	4	Associate's degree

State Career Cluster	Program of Study	SOC	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Transportation, Distribution, and Logistics	Aviation Maintenance	49-3011	Aircraft Mechanics and Service Technicians	0%	\$57,880	LOW/HIGH	283	284	25	Associate's degree
Transportation, Distribution, and Logistics	Diesel and Heavy Equipment	49-3042	Mobile Heavy Equipment Mechanics, Except Engines	14%	\$43,948	HIGH/HIGH	178	203	21	Recognized Industry Credential
Transportation, Distribution, and Logistics	Distribution and Logistics	13-1081	Logisticians	27%	\$72,974	HIGH/HIGH	137	174	17	Bachelor's degree
Transportation, Distribution, and Logistics	Distribution and Logistics	11-9198	Personal Service Managers, All Other; Entertainment and Recreation Managers,	26%	\$60,163	HIGH/HIGH	846	1,069	92	Bachelor's degree
Transportation, Distribution, and Logistics	Distribution and Logistics	11-3061	Purchasing Managers	22%	\$114,306	HIGH/HIGH	42	52	5	Bachelor's degree
Transportation, Distribution, and Logistics	Distribution and Logistics	11-3071	Transportation, Storage, and Distribution Managers	13%	\$82,152	HIGH/HIGH	120	136	11	Bachelor's degree
Transportation, Distribution, and Logistics	Distribution and Logistics	13-1028	Buyers and Purchasing Agents	6%	\$48,746	LOW/HIGH	233	248	25	Bachelor's degree
Transportation, Distribution, and Logistics	Drone (Unmanned Flight)	53-2011	Airline Pilots, Copilots, and Flight Engineers	10%	\$169,151	LOW/HIGH	181	199	22	Bachelor's degree
Transportation, Distribution, and Logistics	Drone (Unmanned Flight)	53-2012	Commercial Pilots	7%	\$93,341	LOW/HIGH	77	82	10	Recognized Industry Credential

State Career Cluster	Program of Study	SOC	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Transportation, Distribution, and Logistics		43-5011	Cargo and Freight Agents	69%	\$41,750	HIGH/HIGH	59	100	12	High school diploma or equivalent
Transportation, Distribution, and Logistics		53-2031	Flight Attendants	38%	\$48,539	HIGH/HIGH	38	53	7	Some College, No Degree
Transportation, Distribution, and Logistics		53-1047	First-Line Supervisors of Transportation and Material Moving Workers, Except	12%	\$52,264	HIGH/HIGH	439	491	55	Some College, No Degree
Transportation, Distribution, and Logistics		53-5031	Ship Engineers	8%	\$84,737	LOW/HIGH	13	14	2	Associate's degree
Transportation, Distribution, and Logistics		53-5011	Sailors and Marine Oilers	6%	\$45,029	LOW/HIGH	33	35	4	High school diploma or equivalent
Transportation, Distribution, and Logistics		49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipment	6%	\$62,882	LOW/HIGH	26	28	2	Recognized Industry Credential
Transportation, Distribution, and		53-5021	Captains, Mates, and Pilots of Water	5%	\$87,555	LOW/HIGH	77	80	8	Associate's degree
Transportation, Distribution, and Logistics		53-3032	Heavy and Tractor-Trailer Truck Drivers	5%	\$43,895	LOW/HIGH	2,455	2,570	304	Recognized Industry Credential
Transportation, Distribution, and Logistics		53-4031	Railroad Conductors and Yardmasters	1%	\$64,813	LOW/HIGH	40	40	4	Recognized Industry Credential

State Career Cluster Transportation,	Program of Study	SOC 53-4011	Occupational Title Locomotive Engineers	Growth Rate 1%	Median Annual Wage \$65,186	Growth Wage Category LOW/HIGH	Annual Average Employment 2020	Annual Average Employment 2030 35	Total Annual Openings 3	Competitive Education Requirement Recognized
Distribution, and Logistics										Industry Credential
Transportation, Distribution, and Logistics		47-4061	Rail-Track Laying and Maintenance Equipment Operators	(0%)	\$53,503	LOW/HIGH	15	15	1	High school diploma or equivalent
Transportation, Distribution, and Logistics		53-4022	Railroad Brake, Signal, and Switch Operators and Locomotive Firers	(1%)	\$48,866	LOW/HIGH	15	15	1	High school diploma or equivalent
Transportation, Distribution, and Logistics		53-2021	Air Traffic Controllers	(3%)	\$163,037	LOW/HIGH	70	68	7	Associate's degree
Transportation, Distribution, and		53-3058	Passenger Vehicle Drivers, Except Bus Drivers Transit and Intercity	78%	\$23,546	HIGH/LOW	606	1,077	143	High school diploma or
Transportation, Distribution, and Logistics		53-3052	Bus Drivers, Transit and Intercity	72%	\$37,305	HIGH/LOW	111	191	25	High school diploma or equivalent
Transportation, Distribution, and Logistics		49-3092	Recreational Vehicle Service Technicians	35%	\$35,604	HIGH/LOW	11	15	2	High school diploma or equivalent
Transportation, Distribution, and Logistics		49-3051	Motorboat Mechanics and Service Technicians	31%	\$37,554	HIGH/LOW	20	26	3	Recognized Industry Credential
Transportation, Distribution, and Logistics		49-3052	Motorcycle Mechanics	26%	\$38,838	HIGH/LOW	12	15	2	High school diploma or equivalent

State Career Cluster	Program of Study	soc	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Transportation, Distribution, and Logistics		53-3099	Motor Vehicle Operators, All Other	25%	\$26,413	HIGH/LOW	36	45	7	High school diploma or equivalent
Transportation, Distribution, and Logistics		51-9197	Tire Builders	25%	\$36,077	HIGH/LOW	22	27	3	High school diploma or equivalent
Transportation, Distribution, and		53-7062	Laborers and Freight, Stock, and Material	23%	\$28,219	HIGH/LOW	1,182	1,450	202	High school diploma or
Transportation, Distribution, and		53-7061	Cleaners of Vehicles and Equipment	19%	\$24,109	HIGH/LOW	326	387	56	No formal educational
Transportation, Distribution, and Logistics		43-5032	Dispatchers, Except Police, Fire, and Ambulance	18%	\$36,508	HIGH/LOW	139	165	17	High school diploma or equivalent
Transportation, Distribution, and Logistics		53-7199	Material Moving Workers, All Other	17%	\$27,668	HIGH/LOW	20	23	3	High school diploma or equivalent
Transportation, Distribution, and Logistics		53-7051	Industrial Truck and Tractor Operators	10%	\$33,094	LOW/LOW	457	505	58	High school diploma or equivalent
Transportation, Distribution, and Logistics		49-3093	Tire Repairers and Changers	7%	\$28,929	LOW/LOW	193	207	25	High school diploma or equivalent
Transportation, Distribution, and Logistics		43-5071	Shipping, Receiving, and Inventory Clerks	7%	\$33,000	LOW/LOW	433	462	47	High school diploma or equivalent

State Career Cluster	Program of Study	SOC	Occupational Title	Growth Rate	Median Annual Wage	Growth Wage Category	Annual Average Employment 2020	Annual Average Employment 2030	Total Annual Openings	Competitive Education Requirement
Transportation, Distribution, and Logistics		49-3043	Rail Car Repairers	5%	\$35,580	LOW/LOW	49	52	5	High school diploma or equivalent
Transportation, Distribution, and Logistics		53-7064	Packers and Packagers, Hand	4%	\$20,949	LOW/LOW	565	590	84	No formal educational credential
Transportation, Distribution, and Logistics		53-3033	Light Truck Drivers	2%	\$39,509	LOW/LOW	931	947	109	High school diploma or equivalent
Transportation, Distribution, and		53-7121	Tank Car, Truck, and Ship Loaders	2%	\$35,917	LOW/LOW	13	13	2	High school diploma or
Transportation, Distribution, and Logistics		53-6098	Aircraft Service Attendants and Transportation Workers, All Other	(7%)	\$31,953	LOW/LOW	64	59	8	High school diploma or equivalent
Summary		00-0000	Total, All Occupations	11%	\$39,908	HIGH/HIGH	147,140	165,976	19,932	

Data Sources

Standard Occupational Classification (SOC) code, Occupational Title, Growth Rate, Median Annual Wage, Annual Average Employment Base Year and Projection Year, and Total Annual Openings data provided by Emsi Burning Glass, 2022. Source: Emsi Burning Glass – www.economicmodeling.com

Competitive Education Requirement (CER) data provided to TEA by R.C. Froeschle Consulting, as used in development of statewide programs of study list.

Notes

Under 'Growth Wage Category,' cells are highlighted green when value met or exceeded the region median value ('HIGH'); yellow when value did not meet the region median value ('LOW'); or grey when value was redacted.

Data are sorted by Career Cluster (alpha order), Program of Study (alpha order), and then Growth Wage Category (HIGH/HIGH, LOW/HIGH, HIGH/LOW, LOW/LOW) Occupations with redacted median wages are at the end of the report.

Wage data was redacted if the survey sample was insufficient.

							Annual	Annual		
					Median	Growth	Average	Average	Total	Competitive
State Career				Growth	Annual	Wage	Employment	Employment	Annual	Education
Cluster	Program of Study	SOC	Occupational Title	Rate	Wage	Category	2020	2030	Openings	Requirement

Some occupations may belong to more than one program of study or career cluster. Cells are blank if the occupation did not have a program of study identified within the career cluster.

Refer to the Texas Comprehensive Local Needs Assessment Guidebook and LMI Guide for more information about how to use these data. https://tea.texas.gov/academics/college-career-and-military-prep/career-and-technical-education/perkins-v

							Annual	Annual			
					Median	Growth	Average	Average	Total	Competitive	
State Care	eer			Growth	Annual	Wage	Employment	Employment	Annual	Education	
Cluster	Program of Study	SOC	Occupational Title	Rate	Wage	Category	2020	2030	Openings	Requirement	

							Annual	Annual		
					Median	Growth	Average	Average	Total	Competitive
State Career				Growth	Annual	Wage	Employment	Employment	Annual	Education
Cluster	Program of Study	SOC	Occupational Title	Rate	Wage	Category	2020	2030	Openings	Requirement

							Annual	Annual		
					Median	Growth	Average	Average	Total	Competitive
State Career				Growth	Annual	Wage	Employment	Employment	Annual	Education
Cluster	Program of Study	SOC	Occupational Title	Rate	Wage	Category	2020	2030	Openings	Requirement

							Annual	Annual		
					Median	Growth	Average	Average	Total	Competitive
State Career				Growth	Annual	Wage	Employment	Employment	Annual	Education
Cluster	Program of Study	SOC	Occupational Title	Rate	Wage	Category	2020	2030	Openings	Requirement

							Annual	Annual		
					. .					
					Median	Growth	Average	Average	Total	Competitive
State Career				Growth	Annual	Wage	Employment	Employment	Annual	Education
Cluster	Program of Study	SOC	Occupational Title	Rate	Wage	Category	2020	2030	Openings	Requirement

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					Median	Growth	Average	Average	Total	Competitive
State Career				Growth	Annual	Wage	Employment	Employment	Annual	Education
Cluster	Program of Study	SOC	Occupational Title	Rate	Wage	Category	2020	2030	Openings	Requirement

							Annual	Annual		
					Median	Growth	Average	Average	Total	Competitive
State Career				Growth	Annual	Wage	Employment	Employment	Annual	Education
Cluster	Program of Study	SOC	Occupational Title	Rate	Wage	Category	2020	2030	Openings	Requirement

							Annual	Annual		
					Median	Growth	Average	Average	Total	Competitive
State Caree	r			Growth	Annual	Wage	Employment	Employment	Annual	Education
Cluster	Program of Study	SOC	Occupational Title	Rate	Wage	Category	2020	2030	Openings	Requirement

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					Median	Growth	Average	Average	Total	Competitive
State Career				Growth	Annual	Wage	Employment	Employment	Annual	Education
Cluster	Program of Study	SOC	Occupational Title	Rate	Wage	Category	2020	2030	Openings	Requirement

							Annual	Annual		
					Median	Growth	Average	Average	Total	Competitive
State Career				Growth	Annual	Wage	Employment	Employment	Annual	Education
Cluster	Program of Study	SOC	Occupational Title	Rate	Wage	Category	2020	2030	Openings	Requirement
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