

NEW HAMPSHIRE CAREER PLANNING GUIDE 2018-2028

Occupation, SOC Code, and Description	NH Occupational Projections					Future Outlook	2019 Wage Entry Level Median	Usual Entry-Level Preparation			Apprentice	Military	NH License	Holland Interests			Career Cluster
	Employment		Avg. Annual Openings		Total			Education	Experience	Training				1 st	2 nd	3 rd	
	2018	2028	Exits	Transfers													
Accountants and Auditors (13-2011): Examine, analyze, and interpret accounting records to prepare or audit financial statements. Install or advise on systems of recording financial and budgetary data.	5,199	5,705	173	398	619	↑	\$24.59 \$32.27	Bachelor's degree	None	None		★	★	C	E	Finance	
Actors (27-2011): Play parts in stage, television, radio, video, motion picture productions, or other settings for entertainment, information, or instruction. Interpret serious or comic role by speech, gesture, and body movement.	106	107	4	9	13	↘	NP NP	Some college, no degree	None	Long-term on-the-job training	★	★		A	E	Arts, Audio/Video Technology & Communications	
Actuaries (15-2011): Analyze statistical data, such as mortality, accident, sickness, disability, and retirement rates, and construct probability tables to forecast risk and liability for payment of future benefits.	71	84	1	4	6	↗	NP NP	Bachelor's degree	None	Long-term on-the-job training				C	I	E	Science, Technology, Engineering & Mathematics
Adhesive Bonding Machine Operators and Tenders (51-9191): Operate or tend bonding machines that use adhesives to join items for further processing or to form a completed product.	40	42	1	4	5	↓	\$16.57 \$19.39	High school diploma or equivalent	None	Moderate-term on-the-job training				R	C	Manufacturing	
Administrative Law Judges, Adjudicators, and Hearing Officers (23-1021): Conduct hearings to recommend or make decisions on claims concerning government programs or related matters. Determine liability, sanctions, or penalties.	122	125	3	3	6	↘	\$24.20 \$33.20	Doctoral or professional degree	5 years or more	Short-term on-the-job training	★			E	I	S	Law, Public Safety, Corrections & Security
Administrative Services Managers (11-3011): Plan, direct, or coordinate administrative services of an organization, such as records management, mail distribution, facility maintenance, custodial operations, and other office support.	950	1,015	27	55	88	↑	\$33.49 \$47.92	Bachelor's degree	Less than 5 years	None	★	★		E	C	Business Management & Administration	
Adult Basic and Secondary Education and Literacy Teachers and Instructors (25-3011): Teach or instruct out-of-school youth and adults in remedial education, preparatory classes for the GED test, literacy, or English as a Second Language.	376	343	21	20	38	↗	\$17.64 \$27.66	Bachelor's degree	None	None			★	S	A	E	Education & Training
Advertising and Promotions Managers (11-2011): Plan, direct, or coordinate advertising policies and programs or produce materials such as posters, contests, or coupons to create interest in the purchase of a product or service.	46	46	1	3	4	↓	\$31.72 \$39.09	Bachelor's degree	Less than 5 years	None				E	A	C	Marketing
Advertising Sales Agents (41-3011): Sell or solicit advertising space, time, or media in publications, signage, TV, radio, or Internet establishments or public spaces.	553	488	16	54	64	↗	\$13.24 \$22.56	High school diploma or equivalent	None	Moderate-term on-the-job training				E	C	A	Marketing

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	2018	2028	Exits	Transfers	Total												
Aerospace Engineers (17-2011): Perform a variety of engineering work in designing, constructing, and testing aircraft, missiles, and spacecraft. May conduct basic and applied research to evaluate adaptability of materials and equipment to aircraft design and manufacture.	n	n	n	n	n	↘	NP NP	Bachelor's degree	None	None		★	★	I	R	Science, Technology, Engineering & Mathematics	
Agents and Business Managers of Artists, Performers, and Athletes (13-1011): Represent and promote artists, performers, and athletes to prospective employers. May handle contract negotiation and other business matters for clients.	n	n	n	n	n	↓	# #	Bachelor's degree	Less than 5 years	None			★	E	S	Arts, Audio/Video Technology & Communications	
Agricultural and Food Science Technicians (19-4011): Work under supervision of agricultural scientists in food, fiber, and animal research. Assist with animal breeding and nutrition, and conduct tests and experiments to improve crop yield and quality or increase disease resistance in plants and animals.	n	n	n	n	n	↓	NA NA	Associate's degree	None	Moderate-term on-the-job training				R	I	C	
Agricultural Engineers (17-2021): Apply knowledge of engineering technology and biological science to agricultural problems concerned with power and machinery, electrification, structures, soil and water conservation, and processing of agricultural products.	n	n	n	n	n	↓	NA NA	Bachelor's degree	None	None			★	I	R	E	
Agricultural Equipment Operators (45-2091): Drive and control farm equipment to till soil and to plant, cultivate, and harvest crops. May operate stationary equipment to perform post-harvest tasks, such as husking, shelling, and threshing.	83	95	4	11	16	↗	NP NP	No formal educational credential	None	Moderate-term on-the-job training	★			R		Agriculture, Food & Natural Resources	
Agricultural Inspectors (45-2011): Inspect agricultural commodities, processing equipment and facilities, and fish and logging operations to ensure compliance with regulations and laws governing health, quality, and safety.	n	n	n	n	n	↓	NP NP	Bachelor's degree	None	Moderate-term on-the-job training		★		R	C	I	
Agricultural Workers, All Other (45-2099): All agricultural workers not listed separately.	n	n	n	n	n	↓	NA NA	No formal educational credential	None	Short-term on-the-job training						Agriculture, Food & Natural Resources	
Air Traffic Controllers (53-2021): Control air traffic on and within vicinity of airport and movement of air traffic between altitude sectors and control centers according to established procedures and policies.	400	406	10	28	39	↗	\$49.38 \$70.23	Associate's degree	None	Long-term on-the-job training	★	★		E	C	Transportation, Distribution & Logistics	
Aircraft Cargo Handling Supervisors (53-1011): Direct ground crew in loading, unloading, securing, and staging aircraft cargo or baggage. Determine the quantity and orientation of cargo and compute aircraft center of gravity. May accompany aircraft as member of flight crew.	n	n	n	n	n	↓	NP NP	High school diploma or equivalent	Less than 5 years	None		★		E	R	Transportation, Distribution & Logistics	

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Aircraft Mechanics and Service Technicians (49-3011): Diagnose, adjust, repair, or overhaul aircraft engines and assemblies, such as hydraulic and pneumatic systems.	275	318	8	16	28	↑	\$20.35 \$27.04	Postsecondary non-degree award	None	None	★	★		R	C	I	Transportation, Distribution & Logistics
Airfield Operations Specialists (53-2022): Ensure the safe takeoff and landing of commercial and military aircraft. Coordinate between air-traffic control and maintenance; maintain flight records; use airfield landing and navigational aids; implement safety procedures; and apply weather knowledge.	n	n	n	n	n	↘	\$16.57 \$20.96	High school diploma or equivalent	None	Long-term on-the-job training	★	★		E	C	R	Transportation, Distribution & Logistics
Airline Pilots, Copilots, and Flight Engineers (53-2011): Pilot and navigate fixed-wing, multi-engine aircraft, usually on scheduled routes, for the transport of passengers and cargo. Requires FAA certificate and rating for specific aircraft type.	29	33	1	2	3	↘	\$94,472 \$116,494	Bachelor's degree	Less than 5 years	Moderate-term on-the-job training		★		R	C	I	Transportation, Distribution & Logistics
Ambulance Drivers and Attendants, Except Emergency Medical Technicians (53-3011): Drive ambulance or assist ambulance driver in transporting sick, injured, or convalescent persons. Assist in lifting patients.	n	n	n	n	n	↓	NP NP	High school diploma or equivalent	None	Moderate-term on-the-job training	★			R	S		Health Science
Amusement and Recreation Attendants (39-3091): Perform a variety of duties at amusement or recreation facility. May schedule use of recreation facilities, maintain and provide equipment, or operate amusement concessions and rides.	1,853	2,019	206	240	463	↑	\$8.35—\$9.87	No formal educational credential	None	Short-term on-the-job training				E	C	R	Hospitality & Tourism
Anesthesiologists (29-1061): Physicians who administer anesthetics prior to, during, or after surgery or other medical procedures.	162	170	3	2	6	↘	# #	Doctoral or professional degree	None	Internship or Residency		★	★	I	R	S	Health Science
Animal Breeders (45-2021): Select and breed animals according to their genealogy, characteristics, and offspring. May require knowledge of artificial insemination techniques and equipment use. May involve keeping records on heats, birth intervals, or pedigree.	n	n	n	n	n	↘	NA NA	High school diploma or equivalent	None	Short-term on-the-job training				R		I	Agriculture, Food & Natural Resources
Animal Control Workers (33-9011): Handle animals for the purpose of investigations of mistreatment, or control of abandoned, dangerous, or unattended animals.	59	63	3	3	6	↘	\$13.60 \$20.48	High school diploma or equivalent	None	Moderate-term on-the-job training				R	S	C	Law, Public Safety, Corrections & Security
Animal Trainers (39-2011): Train animals for riding, harness, security, performance, or obedience, or assisting persons with disabilities. Accustom animals to human voice and contact, and condition animals to respond.	157	180	10	15	27	↑	\$10.91 \$15.24	High school diploma or equivalent	None	Moderate-term on-the-job training	★	★		R			Agriculture, Food & Natural Resources

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Anthropologists and Archeologists (19-3091): Study the origin, development, and behavior of human beings. May engage in systematic recovery and examination of material evidence, such as tools or pottery remaining from past human culture.	27	32	1	2	3	↘	\$20.51 \$25.91	Master's degree	None	None			I	A	R	Science, Technology, Engineering & Mathematics	
Anthropology and Archeology Teachers, Postsecondary (25-1061): Teach courses in anthropology or archeology. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	n	n	n	n	n	↓	NP NP	Doctoral or professional degree	None	None	★		S	I		Education & Training	
Appraisers and Assessors of Real Estate (13-2021): Appraise real property and estimate its fair value. May assess taxes in accordance with prescribed schedules.	412	442	14	17	34	↗	\$21.39 \$30.71	Bachelor's degree	None	Long-term on-the-job training		★	C	E		Government & Public Administration	
Arbitrators, Mediators, and Conciliators (23-1022): Facilitate negotiation and conflict resolution through dialogue. Resolve conflicts outside of the court system by mutual consent of parties involved.	n	n	n	n	n	↓	NP NP	Bachelor's degree	Less than 5 years	Moderate-term on-the-job training		★	S	E		Law, Public Safety, Corrections & Security	
Architects, Except Landscape and Naval (17-1011): Plan and design structures, such as private residences, office buildings, theaters, factories, and other structural property.	322	387	8	19	33	↑	\$28.81 \$39.31	Bachelor's degree	None	Internship or Residency		★	★	A	I	Architecture & Construction	
Architectural and Civil Drafters (17-3011): Prepare detailed drawings of architectural and structural features of buildings or drawings and topographical relief maps used in civil engineering projects, such as highways and bridges.	749	856	27	56	94	↑	\$19.88 \$25.23	Associate's degree	None	None	★		R	C	A	Architecture & Construction	
Architectural and Engineering Managers (11-9041): Plan, direct, or coordinate activities in such fields as architecture and engineering or research and development in these fields.	1,443	1,531	26	81	116	↑	\$49.99 \$73.48	Bachelor's degree	5 years or more	None		★	E	R	I	Science, Technology, Engineering & Mathematics	
Architecture Teachers, Postsecondary (25-1031): Teach courses in architecture and architectural design, such as architectural environmental design, interior architecture/design, and landscape architecture. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	n	n	n	n	n	↘	NP NP	Doctoral or professional degree	None	None			S	A		Education & Training	
Archivists (25-4011): Appraise, edit, and direct safekeeping of permanent records and historically valuable documents. Participate in research activities based on archival materials.	n	n	n	n	n	↓	NP NP	Master's degree	None	None			C	I		Education & Training	

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Area, Ethnic, and Cultural Studies Teachers, Postsecondary (25-1062): Teach courses pertaining to the culture and development of an area, ethnic group, or other group, such as Latin American studies, women's studies, or urban affairs. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	81	87	3	4	8	↘	\$62,954 \$102,024	Doctoral or professional degree	None	None				S	I	A	Education & Training
Art Directors (27-1011): Formulate design concepts and presentation approaches for visual communications media, such as print, broadcasting, and advertising. Direct workers engaged in art work or layout design.	227	231	12	13	25	↗	\$31.26 \$40.05	Bachelor's degree	5 years or more	None			★	A	E		Arts, Audio/Video Technology & Communications
Art, Drama, and Music Teachers, Postsecondary (25-1121): Teach courses in drama, music, and the arts including fine and applied art, such as painting and sculpture, or design and crafts. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	328	350	12	16	30	↗	\$40,221 \$77,762	Master's degree	None	None				S	A		Education & Training
Artists and Related Workers, All Other (27-1019): All artists and related workers not listed separately.	30	30	2	2	4	↓	NP NP	No formal educational credential	None	Long-term on-the-job training			★				Arts, Audio/Video Technology & Communications
Assemblers and Fabricators, All Other, Including Team Assemblers (51-2098): All assemblers and fabricators not listed separately, including Team Assemblers (51-2092) and Timing Device Assemblers and Adjusters (51-2093).	5,913	4,973	223	411	540	↗	\$12.23 \$15.82	High school diploma or equivalent	None	Moderate-term on-the-job training	★			R	C	E	Manufacturing
Astronomers (19-2011): Observe, research, and interpret celestial and astronomical phenomena to increase basic knowledge and apply such information to practical problems.	n	n	n	n	n	↓	NP NP	Doctoral or professional degree	None	None			★	I	A	R	Science, Technology, Engineering & Mathematics
Athletes and Sports Competitors (27-2021): Compete in athletic events.	n	n	n	n	n	↓	NA NA	No formal educational credential	None	Long-term on-the-job training			★	R	E		Hospitality & Tourism
Athletic Trainers (29-9091): Evaluate and advise individuals to assist recovery from or avoid athletic-related injuries or illnesses, or maintain peak physical fitness. May provide first aid or emergency care.	234	283	6	9	20	↗	\$39,811 \$50,652	Bachelor's degree	None	None			★	S	R	I	Health Science
Atmospheric and Space Scientists (19-2021): Investigate atmospheric phenomena and interpret meteorological data gathered by surface and air stations, satellites, and radar to prepare reports and forecasts. Includes weather forecasters.	45	51	1	4	6	↗	\$18.42 \$28.12	Bachelor's degree	None	None	★	★		I	R		Science, Technology, Engineering & Mathematics

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Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary (25-1051): Teach courses in the physical sciences, except chemistry and physics. Includes both teachers primarily engaged in teaching, and those who do a combination of teaching and research.	93	97	4	4	8	↘	\$58,838 \$81,081	Doctoral or professional degree	None	None		★			S	I		Education & Training
Audio and Video Equipment Technicians (27-4011): Set up and/or operate audio and video equipment including microphones, speakers, screens, projectors, monitors, recording equipment, wires and cables, or sound and mixing boards.	135	150	5	10	17	↗	\$13.66 \$21.44	Postsecondary non-degree award	None	Short-term on-the-job training	★	★			R	I	C	Arts, Audio/Video Technology & Communications
Audiologists (29-1181): Assess and treat persons with hearing and related disorders. May fit hearing aids and provide auditory training. May perform research related to hearing problems.	68	82	1	2	4	↘	\$26.63 \$34.46	Doctoral or professional degree	None	None		★	★		I	S		Health Science
Audio-Visual and Multimedia Collections Specialists (25-9011): Prepare, plan, and operate multimedia teaching aids for use in education. May record, catalogue, and file materials.	33	34	1	2	3	↓	\$17.47 \$26.36	Bachelor's degree	Less than 5 years	None					C	R	S	Education & Training
Automotive and Watercraft Service Attendants (53-6031): Service automobiles, buses, trucks, boats, and other automotive or marine vehicles with fuel, lubricants, or accessories. May lubricate vehicle, change oil or coolant, or replace lights, wiper blades or fan belts. May repair or replace tires.	476	525	22	52	79	↑	\$11.01 \$12.81	No formal educational credential	None	Short-term on-the-job training					R		C	Transportation, Distribution & Logistics
Automotive Body and Related Repairers (49-3021): Repair and refinish automotive vehicle bodies and straighten vehicle frames.	606	660	20	40	65	↗	\$14.64 \$20.78	High school diploma or equivalent	None	Long-term on-the-job training	★	★			R			Transportation, Distribution & Logistics
Automotive Glass Installers and Repairers (49-3022): Replace or repair broken windshields and window glass in motor vehicles.	167	185	4	13	19	↗	\$14.73 \$18.40	High school diploma or equivalent	None	Moderate-term on-the-job training	★				R	C	E	Transportation, Distribution & Logistics
Automotive Service Technicians and Mechanics (49-3023): Diagnose, adjust, repair, or overhaul automotive vehicles.	4,092	4,178	112	290	411	↗	\$14.74 \$21.91	Postsecondary non-degree award	None	Short-term on-the-job training	★	★			R	I	C	Transportation, Distribution & Logistics
Avionics Technicians (49-2091): Install, inspect, test, adjust, or repair avionics equipment, such as radar, radio, navigation, and missile control systems in aircraft or space vehicles.	n	n	n	n	n	↘	NP NP	Associate's degree	None	None	★	★			R	I	C	Transportation, Distribution & Logistics

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Baggage Porters and Bellhops (39-6011): Handle baggage for travelers at transportation terminals or for guests at hotels or similar establishments.	50	54	3	5	8	↘	NP NP	High school diploma or equivalent	None	Short-term on-the-job training				R	C		Hospitality & Tourism	
Bailiffs (33-3011): Maintain order in courts of law.	40	40	2	2	4	↓	\$13.85 \$14.29	High school diploma or equivalent	None	Moderate-term on-the-job training			★	R	C	E	Law, Public Safety, Corrections & Security	
Bakers (51-3011): Mix and bake ingredients to produce breads, rolls, cookies, cakes, pies, pastries, or other baked goods. Pastry chefs in restaurants and hotels are included with <i>Chefs and Head Cooks (35-1011)</i> .	802	860	48	66	120	↑	\$11.15 \$13.65	No formal educational credential	None	Long-term on-the-job training	★	★		R	C		Hospitality & Tourism	
Barbers (39-5011): Provide barbering services, such as cutting, trimming, shampooing, and styling hair, trimming beards, or giving shaves.	597	642	32	37	73	↗	NP NP	Postsecondary non-degree award	None	None	★	★	★	R	E	C	Human Services	
Bartenders (35-3011): Mix and serve drinks to patrons, directly or through waitstaff.	4,300	4,601	208	575	813	↑	\$8.41 \$9.38	No formal educational credential	None	Short-term on-the-job training	★			E	C	R	Hospitality & Tourism	
Bicycle Repairers (49-3091): Repair and service bicycles.	157	171	5	13	19	↘	\$11.48 \$14.34	High school diploma or equivalent	None	Moderate-term on-the-job training				R	C	I	Transportation, Distribution & Logistics	
Bill and Account Collectors (43-3011): Locate and notify customers of delinquent accounts by mail, telephone, or personal visit. Take payments and post amount to customer's account; prepare statements; initiate repossession proceedings or service disconnection and keep records.	1,191	1,128	45	93	132	↗	\$13.16 \$16.86	High school diploma or equivalent	None	Moderate-term on-the-job training				C	E		Finance	
Billing and Posting Clerks (43-3021): Compile, compute, and record billing, accounting, statistical, and other numerical data for billing purposes. Prepare billing invoices for services rendered or for delivery or shipment of goods.	2,213	2,459	96	158	279	↑	\$16.03 \$19.21	High school diploma or equivalent	None	Moderate-term on-the-job training				C	E	S	Finance	
Biochemists and Biophysicists (19-1021): Study the chemical composition and physical principles of living cells and organisms, their electrical and mechanical energy, and related phenomena. Conduct research on metabolism, reproduction, growth, and heredity, or the effects of foods, drugs, or serums.	101	121	2	8	12	↗	\$34.02 \$47.10	Doctoral or professional degree	None	None		★		I	A	R	Science, Technology, Engineering & Mathematics	

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Biological Science Teachers, Postsecondary (25-1042): Teach courses in biological sciences. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	281	312	11	14	28	↑	\$54,891 \$100,048	Doctoral or professional degree	None	None				S	I		Education & Training	
Biological Scientists, All Other (19-1029): All biological scientists not listed separately. Includes Bioinformatics Scientists, Molecular and Cellular Biologists, and Geneticists.	85	92	1	7	9	↘	\$27.58 \$41.58	Bachelor's degree	None	None		★		I	R	A	Science, Technology, Engineering & Mathematics	
Biological Technicians (19-4021): Assist biological and medical scientists in laboratories. Set up, operate, and maintain lab instruments and equipment, monitor experiments, make observations, and calculate and record results. May analyze organic substances, such as blood, food, and drugs.	497	561	8	48	62	↑	\$16.78 \$24.40	Bachelor's degree	None	None	★	★		R	I	C	Health Science	
Biomedical Engineers (17-2031): Apply knowledge of engineering, biology, and biomechanical principles to the design, development, and evaluation of biological and health systems and products, such as artificial organs, prostheses, instrumentation, and medical information systems.	36	38	1	2	3	↓	NP NP	Bachelor's degree	None	None		★	★	I	R		Health Science	
Boilermakers (47-2011): Construct, assemble, maintain, and repair stationary steam boilers and boiler house auxiliaries. Assemble boiler frame tanks or vats, following blueprints. Assist in testing assembled vessels. Inspect and repair fittings, such as safety valves, regulators, or water columns.	n	n	n	n	n	↘	NP NP	High school diploma or equivalent	None	Apprenticeship	★	★		R	C		Architecture & Construction	
Bookkeeping, Accounting, and Auditing Clerks (43-3031): Compute, classify, and record numerical data to keep financial records complete. Perform routine calculating, posting, and verifying to obtain primary financial data to maintain accounting records.	8,636	8,437	519	475	974	↗	\$14.19 \$20.07	Some college, no degree	None	Moderate-term on-the-job training	★	★		C	E		Finance	
Brickmasons and Blockmasons (47-2021): Lay and bind building materials, such as brick, structural tile, concrete block, cinder block, glass block, and terra-cotta block with mortar and other substances to construct or repair walls, partitions, arches, sewers, and other structures.	435	475	13	32	49	↗	\$16.42 \$22.71	High school diploma or equivalent	None	Apprenticeship	★	★		R	C	I	Architecture & Construction	
Bridge and Lock Tenders (53-6011): Operate and tend bridges, canal locks, and lighthouses to permit marine passage on inland waterways, near shores, and at danger points in waterway passages. May supervise such operations. Includes drawbridge operators, lock operators, and slip bridge operators.	30	30	1	2	3	↓	NP NP	High school diploma or equivalent	None	Short-term on-the-job training				R	C	E	Transportation, Distribution & Logistics	
Broadcast News Analysts (27-3021): Analyze, interpret, and broadcast news received from various sources.	n	n	n	n	n	↓	\$13.09 \$18.95	Bachelor's degree	None	None		★		A	S	E	Arts, Audio/Video Technology & Communications	

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	2018	2028	Exits	Transfers														
Broadcast Technicians (27-4012): Set up, operate, and maintain electronic equipment used to transmit radio and television programs. Control audio equipment to regulate volume level and quality of sound during broadcasts. Operate transmitter to broadcast radio or television programs.	98	98	3	7	10	↘	NP NP	Associate's degree	None	Short-term on-the-job training	★	★		R	C	I	Arts, Audio/Video Technology & Communications	
Brokerage Clerks (43-4011): Perform duties related to the purchase, sale or holding of securities. Write orders for stock purchases or sales, compute taxes, verify transactions, accept and deliver securities, track stock price fluctuations, distribute dividends, and keep records of transactions.	478	517	24	28	56	↗	\$21.86 \$25.59	High school diploma or equivalent	None	Moderate-term on-the-job training				C	E		Finance	
Budget Analysts (13-2031): Examine budget estimates for completeness, accuracy, and conformance with procedures and regulations. Analyze budgeting and accounting reports.	73	80	2	4	7	↘	\$29.34 \$36.21	Bachelor's degree	None	None		★		C	E	I	Finance	
Building Cleaning Workers, All Other (37-2019): All building cleaning workers not listed separately.	n	n	n	n	n	↗	\$14.27 \$16.66	No formal educational credential	None	Short-term on-the-job training	★						Architecture & Construction	
Bus and Truck Mechanics and Diesel Engine Specialists (49-3031): Diagnose, adjust, repair, or overhaul buses and trucks, or maintain and repair any type of diesel engines. Includes mechanics working primarily with automobile or marine diesel engines.	1,205	1,297	35	81	125	↑	\$19.10 \$25.48	High school diploma or equivalent	None	Long-term on-the-job training	★	★		R	C		Transportation, Distribution & Logistics	
Bus Drivers, School or Special Client (53-3022): Transport students or special clients, such as the elderly or persons with disabilities. Ensure adherence to safety rules. May assist passengers in boarding or exiting.	2,488	2,666	200	125	343	↑	NA NA	High school diploma or equivalent	None	Short-term on-the-job training				R	C		Transportation, Distribution & Logistics	
Bus Drivers, Transit and Intercity (53-3021): Drive bus or motor coach, including regular route operations, charters, and private carriage. May assist passengers with baggage. May collect fares or tickets.	376	404	30	19	52	↗	\$15.77 \$24.08	High school diploma or equivalent	None	Moderate-term on-the-job training	★			R	S		Transportation, Distribution & Logistics	
Business Operations Specialists, All Other (13-1199): All business operations specialists not listed separately. Includes Energy Auditors, Security Management Specialists, Customs Brokers, Business Continuity Planners, Sustainability Specialists, and Online Merchants.	2,332	2,455	65	165	242	↗	\$23.75 \$33.92	Bachelor's degree	None	None	★	★					Business Management & Administration	
Business Teachers, Postsecondary (25-1011): Teach courses in business administration and management, such as accounting, finance, human resources, labor relations, marketing, and operations research. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	568	657	22	28	59	↑	\$48,425 \$86,845	Doctoral or professional degree	None	None				S	E	I	Education & Training	

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	Employment		Avg. Annual Openings					Education	Experience	Training				1 st	2 nd	3 rd	
	2018	2028	Exits	Transfers	Total												
Butchers and Meat Cutters (51-3021): Cut, trim, or prepare consumer-sized portions of meat for use or sale in retail establishments.	497	521	21	42	65	↗	\$15.52 \$19.78	No formal educational credential	None	Long-term on-the-job training	★			R	C	E	Agriculture, Food & Natural Resources
Buyers and Purchasing Agents (13-1020): Buy or purchase products for further processing, resale to wholesale or retail consumers, or for necessary operation of an establishment. May purchase farm products; machinery, tools, parts, supplies, or services; merchandise or commodities; or raw or semi-finished materials for manufacturing.	2,441	2,298	75	172	233	↗	\$21.45 \$30.64	Bachelor's degree	None	Moderate-term on-the-job training	★	★		E	C	R	Marketing
Cabinetmakers and Bench Carpenters (51-7011): Cut, shape, and assemble wooden articles or set up and operate a variety of woodworking machines, such as power saws, jointers, and mortisers to surface, cut, or shape lumber or to fabricate parts for wood products.	337	316	14	20	32	↗	\$16.01 \$21.48	High school diploma or equivalent	None	Moderate-term on-the-job training	★			R	C		Manufacturing
Camera and Photographic Equipment Repairers (49-9061): Repair and adjust cameras and photographic equipment, including commercial video and motion picture camera equipment.	n	n	n	n	n	↓	NP NP	High school diploma or equivalent	None	Long-term on-the-job training	★	★		R	C	I	Manufacturing
Camera Operators, Television, Video, and Motion Picture (27-4031): Operate television, video, or motion picture camera to record images or scenes for various purposes, such as TV broadcasts, advertising, video production, or motion pictures.	174	182	5	13	19	↘	\$10.78 \$14.71	Bachelor's degree	None	None	★	★		R	A		Arts, Audio/Video Technology & Communications
Captains, Mates, and Pilots of Water Vessels (53-5021): Command or supervise operations of ships and water vessels, such as tugboats and ferryboats. Required to hold license issued by U.S. Coast Guard. Excludes Motorboat Operators (53-5022).	82	92	2	6	9	↗	NP NP	Postsecondary non-degree award	Less than 5 years	None	★	★		E	R	C	Transportation, Distribution & Logistics
Cardiovascular Technologists and Technicians (29-2031): Conduct tests on pulmonary or cardiovascular systems of patients for diagnostic purposes. May conduct or assist in electrocardiograms, cardiac catheterizations, pulmonary functions, lung capacity, and similar tests.	243	257	6	8	15	↘	\$17.99 \$32.67	Associate's degree	None	None		★	★	R	I	S	Health Science
Career/Technical Education Teachers, Middle School (25-2023): Teach occupational, career and technical, or vocational subjects in public or private schools at the middle, intermediate, or junior high level, which falls between elementary and senior high school.	n	n	n	n	n	↘	\$47,915 \$60,768	Bachelor's degree	Less than 5 years	None			★	S	A	C	Education & Training
Career/Technical Education Teachers, Secondary School (25-2032): Teach occupational, career and technical, or vocational subjects at the secondary school level in public or private schools.	328	326	9	14	23	↓	\$46,574 \$62,380	Bachelor's degree	Less than 5 years	None	★	★	S				Education & Training

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	Employment		Avg. Annual Openings		Total				Experience	Training	1 st				2 nd	3 rd		
	2018	2028	Exits	Transfers														
Cargo and Freight Agents (43-5011): Expedite and route movement of incoming and outgoing cargo and freight shipments in airline, train, and trucking terminals, and shipping docks. Take orders and arrange pickup of freight and cargo. Prepare and examine bills of lading.	273	312	10	17	31	↑	\$16.75 \$24.66	High school diploma or equivalent	None	Short-term on-the-job training	★	★		C	E	R	Transportation, Distribution & Logistics	
Carpenters (47-2031): Construct, erect, install, or repair structures and fixtures made of wood, such as concrete forms, building frameworks - including partitions, joists, studding, and rafters - and wood stairways, window and door frames, and hardwood floors. May install cabinets, siding, or drywall.	4,732	5,039	153	353	537	↑	\$17.41 \$23.31	High school diploma or equivalent	None	Apprenticeship	★	★		R	C	I	Architecture & Construction	
Carpet Installers (47-2041): Lay and install carpet from rolls or blocks on floors. Install padding and trim flooring materials.	74	73	2	5	7	↓	\$14.31 \$18.99	No formal educational credential	None	Short-term on-the-job training	★			R	E		Architecture & Construction	
Cartographers and Photogrammetrists (17-1021): Collect, analyze, and interpret geographic information from geodetic surveys, aerial photographs, and satellite data. Research, study, and prepare maps and spatial data in digital or graphic form. May work with GIS software.	127	157	4	7	14	↗	\$20.22 \$26.13	Bachelor's degree	None	None	★	★		R	I	C	Science, Technology, Engineering & Mathematics	
Cashiers (41-2011): Receive and disburse money in establishments other than financial institutions. May use electronic scanners, cash registers, or related equipment. May process credit or debit card transactions and validate checks.	22,543	21,688	1,974	2,198	4,086	↗	\$9.46 \$11.02	No formal educational credential	None	Short-term on-the-job training				C	E		Marketing	
Cement Masons and Concrete Finishers (47-2051): Smooth and finish surfaces of poured concrete, such as floors, walks, sidewalks, roads, or curbs using a variety of hand and power tools. Align forms for sidewalks, curbs, or gutters; patch voids; and use saws to cut expansion joints.	159	179	5	13	20	↗	\$17.14 \$23.57	No formal educational credential	None	Moderate-term on-the-job training	★	★		R	E		Architecture & Construction	
Chefs and Head Cooks (35-1011): Direct and may participate in the preparation, seasoning, and cooking of salads, soups, fish, meats, vegetables, desserts, or other foods. May plan and price menu items, order supplies, and keep records and accounts.	775	855	25	82	115	↑	\$20.43 \$25.24	High school diploma or equivalent	5 years or more	None	★	★		E	R	A	Hospitality & Tourism	
Chemical Engineers (17-2041): Design chemical plant equipment and devise manufacturing processes for chemicals and products, such as gasoline, synthetic rubber, plastics, detergents, cement, paper, and pulp, applying principles and technology of chemistry, physics, and engineering.	85	101	2	4	8	↗	\$29.57 \$42.39	Bachelor's degree	None	None		★	★	I	R		Science, Technology, Engineering & Mathematics	
Chemical Equipment Operators and Tenders (51-9011): Operate or tend equipment to control chemical changes or reactions in the processing of industrial or consumer products. Equipment used includes devulcanizers, steam-jacketed kettles, and reactor vessels.	125	138	3	12	16	↗	\$16.04 \$20.59	High school diploma or equivalent	None	Moderate-term on-the-job training	★	★		R	C		Manufacturing	

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	Employment		Avg. Annual Openings					Education	Experience	Training				1 st	2 nd	3 rd		
	2018	2028	Exits	Transfers	Total													
Chemical Technicians (19-4031): Conduct chemical and physical laboratory tests to assist scientists in making qualitative and quantitative analyses of solids, liquids, and gaseous materials for research and development, quality control, maintenance of environmental standards, and other work.	197	216	4	17	23	↘	\$15.99 \$21.94	Associate's degree	None	Moderate-term on-the-job training	★	★		I	R	C	Manufacturing	
Chemistry Teachers, Postsecondary (25-1052): Teach courses pertaining to chemical and physical properties and compositional changes of substances. May instruct in methods of qualitative and quantitative chemical analysis. Includes teachers primarily engaged in teaching, and those who combine teaching and research.	88	93	3	4	7	↘	\$53,910 \$86,377	Doctoral or professional degree	None	None		★		S	I	R	Education & Training	
Chemists (19-2031): Conduct qualitative and quantitative chemical analyses or experiments in laboratories for quality or process control or to develop new products or knowledge.	212	246	4	17	24	↑	\$22.70 \$33.45	Bachelor's degree	None	None		★		I	R	C	Science, Technology, Engineering & Mathematics	
Chief Executives (11-1011): Determine and formulate policies and provide overall direction of companies or private and public organizations within guidelines set by a board of directors or similar body. Plan, direct, or coordinate operational activities at the highest level of management.	824	788	22	36	54	↗	\$42.01 \$66.76	Bachelor's degree	5 years or more	None		★		E	C		Business Management & Administration	
Child, Family, and School Social Workers (21-1021): Provide social services and assistance to improve the social and psychological functioning of children and their families. May arrange adoptions or find foster homes for children. In schools, deal with issues like teen pregnancy or misbehavior.	693	768	22	50	80	↑	\$19.47 \$24.46	Bachelor's degree	None	None			★	S	E		Human Services	
Childcare Workers (39-9011): Attend to children at schools, businesses, private households, and childcare institutions. Perform a variety of tasks, such as dressing, feeding, bathing, and overseeing play.	3,688	3,869	279	284	581	↗	\$9.18 \$11.69	High school diploma or equivalent	None	Short-term on-the-job training	★		★	S	A		Human Services	
Chiropractors (29-1011): Assess, treat, and care for patients by manipulation of spine and musculoskeletal system. May provide spinal adjustment or address sacral or pelvic misalignment.	146	156	3	1	5	↘	\$23.87 \$32.65	Doctoral or professional degree	None	None			★	★	S	I	R	Health Science
Choreographers (27-2032): Create new dance routines. Rehearse performance of routines. May direct and stage presentations.	n	n	n	n	n	↘	\$25.80 \$28.81	High school diploma or equivalent	5 years or more	Long-term on-the-job training				A	S	E	Arts, Audio/Video Technology & Communications	
Civil Engineering Technicians (17-3022): Apply theory and principles of civil engineering in planning, designing, and overseeing construction and maintenance of structures and facilities, under the direction of engineering staff or physical scientists.	n	n	n	n	n	↗	\$20.33 \$27.12	Associate's degree	None	None		★		R	C	I	Architecture & Construction	

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	Employment		Avg. Annual Openings		Total			Education	Experience	Training				1 st	2 nd	3 rd		
	2018	2028	Exits	Transfers														
Civil Engineers (17-2051): Perform engineering duties to plan, design, and oversee construction and maintenance of building structures and facilities such as roads, railroads, airports, bridges, harbors, channels, dams, irrigation projects, pipelines, power plants, or water and sewage systems.	1,531	1,840	34	97	162	↑	\$29.19 \$39.85	Bachelor's degree	None	None		★	★	R	I	C	Science, Technology, Engineering & Mathematics	
Claims Adjusters, Examiners, and Investigators (13-1031): Review settled claims to determine that payments and settlements are made in accordance with company practices and procedures. Confer with legal counsel on claims requiring litigation. May also settle insurance claims.	1,088	1,045	26	64	86	↗	\$21.78 \$32.70	High school diploma or equivalent	None	Long-term on-the-job training	★		★	E	C		Finance	
Cleaners of Vehicles and Equipment (53-7061): Wash or otherwise clean vehicles, machinery, and other equipment. Use such materials as water, cleaning agents, brushes, cloths, and hoses.	1,451	1,585	76	145	234	↑	\$10.85 \$14.22	No formal educational credential	None	Short-term on-the-job training	★			R	C		Transportation, Distribution & Logistics	
Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders (51-9192): Operate or tend machines to wash or clean products, such as barrels or kegs, glass items, tin plate, food, pulp, coal, plastic, or rubber to remove impurities.	130	129	8	12	20	↓	\$12.51 \$15.92	High school diploma or equivalent	None	Moderate-term on-the-job training				R	C		Manufacturing	
Clergy (21-2011): Conduct religious worship and perform other spiritual functions associated with beliefs and practices of religious faith or denomination. Provide spiritual and moral guidance and assistance to members.	739	824	34	50	92	↑	\$22.04 \$29.27	Bachelor's degree	None	Moderate-term on-the-job training			★	★	S	E	A	Human Services
Clinical, Counseling, and School Psychologists (19-3031): Diagnose and treat mental disorders, learning disabilities, and cognitive, behavioral, and emotional problems using individual, child, family, and group therapies. May design and implement behavior modification programs.	577	665	14	30	53	↑	\$26.18 \$36.37	Doctoral or professional degree	None	Internship or Residency			★	★	I	S	A	Human Services
Coaches and Scouts (27-2022): Instruct or coach groups or individuals in the fundamentals of sports. Demonstrate techniques and methods of participation. May evaluate athletes' strengths and weaknesses as possible recruits or to improve athletes' technique to prepare them for competition.	1,269	1,458	77	122	218	↑	\$18,821 \$29,082	Bachelor's degree	None	None				S	R	E	Education & Training	
Coating, Painting, and Spraying Machine Setters, Operators, and Tenders (51-9121): Set up, operate, or tend machines to coat or paint a variety of products, such as glass, cloth, ceramics, metal, plastic, paper, or wood, with lacquer, silver, copper, rubber, varnish, glaze, enamel, or rust-proof material.	559	562	17	44	61	↗	\$15.27 \$18.87	High school diploma or equivalent	None	Moderate-term on-the-job training	★			R	C	I	Manufacturing	
Coil Winders, Tapers, and Finishers (51-2021): Wind wire coils used in electrical components such as resistors and transformers, and in electrical equipment and instruments such as field cores, bobbins, armature cores, electrical motors, generators, and control equipment.	66	52	2	4	5	↓	\$12.30 \$16.32	High school diploma or equivalent	None	Moderate-term on-the-job training				R	C	I	Manufacturing	

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	2018	2028	Exits	Transfers													
Coin, Vending, and Amusement Machine Servicers and Repairers (49-9091): Install, service, adjust or repair coin, vending, or amusement machines including video games, juke boxes, pinball machines, or slot machines.	86	86	4	7	11	↘	\$12.93 \$18.63	High school diploma or equivalent	None	Short-term on-the-job training				R	C		Manufacturing
Combined Food Preparation and Serving Workers, Including Fast Food (35-3021): Perform duties which combine preparing and serving food and nonalcoholic beverages.	15,013	17,067	1,279	1,577	3,061	↑	\$8.66 \$10.44	No formal educational credential	None	Short-term on-the-job training		★		C	R	E	Hospitality & Tourism
Commercial and Industrial Designers (27-1021): Develop and design manufactured products, such as cars, home appliances, and children's toys. Combine artistic talent with research on product use, marketing, and materials to create the most functional and appealing product design.	129	137	4	9	14	↘	\$19.49 \$27.80	Bachelor's degree	None	None	★			A	E	R	Arts, Audio/Video Technology & Communications
Commercial Divers (49-9092): Using scuba gear, work below surface of water to inspect, repair, remove, or install equipment and structures. May use tools such as drills, torches, or welding equipment. May conduct tests or experiments, rig explosives, or photograph structures or marine life.	92	95	4	6	10	↘	\$21.30 \$27.80	Postsecondary non-degree award	None	Moderate-term on-the-job training		★		R			Architecture & Construction
Commercial Pilots (53-2012): Pilot and navigate the flight of fixed-wing aircraft on nonscheduled air carrier routes, or helicopters. Requires Commercial Pilot certificate. Includes charter pilots with similar certification, and air ambulance and air tour pilots. Excludes airline pilots.	273	308	8	21	33	↑	\$34,186 \$65,150	High school diploma or equivalent	None	Moderate-term on-the-job training	★	★		R	I	E	Transportation, Distribution & Logistics
Communications Teachers, Postsecondary (25-1122): Teach courses in communications, such as organizational communications, public relations, radio/television broadcasting, and journalism. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	71	76	3	3	6	↘	\$46,356 \$76,417	Doctoral or professional degree	None	None				S	A		Education & Training
Community and Social Service Specialists, All Other (21-1099): All community and social service specialists not listed separately.	381	430	15	31	51	↑	\$13.90 \$19.98	Bachelor's degree	None	None							Human Services
Community Health Workers (21-1094): Assist individuals and communities to adopt healthy behaviors. Conduct outreach for medical personnel or health organizations to implement programs in the community that promote, maintain, and improve individual and community health.	140	164	6	12	20	↗	\$15.19 \$18.08	High school diploma or equivalent	None	Short-term on-the-job training	★			S	I	E	Human Services
Compensation and Benefits Managers (11-3111): Plan, direct, or coordinate compensation and benefits activities of an organization.	78	80	2	5	7	↘	\$41.43 \$56.18	Bachelor's degree	5 years or more	None		★		E	C	S	Business Management & Administration

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	2018	2028	Exits	Transfers	Total												
Compensation, Benefits, and Job Analysis Specialists (13-1141): Conduct programs of compensation and benefits and job analysis for employer. May specialize in specific areas, such as position classification and pension programs.	326	358	11	21	35	↗	\$23.47 \$32.17	Bachelor's degree	Less than 5 years	None				C	E		Business Management & Administration
Compliance Officers (13-1041): Examine, evaluate, and investigate eligibility for or conformity with laws and regulations governing contract compliance of licenses and permits, and perform other compliance and enforcement inspection and analysis activities not classified elsewhere.	1,428	1,545	41	89	142	↑	\$23.43 \$35.78	Bachelor's degree	None	Moderate-term on-the-job training	★	★		C	E		Government & Public Administration
Computer and Information Research Scientists (15-1111): Conduct research into fundamental computer and information science as theorists, designers, or inventors. Develop solutions to problems in the field of computer hardware and software.	31	38	0	2	3	↘	\$46.50 \$59.79	Master's degree	None	None		★		I	R	C	Science, Technology, Engineering & Mathematics
Computer and Information Systems Managers (11-3021): Plan, direct, or coordinate activities in such fields as electronic data processing, information systems, systems analysis, and computer programming.	2,495	2,804	45	161	237	↑	\$47.03 \$67.60	Bachelor's degree	5 years or more	None	★	★		E	C	I	Business Management & Administration
Computer Hardware Engineers (17-2061): Research, design, develop, or test computer or computer-related equipment for commercial, industrial, military, or scientific use. May supervise the manufacturing and installation of computer or computer-related equipment and components.	235	262	5	13	21	↗	\$38.82 \$59.29	Bachelor's degree	None	None		★	★	I	R	C	Science, Technology, Engineering & Mathematics
Computer Network Architects (15-1143): Design and implement computer and information networks, such as local area networks (LAN), wide area networks (WAN), intranets, extranets, and other data communications networks. Perform network modeling, analysis, and planning.	424	469	6	25	35	↑	\$41.43 \$62.00	Bachelor's degree	5 years or more	None	★	★		I	C	E	Information Technology
Computer Network Support Specialists (15-1152): Analyze, test, troubleshoot, and evaluate existing network systems, such as local area network (LAN), wide area network (WAN), and Internet systems. Perform network maintenance to ensure networks operate correctly with minimal interruption.	497	502	9	32	41	↗	\$22.48 \$32.00	Associate's degree	None	None	★	★		R	E	C	Information Technology
Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic (51-4012): Develop programs to control machining or processing of metal or plastic parts by automatic machine tools, equipment, or systems.	298	363	10	24	40	↑	\$24.02 \$30.41	Postsecondary non-degree award	None	Moderate-term on-the-job training	★	★		C	I	R	Manufacturing
Computer Occupations, All Other (15-1199): All computer occupations not listed separately. Includes Web Administrators, Database Architects, Geographic Information Systems Technicians, Business Intelligence Analysts, IT Project Managers, Video Game Designers, and Software Quality Assurance Engineers/Testers.	1,041	1,234	18	64	101	↑	\$24.04 \$49.39	Bachelor's degree	None	None	★	★					Information Technology

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	2018	2028	Exits	Transfers	Total												
Computer Operators (43-9011): Monitor and control computer and peripheral data processing equipment to process business, scientific, engineering, and other data. Monitor and respond to operating and error messages. May enter commands at a computer terminal or set device controls.	210	171	9	14	19	↓	NP NP	High school diploma or equivalent	None	Moderate-term on-the-job training	★	★		C	R	Information Technology	
Computer Programmers (15-1131): Create, modify, and test code, forms, and scripts that allow computer applications to run. May assist software developers by analyzing user needs and designing solutions. May develop and write programs to store, locate, and retrieve specific documents or data.	1,410	1,334	22	74	88	↗	\$23.47 \$35.69	Bachelor's degree	None	None	★	★		I	C	Information Technology	
Computer Science Teachers, Postsecondary (25-1021): Teach courses in computer science. May specialize in a field of computer science, such as the design and function of computers or operations and research analysis. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	111	115	4	5	9	↘	\$57,518 \$91,461	Doctoral or professional degree	None	None		★		S	I	C	Education & Training
Computer Systems Analysts (15-1121): Analyze science, engineering, business, and other data processing problems to implement and improve computer systems. Analyze requirements, problems, and procedures to improve systems. Review computer system capabilities, workflow, and limitations.	2,630	2,902	53	147	227	↑	\$32.15 \$44.27	Bachelor's degree	None	None	★	★		I	C	R	Information Technology
Computer User Support Specialists (15-1151): Provide technical assistance to computer system users. Answer questions or resolve computer problems for clients in person, via telephone or from remote location. May provide assistance concerning the use of computer hardware and software.	3,266	3,610	63	219	316	↑	\$17.60 \$24.80	Some college, no degree	None	None	★			R	I	C	Information Technology
Computer, Automated Teller, and Office Machine Repairers (49-2011): Repair, maintain, or install computers, word processing systems, automated teller machines, and electronic office machines such as duplicating and fax machines.	642	646	18	50	68	↗	\$15.07 \$24.04	Some college, no degree	None	Short-term on-the-job training	★	★		R	C	I	Manufacturing
Computer-Controlled Machine Tool Operators, Metal and Plastic (51-4011): Operate computer-controlled machines or robots to perform one or more machine functions on metal or plastic work pieces.	3,156	2,952	88	226	294	↗	\$15.87 \$21.26	High school diploma or equivalent	None	Moderate-term on-the-job training	★			R	C	Manufacturing	
Concierges (39-6012): Assist patrons at hotel, apartment, or office building with personal services. May take messages, arrange or give advice on transportation, business services or entertainment, or monitor guest requests for housekeeping and maintenance.	34	35	2	3	5	↓	\$11.98 \$13.90	High school diploma or equivalent	None	Moderate-term on-the-job training				S	E	Hospitality & Tourism	
Conservation Scientists (19-1031): Manage, improve, and protect natural resources to maximize use without damaging the environment. May conduct soil surveys and develop plans to eliminate soil erosion or protect rangelands. May identify best ways to conserve soil and water.	59	62	1	5	6	↘	\$21.80 \$29.51	Bachelor's degree	None	None		★		R	I	E	Science, Technology, Engineering & Mathematics

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	Employment		Avg. Annual Openings		Total				Experience	Training	1 st				2 nd	3 rd		
	2018	2028	Exits	Transfers														
Construction and Building Inspectors (47-4011): Inspect structures using engineering skills to determine structural soundness and compliance with specifications, building codes, and other regulations. Inspections may be general or limited to a specific area, such as electrical or plumbing.	417	458	24	30	58	↗	\$20.02 \$27.86	High school diploma or equivalent	5 years or more	Moderate-term on-the-job training	★	★	★	R	C	I	Government & Public Administration	
Construction Laborers (47-2061): Perform tasks involving physical labor at construction sites. May operate hand or power tools such as air hammers, earth tampers, cement mixers, or hoists. May clean or prepare sites, dig trenches, set excavation braces, erect scaffolding, or clean up rubble or debris.	4,000	4,399	140	327	507	↑	\$15.07 \$18.60	No formal educational credential	None	Short-term on-the-job training	★			R	C		Architecture & Construction	
Construction Managers (11-9021): Plan, direct, or coordinate - usually through subordinate supervisors - construction and maintenance of structures, facilities, and systems. Participate in the conceptual development of a project and oversee organization, schedule, budget, and implementation.	1,907	2,095	42	102	163	↑	\$30.68 \$42.51	Bachelor's degree	None	Moderate-term on-the-job training		★		E	R	C	Architecture & Construction	
Control and Valve Installers and Repairers, Except Mechanical Door (49-9012): Install, repair, and maintain mechanical regulating and controlling devices, such as electric meters, gas regulators, thermostats, safety and flow valves, and other mechanical governors.	117	120	3	7	10	↘	\$20.64 \$27.95	High school diploma or equivalent	None	Moderate-term on-the-job training	★	★		R	C	I	Architecture & Construction	
Conveyor Operators and Tenders (53-7011): Control or tend conveyors or conveyor systems that move materials or products to and from stockpiles, processing stations, departments, or vehicles. May control speed and routing of materials or products.	36	37	1	3	4	↓	\$13.09 \$15.92	No formal educational credential	None	Short-term on-the-job training	★			R	C		Architecture & Construction	
Cooks, All Other (35-2019): All cooks not listed separately.	n	n	n	n	n	↘	NP NP	No formal educational credential	None	Moderate-term on-the-job training								Hospitality & Tourism
Cooks, Fast Food (35-2011): Prepare and cook food in a fast food restaurant with a limited menu. Duties of these cooks are limited to preparation of a few basic items and normally involve operating large-volume, single-purpose cooking equipment.	1,648	1,491	83	139	206	↗	\$8.92 \$11.10	No formal educational credential	None	Short-term on-the-job training	★			R	C		Hospitality & Tourism	
Cooks, Institution and Cafeteria (35-2012): Prepare and cook large quantities of food for institutions such as schools, hospitals, or cafeterias.	1,573	1,646	85	142	234	↗	\$12.81 \$16.14	No formal educational credential	None	Short-term on-the-job training	★	★		R	C		Hospitality & Tourism	
Cooks, Restaurant (35-2014): Prepare, season, and cook dishes such as soups, meats, vegetables, or desserts in restaurants. May order supplies, keep records and accounts, price items on menu, or plan menu.	6,703	8,064	392	653	1,181	↑	\$12.07 \$15.06	No formal educational credential	Less than 5 years	Moderate-term on-the-job training	★			R	E		Hospitality & Tourism	

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	Employment		Avg. Annual Openings					Education	Experience	Training				1 st	2 nd	3 rd	
	2018	2028	Exits	Transfers	Total												
Cooks, Short Order (35-2015): Prepare and cook to order a variety of foods that require only a short preparation time. May take orders from customers and serve patrons at counters or tables.	1,912	1,857	100	167	261	↗	\$10.03 \$11.89	No formal educational credential	None	Short-term on-the-job training				R	C		Hospitality & Tourism
Cooling and Freezing Equipment Operators and Tenders (51-9193): Operate or tend equipment, such as cooling and freezing units, refrigerators, batch freezers, and freezing tunnels to cool or freeze products, food, blood plasma, and chemicals.	92	96	4	7	11	↘	NP NP	High school diploma or equivalent	None	Moderate-term on-the-job training	★			R	C	I	Manufacturing
Correctional Officers and Jailers (33-3012): Guard inmates in penal or rehabilitative institutions in accordance with established regulations and procedures. May guard prisoners in transit between jail, courtroom, prison, or other point.	1,166	1,097	43	57	93	↗	\$17.22 \$22.16	High school diploma or equivalent	None	Moderate-term on-the-job training	★	★	★	R	E	C	Law, Public Safety, Corrections & Security
Correspondence Clerks (43-4021): Compose letters or electronic correspondence in reply to requests for merchandise, damage claims, credit and other information, delinquent accounts, incorrect billings, or unsatisfactory services. May gather data to formulate reply and prepare correspondence.	137	150	6	10	17	↘	NP NP	High school diploma or equivalent	None	Short-term on-the-job training				C	E		Business Management & Administration
Cost Estimators (13-1051): Prepare cost estimates for product manufacturing, construction projects, or services to aid management in bidding on or determining price of product or service. May specialize according to particular service performed or type of product manufactured.	913	989	24	70	102	↗	\$22.06 \$30.51	Bachelor's degree	None	Moderate-term on-the-job training		★		C	E		Architecture & Construction
Costume Attendants (39-3092): Select, fit, and take care of costumes for cast members, and aid entertainers.	n	n	n	n	n	↘	NP NP	High school diploma or equivalent	None	Short-term on-the-job training	★			C	R		Hospitality & Tourism
Counselors, All Other (21-1019): All counselors not listed separately.	n	n	n	n	n	↘	NP NP	Master's degree	None	None		★					Human Services
Counter and Rental Clerks (41-2021): Receive orders, generally in person, for repairs, rentals, and services. May describe available options, compute cost, and accept payment.	2,038	2,144	106	162	279	↗	\$11.17 \$16.22	No formal educational credential	None	Short-term on-the-job training				C	E		Marketing
Counter Attendants, Cafeteria, Food Concession, and Coffee Shop (35-3022): Serve food to diners at counter or from a steam table. Counter attendants who also wait tables are included in Waiters and Waitresses (35-3031).	1,159	1,153	130	121	250	↗	\$8.66 \$10.44	No formal educational credential	None	Short-term on-the-job training				R	S	E	Hospitality & Tourism

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	Employment		Avg. Annual Openings					Education	Experience	Training				1 st	2 nd	3 rd		
	2018	2028	Exits	Transfers	Total													
Couriers and Messengers (43-5021): Pick up and deliver messages, documents, packages, and other items between offices or departments within an establishment or directly to other business concerns, traveling by foot, bicycle, motorcycle, automobile, or public conveyance.	279	303	12	16	30	↗	\$10.25 \$12.98	High school diploma or equivalent	None	Short-term on-the-job training		★			R	C	E	Transportation, Distribution & Logistics
Court Reporters (23-2091): Use verbatim methods and equipment to capture, store, retrieve, and transcribe pretrial and trial proceedings or other information. Includes stenocaptioners who operate computerized captioning equipment to provide captions of broadcasts for hearing-impaired viewers.	66	67	2	4	6	↘	NA NA	Postsecondary non-degree award	None	Short-term on-the-job training		★	★		C	E		Law, Public Safety, Corrections & Security
Court, Municipal, and License Clerks (43-4031): Perform clerical duties for courts, municipalities, or government licensing agencies and bureaus. May prepare docket of cases; prepare agendas or bylaws for town or city council; keep fiscal records; issue licenses or permits; and record data or collect fees.	468	491	22	23	47	↗	\$13.98 \$18.46	High school diploma or equivalent	None	Long-term on-the-job training					C	E		Government & Public Administration
Craft Artists (27-1012): Create or reproduce hand-made objects for sale and exhibition using a variety of techniques, such as welding, weaving, pottery, and needlecraft.	107	106	5	6	11	↘	\$11.46 \$15.58	No formal educational credential	None	Long-term on-the-job training	★	★		A	R	E		Arts, Audio/Video Technology & Communications
Crane and Tower Operators (53-7021): Operate mechanical boom and cable or tower and cable equipment to lift and move materials, machines, or products in many directions.	139	155	5	12	19	↗	NP NP	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training	★	★		R	C	I		Architecture & Construction
Credit Analysts (13-2041): Analyze credit data and financial statements of individuals or firms to determine the degree of risk involved in extending credit or lending money. Prepare reports with credit information for use in decision making.	152	161	4	11	16	↘	\$27.97 \$37.96	Bachelor's degree	None	None					C	E		Finance
Credit Authorizers, Checkers, and Clerks (43-4041): Authorize credit charges against customer accounts. Investigate history and credit standing of individuals or business establishments applying for credit. May interview applicants, or notify customers of acceptance or rejection of credit.	124	124	4	8	12	↘	\$16.48 \$21.33	High school diploma or equivalent	None	Moderate-term on-the-job training					C	E		Finance
Credit Counselors (13-2071): Advise and educate individuals or organizations on acquiring and managing debt. May provide guidance on the best loan type and explain requirements or restrictions. May develop debt management plans or provide budget, mortgage, and bankruptcy counseling.	388	421	10	24	37	↗	\$16.85 \$20.88	Bachelor's degree	None	Moderate-term on-the-job training					E	S	C	Human Services
Criminal Justice and Law Enforcement Teachers, Postsecondary (25-1111): Teach courses in criminal justice, corrections, and law enforcement administration. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	37	40	1	2	3	↘	\$47,549 \$66,516	Doctoral or professional degree	None	None				S	I			Education & Training

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	Employment		Avg. Annual Openings		Total				Experience	Training	1 st				2 nd	3 rd		
	2018	2028	Exits	Transfers														
Crossing Guards (33-9091): Guide or control vehicular or pedestrian traffic at such places as streets, schools, railroad crossings, or construction sites.	419	441	51	20	73	↗	\$12.81 \$14.52	No formal educational credential	None	Short-term on-the-job training				S	E	R	Law, Public Safety, Corrections & Security	
Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders (51-9021): Set up, operate, or tend machines to crush, grind, or polish materials such as coal, glass, grain, stone, food, or rubber.	225	223	7	19	26	↗	\$15.45 \$21.65	High school diploma or equivalent	None	Moderate-term on-the-job training	★			R	C	I	Manufacturing	
Curators (25-4012): Administer collections, such as artwork, collectibles, historic items, or scientific specimens of museums or other institutions. May conduct instructional, research, or public service activities of institution.	n	n	n	n	n	↘	\$17.01 \$25.01	Master's degree	None	None				E	C		Education & Training	
Customer Service Representatives (43-4051): Interact with customers to provide information in response to inquiries about products and services and to handle and resolve complaints. Excludes individuals whose duties are primarily installation, sales, or repair.	11,299	11,044	536	952	1,462	↗	\$12.55 \$18.15	High school diploma or equivalent	None	Short-term on-the-job training		★		E	S	C	Business Management & Administration	
Cutters and Trimmers, Hand (51-9031): Use hand tools or hand-held power tools to cut and trim a variety of manufactured items, such as carpet, fabric, stone, glass, or rubber.	54	38	2	4	4	↘	\$10.94 \$13.54	No formal educational credential	None	Short-term on-the-job training	★			R	C		Manufacturing	
Cutting and Slicing Machine Setters, Operators, and Tenders (51-9032): Set up, operate, or tend machines that cut or slice materials such as glass, stone, cork, rubber, tobacco, food, paper, or insulating material.	368	372	15	30	45	↗	\$12.84 \$17.43	High school diploma or equivalent	None	Moderate-term on-the-job training	★			R	C		Manufacturing	
Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic (51-4031): Set up, operate, or tend machines to saw, cut, shear, slit, punch, crimp, notch, bend, or straighten metal or plastic material.	673	614	24	48	66	↗	\$13.98 \$18.10	High school diploma or equivalent	None	Moderate-term on-the-job training	★			R	C		Manufacturing	
Dancers (27-2031): Perform dances. May perform on stage, for on-air broadcasting, or for video recording.	n	n	n	n	n	↘	NA NA	No formal educational credential	None	Long-term on-the-job training				A	R		Arts, Audio/Video Technology & Communications	
Data Entry Keyers (43-9021): Operate data entry device, such as keyboard or photo composing perforator. Duties may include verifying data and preparing materials for printing.	1,296	1,050	53	82	110	↗	\$11.64 \$16.05	High school diploma or equivalent	None	Short-term on-the-job training	★			C	R	E	Business Management & Administration	

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	2018	2028	Exits	Transfers	Total												
Database Administrators (15-1141): Administer, test, and implement computer databases, applying knowledge of database management systems. Coordinate changes to computer databases. May plan, coordinate, and implement security measures to safeguard computer databases.	351	389	7	19	30	↑	\$31.10 \$46.04	Bachelor's degree	None	None	★	★		C	I		Information Technology
Demonstrators and Product Promoters (41-9011): Demonstrate merchandise and answer questions for the purpose of creating public interest in buying the product. May sell demonstrated merchandise.	264	288	28	19	49	↗	\$11.11 \$15.77	No formal educational credential	None	Short-term on-the-job training				E	C	R	Marketing
Dental Assistants (31-9091): Assist dentist, set up equipment, prepare patient for treatment, and keep records.	1,348	1,489	66	93	173	↑	\$18.96 \$23.27	Postsecondary non-degree award	None	None	★	★	★	C	R	S	Health Science
Dental Hygienists (29-2021): Clean teeth and examine oral areas, head, and neck for signs of oral disease. May educate patients on oral hygiene, take and develop x-rays, or apply fluoride or sealants.	1,380	1,520	60	37	111	↑	\$33.64 \$38.76	Associate's degree	None	None		★	★	S	R	C	Health Science
Dental Laboratory Technicians (51-9081): Construct and repair full or partial dentures or dental appliances.	194	216	9	16	27	↑	\$15.76 \$19.60	High school diploma or equivalent	None	Moderate-term on-the-job training	★	★		R	I	C	Manufacturing
Dentists, All Other Specialists (29-1029): All dentists not listed separately.	n	n	n	n	n	↓	NP NP	Doctoral or professional degree	None	Internship or Residency		★	★				Health Science
Dentists, General (29-1021): Examine, diagnose, and treat diseases, injuries, and malformations of teeth and gums. May treat diseases of nerve, pulp, and other dental tissues affecting oral hygiene and retention of teeth. May fit dental appliances or provide preventive care.	578	622	13	5	22	↘	\$54.71 \$99.84	Doctoral or professional degree	None	None		★	★	I	R	S	Health Science
Designers, All Other (27-1029): All designers not listed separately.	n	n	n	n	n	↓	NP NP	Bachelor's degree	None	None							Arts, Audio/Video Technology & Communications
Desktop Publishers (43-9031): Format typescript and graphic elements using computer software to produce publication-ready material.	128	98	5	8	10	↓	\$15.63 \$24.10	Associate's degree	None	Short-term on-the-job training	★	★		A	I	C	Arts, Audio/Video Technology & Communications

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	2018	2028	Exits	Transfers	Total													
Detectives and Criminal Investigators (33-3021): Conduct investigations related to suspected violations of Federal, State, or local laws to prevent or solve crimes.	344	357	8	15	24	↗	\$26.78 \$34.26	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training		★	★	E	C	I	Law, Public Safety, Corrections & Security	
Diagnostic Medical Sonographers (29-2032): Produce ultrasonic recordings of internal organs for use by physicians.	262	310	7	9	21	↗	\$31.03 \$39.20	Associate's degree	None	None		★	★	I	S	R	Health Science	
Dietetic Technicians (29-2051): Assist in the provision of food service and nutritional programs, under the supervision of a dietitian. May plan and produce meals based on established guidelines, teach principles of food and nutrition, or counsel individuals.	108	117	3	6	10	↘	\$11.33 \$14.10	Associate's degree	None	None				S	I	R	Health Science	
Dietitians and Nutritionists (29-1031): Plan and conduct food service or nutritional programs to assist in the promotion of health and control of disease. May supervise activities of a department providing quantity food services, counsel individuals, or conduct nutritional research.	321	363	11	10	25	↑	\$22.60 \$29.57	Bachelor's degree	None	Internship or Residency		★	★	I	S		Health Science	
Dining Room and Cafeteria Attendants and Bartender Helpers (35-9011): Clean tables, remove dirty dishes, replace soiled table linens; set tables; replenish supply of clean linens, silverware, glassware, and dishes; supply service bar with food; and serve items such as water, condiments, and coffee.	1,537	1,676	132	142	288	↑	\$8.38 \$9.54	No formal educational credential	None	Short-term on-the-job training				R	C	S	Hospitality & Tourism	
Directors, Religious Activities and Education (21-2021): Plan, direct, or coordinate programs designed to promote the religious education or activities of a denominational group. May provide counseling and guidance relative to marital, health, financial, and religious problems.	503	557	26	39	70	↑	NP NP	Bachelor's degree	Less than 5 years	None		★		E	S	C	Human Services	
Dishwashers (35-9021): Clean dishes, kitchen, food preparation equipment, or utensils.	2,634	2,684	198	224	427	↗	\$8.99 \$11.01	No formal educational credential	None	Short-term on-the-job training				R	C		Hospitality & Tourism	
Dispatchers, Except Police, Fire, and Ambulance (43-5032): Schedule and dispatch workers, work crews, equipment, or service vehicles for conveyance of materials, freight or passengers, or for normal installation, service, or emergency repairs rendered outside the place of business.	599	587	21	35	55	↗	\$15.55 \$21.61	High school diploma or equivalent	None	Moderate-term on-the-job training	★	★		C	R	E	Transportation, Distribution & Logistics	
Drafters, All Other (17-3019): All drafters not listed separately.	n	n	n	n	n	↓	NP NP	Associate's degree	None	None		★					Manufacturing	

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	2018	2028	Exits	Transfers	Total												
Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic (51-4032): Set up, operate, or tend drilling machines to drill, bore, ream, mill, or countersink metal or plastic work pieces.	72	57	2	4	4	↓	\$14.63 \$18.17	High school diploma or equivalent	None	Moderate-term on-the-job training				R	C	I	Manufacturing
Driver/Sales Workers (53-3031): Drive truck or other vehicle over established routes or within a set territory and sell or deliver goods such as food products, including restaurant take-out; or pick up or deliver items such as commercial laundry. May take orders, collect payment, or stock merchandise.	2,439	2,389	99	175	269	↗	\$8.41 \$11.25	High school diploma or equivalent	None	Short-term on-the-job training				R	E		Marketing
Drywall and Ceiling Tile Installers (47-2081): Apply plasterboard or other wallboard to ceilings or interior walls of buildings. Apply or mount acoustical tiles or blocks, strips, or sheets of shock-absorbing materials to ceilings and walls of buildings to reduce or reflect sound.	442	448	13	31	45	↗	\$9.27 \$18.43	No formal educational credential	None	Moderate-term on-the-job training	★			R	C		Architecture & Construction
Earth Drillers, Except Oil and Gas (47-5021): Operate a variety of drills such as rotary, churn, and pneumatic to tap sub-surface water and salt deposits, to remove core samples during mineral exploration or soil testing, and to facilitate the use of explosives in mining or construction.	81	88	3	8	12	↘	\$19.16 \$25.87	High school diploma or equivalent	None	Moderate-term on-the-job training	★	★	★	R	I	C	Agriculture, Food & Natural Resources
Economics Teachers, Postsecondary (25-1063): Teach courses in economics. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	80	85	3	4	7	↘	\$75,895 \$139,388	Doctoral or professional degree	None	None				S	I		Education & Training
Economists (19-3011): Conduct research, prepare reports, or formulate plans to address economic problems related to the production and distribution of goods and services or monetary and fiscal policy. May collect and process economic or statistical data using sampling or econometric methods.	68	76	1	4	6	↗	\$22.51 \$27.95	Master's degree	None	None				I	C	E	Science, Technology, Engineering & Mathematics
Editors (27-3041): Plan, coordinate, or edit content of material for publication. May review proposals and drafts for possible publication. Includes technical editors.	457	441	14	35	47	↗	\$18.60 \$25.80	Bachelor's degree	Less than 5 years	None				A	E	C	Arts, Audio/Video Technology & Communications
Education Administrators, All Other (11-9039): All education administrators not listed separately. Includes Distance Learning Coordinators, and Fitness and Wellness Coordinators	74	85	2	4	7	↗	\$21.16 \$26.44	Bachelor's degree	Less than 5 years	None				E	C	S	Education & Training
Education Administrators, Elementary and Secondary School (11-9032): Plan, direct, or coordinate the academic, administrative, or auxiliary activities of public or private elementary or secondary level schools.	1,458	1,479	38	76	116	↗	\$70,216 \$91,764	Master's degree	5 years or more	None				E	S	C	Education & Training

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	2018	2028	Exits	Transfers	Total												
Education Administrators, Postsecondary (11-9033): Plan, direct, or coordinate research, instructional, student administration and services, and other educational activities at postsecondary institutions, including universities, colleges, and junior and community colleges.	810	861	22	43	70	↗	\$29.50 \$41.10	Master's degree	Less than 5 years	None				E	C	S	Education & Training
Education Administrators, Preschool and Childcare Center/Program (11-9031): Plan, direct, or coordinate the academic and non-academic activities of preschool and childcare centers or programs.	473	507	13	25	41	↗	\$16.54 \$22.18	Bachelor's degree	Less than 5 years	None			★	S	E	C	Education & Training
Education Teachers, Postsecondary (25-1081): Teach courses pertaining to education, such as counseling, curriculum, guidance, instruction, teacher education, and teaching English as a second language. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	320	339	12	15	29	↗	\$41,500 \$65,560	Doctoral or professional degree	Less than 5 years	None				S	A	I	Education & Training
Education, Training, and Library Workers, All Other (25-9099): All education, training, and library workers not listed separately.	341	348	14	18	33	↗	\$12.19 \$14.92	Bachelor's degree	None	None			★				Education & Training
Educational, Guidance, School, and Vocational Counselors (21-1012): Counsel individuals and provide group educational and vocational guidance services.	1,829	1,966	62	133	209	↑	\$18.97 \$25.26	Master's degree	None	None	★		★	S			Education & Training
Electric Motor, Power Tool, and Related Repairers (49-2092): Repair, maintain, or install electric motors, wiring, or switches.	n	n	n	n	n	↘	NP NP	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training	★	★		R	C		Manufacturing
Electrical and Electronic Engineering Technicians (17-3023): Apply electrical and electronic theory and related knowledge, usually under the direction of engineers, to design, build, repair, calibrate, and modify electrical components, circuitry, controls, and machinery for subsequent evaluation and use.	877	900	29	57	88	↗	\$19.41 \$31.51	Associate's degree	None	None	★	★		R	I	C	Manufacturing
Electrical and Electronics Drafters (17-3012): Prepare wiring diagrams, circuit board assembly diagrams, and layout drawings used for the manufacture, installation, or repair of electrical equipment.	181	196	6	13	21	↘	\$19.31 \$28.08	Associate's degree	None	None	★			R	C	I	Manufacturing
Electrical and Electronics Installers and Repairers, Transportation Equipment (49-2093): Install, adjust, or maintain mobile electronics communication equipment, including sound, sonar, security, navigation, and surveillance systems on trains, watercraft, or other mobile equipment.	n	n	n	n	n	↓	NP NP	Postsecondary non-degree award	None	Long-term on-the-job training	★	★		R	C		Transportation, Distribution & Logistics

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	Employment		Avg. Annual Openings					Education	Experience	Training				1 st	2 nd	3 rd	
	2018	2028	Exits	Transfers	Total												
Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094): Repair, test, adjust, or install electronic equipment, such as industrial controls, transmitters, and antennas.	384	418	7	28	38	↗	\$19.25 \$27.74	Postsecondary non-degree award	None	Long-term on-the-job training	★	★		R	I	C	Manufacturing
Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (49-2095): Inspect, test, repair, or maintain electrical equipment in generating stations, substations, and inservice relays.	99	100	2	7	9	↘	\$23.33 \$34.72	Postsecondary non-degree award	Less than 5 years	Moderate-term on-the-job training	★	★		R	C		Architecture & Construction
Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders (51-2028): Assemble or modify electrical or electronic equipment, such as computers, test equipment, telemetering systems, electric motors, and batteries, or electromechanical equipment, such as servomechanisms, dynamometers, brakes, actuators, or appliances.	3,482	3,412	148	244	385	↗	\$35.88 \$50.99	High school diploma or equivalent	None	Moderate-term on-the-job training	★			R	C	I	Science, Technology, Engineering & Mathematics
Electrical Engineers (17-2071): Research, design, develop, test, or supervise the manufacturing and installation of electrical equipment, components, or systems for commercial, industrial, military, or scientific use.	2,029	2,165	42	96	152	↑	\$29.18 \$41.79	Bachelor's degree	None	None		★	★	I	R		Architecture & Construction
Electrical Power-Line Installers and Repairers (49-9051): Install or repair cables or wires used in electrical power or distribution systems. May erect poles and light or heavy duty transmission towers.	632	665	16	39	58	↗	\$13.06 \$17.70	High school diploma or equivalent	None	Long-term on-the-job training	★	★	★	R	I	C	Manufacturing
Electricians (47-2111): Install, maintain, and repair electrical wiring, equipment, and fixtures. Ensure that work is in accordance with relevant codes. May install or service street lights, intercom systems, or electrical control systems.	2,507	2,778	81	225	333	↑	\$17.94 \$26.72	High school diploma or equivalent	None	Apprenticeship	★	★	★	R	I	C	Architecture & Construction
Electro-Mechanical Technicians (17-3024): Operate, test, maintain, or calibrate unmanned, robotic, servo-mechanical, or electromechanical equipment. May operate unmanned submarines, aircraft, or other equipment at worksites, such as oil rigs or hazardous waste removal.	116	115	4	7	11	↘	\$22.75 \$30.72	Associate's degree	None	None	★	★		R	I	C	Manufacturing
Electronic Equipment Installers and Repairers, Motor Vehicles (49-2096): Install, diagnose, or repair communications, sound, security, or navigation equipment in motor vehicles.	n	n	n	n	n	↘	NP NP	High school diploma or equivalent	None	Moderate-term on-the-job training	★	★		R	I	C	Transportation, Distribution & Logistics
Electronic Home Entertainment Equipment Installers and Repairers (49-2097): Repair, adjust, or install audio or television receivers, stereo systems, camcorders, video systems, or other electronic home entertainment equipment.	136	139	3	12	15	↘	\$9.40 \$16.80	Postsecondary non-degree award	None	Short-term on-the-job training	★	★		R	C		Arts, Audio/Video Technology & Communications

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	Employment		Avg. Annual Openings		Total			Education	Experience	Training				1 st	2 nd	3 rd		
	2018	2028	Exits	Transfers														
Electronics Engineers, Except Computer (17-2072): Research, design, develop, or test electronic components and systems for commercial, industrial, military, or scientific use, employing knowledge of electronic theory and materials properties. Design electronic circuits and components.	585	607	12	27	41	↗	\$36.94 \$50.30	Bachelor's degree	None	None		★	★	I	R	Science, Technology, Engineering & Mathematics		
Elementary School Teachers, Except Special Education (25-2021): Teach students basic academic, social, and other formative skills in public or private schools at the elementary level.	5,577	5,608	174	238	415	↗	\$42,685 \$59,345	Bachelor's degree	None	None			★	S	A	C	Education & Training	
Elevator and Escalator Installers and Repairers (47-4021): Assemble, install, repair, or maintain electric or hydraulic freight or passenger elevators, escalators, or dumbwaiters.	n	n	n	n	n	↗	NP NP	High school diploma or equivalent	None	Apprenticeship		★	★	★	R	I	C	Architecture & Construction
Eligibility Interviewers, Government Programs (43-4061): Determine eligibility of persons applying to receive assistance from government programs and agency resources, such as welfare, unemployment benefits, social security, and public housing.	607	631	24	35	61	↗	\$15.99 \$20.23	High school diploma or equivalent	None	Moderate-term on-the-job training				S	C	E	Government & Public Administration	
Emergency Management Directors (11-9161): Plan and direct disaster response, crisis management, or disaster preparedness training, and prepare emergency plans and procedures for natural (hurricanes, floods, earthquakes), wartime, or technological (nuclear or hazardous spill) disasters.	n	n	n	n	n	↓	\$19.39 \$27.55	Bachelor's degree	5 years or more	None		★	★	S	E		Law, Public Safety, Corrections & Security	
Emergency Medical Technicians and Paramedics (29-2041): Assess injuries, administer emergency medical care, and extricate trapped individuals. Transport injured or sick persons to medical facilities.	1,248	1,338	23	63	95	↗	\$12.79 \$17.44	Postsecondary non-degree award	None	None		★	★	★	S	I	R	Health Science
Engine and Other Machine Assemblers (51-2031): Construct, assemble, or rebuild machines such as engines, turbines, and similar equipment used in such industries as construction, extraction, textiles, and paper manufacturing.	93	78	2	8	8	↓	\$16.82 \$18.66	High school diploma or equivalent	None	Moderate-term on-the-job training		★			R	C	Manufacturing	
Engineering Teachers, Postsecondary (25-1032): Teach courses pertaining to the application of physical laws and principles of engineering for the development of machines, materials, instruments, processes, and services. Includes teachers primarily engaged in teaching and those who combine teaching and research.	n	n	n	n	n	↘	\$82,507 \$120,599	Doctoral or professional degree	None	None			★	S	I	R	Education & Training	
Engineering Technicians, Except Drafters, All Other (17-3029): All engineering technicians, except drafters, not listed separately. Includes Non-Destructive Testing Specialists; Photonics, Manufacturing Production, and Fuel Cell Technicians; and Nanotechnology Engineering Technologists and Technicians.	202	205	7	13	20	↘	\$20.10 \$26.38	Associate's degree	None	None		★	★		R	I	C	Manufacturing

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	Employment		Avg. Annual Openings		Total			Education	Experience	Training				1 st	2 nd	3 rd	
	2018	2028	Exits	Transfers													
Engineers, All Other (17-2199): All engineers not listed separately. Includes Biochemical, Validation, Energy, Manufacturing, Mechatronics, Microsystems, Photonics, Robotics, Nanosystems, Wind Energy, and Solar Energy Systems Engineers.	400	419	8	20	30	↗	\$31.03 \$46.98	Bachelor's degree	None	None		★	★				Science, Technology, Engineering & Mathematics
English Language and Literature Teachers, Postsecondary (25-1123): Teach courses in English language and literature, including linguistics and comparative literature. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	313	328	12	15	29	↗	\$43,481 \$72,923	Doctoral or professional degree	None	None		★		S	A	I	Education & Training
Entertainers and Performers, Sports and Related Workers, All Other (27-2099): All entertainers and performers, sports and related workers not listed separately.	n	n	n	n	n	↓	NA NA	No formal educational credential	None	Short-term on-the-job training							Arts, Audio/Video Technology & Communications
Environmental Engineering Technicians (17-3025): Apply theory and principles of environmental engineering to modify, test, and operate equipment and devices used in the prevention, control, and remediation of environmental pollution, including waste treatment and site remediation.	66	79	2	5	8	↗	\$20.94 \$27.41	Associate's degree	None	None				R	I	C	Agriculture, Food & Natural Resources
Environmental Engineers (17-2081): Research, design, plan, or perform engineering duties in the prevention, control, and remediation of environmental hazards using various engineering disciplines. Work may include waste treatment, site remediation, or pollution control technology.	245	287	7	13	24	↑	\$33.64 \$45.00	Bachelor's degree	None	None		★	★	I	R	C	Science, Technology, Engineering & Mathematics
Environmental Science and Protection Technicians, Including Health (19-4091): Perform laboratory and field tests to monitor the environment and investigate sources of pollution, including those that affect health, under the direction of an environmental scientist, engineer, or other specialist.	230	272	7	23	34	↑	\$17.19 \$22.67	Associate's degree	None	None	★			I	R	C	Agriculture, Food & Natural Resources
Environmental Science Teachers, Postsecondary (25-1053): Teach courses in environmental science. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	171	180	6	8	15	↘	\$50,273 \$79,658	Doctoral or professional degree	None	None				S	I	A	Education & Training
Environmental Scientists and Specialists, Including Health (19-2041): Conduct research or perform investigations for the purpose of identifying, abating, or eliminating sources of pollutants or hazards that affect either the environment or the health of the population.	385	424	8	36	48	↗	\$26.13 \$33.66	Bachelor's degree	None	None	★	★		I	R	C	Science, Technology, Engineering & Mathematics
Epidemiologists (19-1041): Investigate and describe the determinants and distribution of disease, disability, and other health outcomes, and develop the means for prevention and control.	n	n	n	n	n	↘	NP NP	Master's degree	None	None				I	S		Health Science

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	Employment		Avg. Annual Openings						Experience	Training	1 st				2 nd	3 rd		
	2018	2028	Exits	Transfers	Total													
Etchers and Engravers (51-9194): Engrave or etch metal, wood, rubber, or other materials. Includes such workers as etcher-circuit processors, pantograph engravers, and silk screen etchers.	56	55	3	4	7	↓	\$12.99 \$14.88	High school diploma or equivalent	None	Moderate-term on-the-job training	★			R	C		Manufacturing	
Excavating and Loading Machine and Dragline Operators (53-7032): Operate or tend machinery equipped with scoops, shovels, or buckets to excavate and load loose materials.	480	501	18	40	60	↗	\$13.97 \$18.67	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training				R			Architecture & Construction	
Executive Secretaries and Executive Administrative Assistants (43-6011): Provide high-level administrative support. Conduct research, prepare statistical reports, handle information requests, prepare correspondence, receive visitors, arrange conference calls, and schedule meetings.	1,612	1,301	75	88	132	↗	\$22.65 \$29.29	High school diploma or equivalent	Less than 5 years	None		★		C	E		Business Management & Administration	
Exercise Physiologists (29-1128): Assess, plan, or implement fitness programs that include exercise or physical activities such as those designed to improve cardiorespiratory function, body composition, muscular strength, muscular endurance, or flexibility.	82	88	2	3	6	↘	\$21.25 \$25.37	Bachelor's degree	None	None				S	I	R	Health Science	
Explosives Workers, Ordnance Handling Experts, and Blasters (47-5031): Place and detonate explosives to demolish structures or to loosen, remove, or displace earth, rock, or other materials. May perform specialized handling, storage, and accounting procedures.	n	n	n	n	n	↓	\$19.16 \$25.87	High school diploma or equivalent	Less than 5 years	Long-term on-the-job training	★	★	★	R	I	C	Agriculture, Food & Natural Resources	
Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic (51-4021): Set up, operate, or tend machines to extrude or draw thermoplastic or metal materials into tubes, rods, hoses, wire, bars, or structural shapes.	469	428	13	43	52	↗	\$14.34 \$18.44	High school diploma or equivalent	None	Moderate-term on-the-job training	★			R	C		Manufacturing	
Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and Glass Fibers (51-6091): Set up, operate, or tend machines that extrude and form continuous filaments from synthetic materials such as liquid polymer, rayon, and fiberglass.	n	n	n	n	n	↓	NP NP	High school diploma or equivalent	None	Moderate-term on-the-job training				R			Manufacturing	
Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders (51-9041): Set up, operate, or tend machines such as glass forming, plodder, or tuber machines to shape and form products, such as glassware, food, rubber, soap, brick, tile, clay, wax, tobacco, or cosmetics.	522	538	21	37	60	↗	\$13.79 \$15.88	High school diploma or equivalent	None	Moderate-term on-the-job training	★			R	C	I	Manufacturing	
Fabric and Apparel Patternmakers (51-6092): Draw and construct sets of precision master fabric patterns or layouts. May also mark and cut fabrics and apparel.	n	n	n	n	n	↘	NP NP	High school diploma or equivalent	None	Moderate-term on-the-job training	★			R	A	C	Manufacturing	

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	Employment		Avg. Annual Openings						Experience	Training	1 st				2 nd	3 rd		
	2018	2028	Exits	Transfers	Total													
Fabric Menders, Except Garment (49-9093): Repair tears, holes, and other defects in fabrics, such as draperies, linens, parachutes, and tents.	n	n	n	n	n	↓	NA NA	High school diploma or equivalent	None	Long-term on-the-job training	★	★		R			Manufacturing	
Fallers (45-4021): Use axes or chainsaws to fell trees using knowledge of tree characteristics and cutting techniques to control direction of fall and minimize tree damage.	n	n	n	n	n	↓	NP NP	High school diploma or equivalent	None	Moderate-term on-the-job training	★			R	C		Agriculture, Food & Natural Resources	
Family and General Practitioners (29-1062): Physicians who diagnose, treat, and help prevent diseases and injuries that commonly occur in the general population. May refer patients to specialists when needed for further diagnosis or treatment.	1,055	1,162	18	14	43	↑	# #	Doctoral or professional degree	None	Internship or Residency		★	★	I	S		Health Science	
Farm and Home Management Advisors (25-9021): Advise, instruct, and assist persons engaged in agriculture, agricultural-related processes, or home economics activities. Demonstrate procedures and apply research to solve problems; and instruct in product development, sales, and the use of machinery and equipment.	n	n	n	n	n	↓	NP NP	Master's degree	None	None				S	R	E	Agriculture, Food & Natural Resources	
Farm Equipment Mechanics and Service Technicians (49-3041): Diagnose, adjust, repair, or overhaul farm machinery and vehicles such as tractors, harvesters, dairy equipment, and irrigation systems.	63	68	2	4	6	↘	\$14.69 \$19.08	High school diploma or equivalent	None	Long-term on-the-job training	★			R	C	I	Agriculture, Food & Natural Resources	
Farm Labor Contractors (13-1074): Recruit and hire seasonal or temporary agricultural laborers. May transport, house, and provide meals for workers.	n	n	n	n	n	↓	NA NA	No formal educational credential	Less than 5 years	Short-term on-the-job training				E	R	S	Agriculture, Food & Natural Resources	
Farmers, Ranchers, and Other Agricultural Managers (11-9013): Plan, direct, or coordinate the management or operation of farms, ranches, greenhouses, aquacultural operations, nurseries, timber tracts, or other agricultural establishments.	3,989	3,922	246	147	386	↗	NA NA	High school diploma or equivalent	5 years or more	None	★			E	R	C	Agriculture, Food & Natural Resources	
Farmworkers and Laborers, Crop, Nursery, and Greenhouse (45-2092): Manually plant, cultivate, and harvest vegetables, fruits, nuts, horticultural specialties, and field crops. Use hand tools such as shovels, trowels, hoes, tampers, pruning hooks, shears, and knives.	788	817	32	99	134	↗	\$10.45 \$14.32	No formal educational credential	None	Short-term on-the-job training				R			Agriculture, Food & Natural Resources	
Farmworkers, Farm, Ranch, and Aquacultural Animals (45-2093): Attend to live farm, ranch, or aquacultural animals that may include cattle, sheep, swine, goats, horses and other equines, poultry, finfish, shellfish, and bees.	410	423	16	52	69	↗	\$10.28 \$13.99	No formal educational credential	None	Short-term on-the-job training	★			R			Agriculture, Food & Natural Resources	

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	2018	2028	Exits	Transfers	Total												
Fashion Designers (27-1022): Design clothing and accessories. Create original designs or adapt fashion trends.	103	102	3	7	10	↓	\$18.43 \$39.67	Bachelor's degree	None	None	★			A	E	R	Arts, Audio/Video Technology & Communications
Fence Erectors (47-4031): Erect and repair fences and fence gates, using hand and power tools.	n	n	n	n	n	↗	\$14.50 \$17.33	No formal educational credential	None	Moderate-term on-the-job training	★			R	C		Architecture & Construction
Fiberglass Laminators and Fabricators (51-2091): Laminate layers of fiberglass on molds to form boat decks and hulls, bodies for golf carts, automobiles, or other products.	n	n	n	n	n	↘	\$11.89 \$14.96	High school diploma or equivalent	None	Moderate-term on-the-job training	★			R	C	I	Manufacturing
File Clerks (43-4071): File correspondence, cards, invoices, receipts, and other records in alphabetical or numerical order or according to the filing system used. Locate and remove material from file when requested.	877	777	48	54	92	↗	\$9.50 \$14.77	High school diploma or equivalent	None	Short-term on-the-job training				C	R	E	Business Management & Administration
Film and Video Editors (27-4032): Edit moving images on film, video, or other media. May edit or synchronize soundtracks with images.	160	179	4	12	18	↗	\$18.82 \$27.94	Bachelor's degree	None	None	★	★		A	E	I	Arts, Audio/Video Technology & Communications
Financial Analysts (13-2051): Conduct quantitative analyses of information affecting investment programs of public or private institutions.	750	813	15	51	72	↗	\$27.20 \$37.96	Bachelor's degree	None	None				C	I	E	Finance
Financial Clerks, All Other (43-3099): All financial clerks not listed separately.	105	114	4	8	13	↘	\$15.14 \$20.73	High school diploma or equivalent	None	Short-term on-the-job training							Business Management & Administration
Financial Examiners (13-2061): Enforce or ensure compliance with laws and regulations governing financial and securities institutions and financial and real estate transactions. May examine, verify, or authenticate records.	144	148	3	8	11	↘	\$27.64 \$40.01	Bachelor's degree	None	Long-term on-the-job training				E	C		Government & Public Administration
Financial Managers (11-3031): Plan, direct, or coordinate accounting, investing, banking, insurance, securities, and other financial activities of a branch, office, or department of an establishment.	3,698	4,331	87	223	373	↑	\$36.35 \$56.49	Bachelor's degree	5 years or more	None	★	★		E	C		Finance

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	Employment		Avg. Annual Openings					Education	Experience	Training				1 st	2 nd	3 rd	
	2018	2028	Exits	Transfers	Total												
Financial Specialists, All Other (13-2099): All financial specialists not listed separately. Includes Financial Quantitative Analysts, Risk Management Specialists, Investment Underwriters, and Fraud Examiners, Investigators and Analysts.	250	271	7	15	24	↗	\$27.20 \$37.96	Bachelor's degree	None	Moderate-term on-the-job training	★	★				Finance	
Fine Artists, Including Painters, Sculptors, and Illustrators (27-1013): Create original artwork using any of a wide variety of media and techniques.	146	146	8	8	16	↘	\$19.05 \$23.47	Bachelor's degree	None	Long-term on-the-job training	★	★		A	R	Arts, Audio/Video Technology & Communications	
Fire Inspectors and Investigators (33-2021): Inspect buildings to detect fire hazards and enforce local ordinances and State laws, or investigate and gather facts to determine cause of fires and explosions.	48	50	2	2	4	↓	\$23.67 \$29.22	Postsecondary non-degree award	5 years or more	Moderate-term on-the-job training	★			R	C	I	Law, Public Safety, Corrections & Security
Firefighters (33-2011): Control and extinguish fires or respond to emergency situations where life, property, or the environment is at risk. Duties may include fire prevention, emergency medical service, hazardous material response, search and rescue, and disaster assistance.	2,167	2,288	40	112	164	↗	\$14.84 \$22.06	Postsecondary non-degree award	None	Long-term on-the-job training	★	★		R	S	E	Law, Public Safety, Corrections & Security
First-Line Supervisors of Construction and Extraction Workers (47-1011): Directly supervise and coordinate activities of construction or extraction workers.	2,802	3,034	87	216	326	↑	\$23.48 \$30.75	High school diploma or equivalent	5 years or more	None		★	★	E	R	C	Architecture & Construction
First-Line Supervisors of Correctional Officers (33-1011): Directly supervise and coordinate activities of correctional officers and jailers.	83	78	2	3	5	↓	\$26.40 \$31.78	High school diploma or equivalent	Less than 5 years	None		★		E	C	R	Law, Public Safety, Corrections & Security
First-Line Supervisors of Farming, Fishing, and Forestry Workers (45-1011): Directly supervise and coordinate the activities of agricultural, forestry, aquacultural, and related workers.	89	94	3	10	13	↘	\$13.95 \$20.39	High school diploma or equivalent	Less than 5 years	None	★			E	R	C	Agriculture, Food & Natural Resources
First-Line Supervisors of Fire Fighting and Prevention Workers (33-1021): Directly supervise and coordinate activities of workers engaged in fire fighting and fire prevention and control.	383	404	10	15	27	↗	\$22.24 \$34.76	Postsecondary non-degree award	Less than 5 years	Moderate-term on-the-job training	★	★		E	R	S	Law, Public Safety, Corrections & Security
First-Line Supervisors of Food Preparation and Serving Workers (35-1012): Directly supervise and coordinate activities of workers engaged in preparing and serving food.	4,028	4,383	183	459	678	↑	\$13.18 \$17.82	High school diploma or equivalent	Less than 5 years	None		★		E	C	R	Hospitality & Tourism

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	Employment		Avg. Annual Openings		Total				Experience	Training	1 st				2 nd	3 rd		
	2018	2028	Exits	Transfers														
First-Line Supervisors of Gaming Workers (35-1012): Supervise and coordinate activities of workers in assigned gaming areas or slot department workers. Circulate and observe operations. Ensure that stations and games are covered for each shift. May explain and interpret operating rules of house to patrons. May address service complaints.	n	n	n	n	n	↓	\$16.38 \$21.00	High school diploma or equivalent	Less than 5 years	None			★	E	C	R	Hospitality & Tourism	
First-Line Supervisors of Housekeeping and Janitorial Workers (37-1011): Directly supervise and coordinate work activities of cleaning personnel in hotels, hospitals, offices, and other establishments.	952	1,025	42	71	120	↑	\$15.15 \$20.12	High school diploma or equivalent	Less than 5 years	None	★	★		E	C	R	Architecture & Construction	
First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers (37-1012): Directly supervise and coordinate activities of workers engaged in landscaping or groundskeeping activities. May review contracts, answer inquiries from potential customers, and prepare cost estimates.	1,445	1,585	52	113	179	↑	\$19.00 \$24.15	High school diploma or equivalent	Less than 5 years	None				E	R	C	Agriculture, Food & Natural Resources	
First-Line Supervisors of Mechanics, Installers, and Repairers (49-1011): Directly supervise and coordinate the activities of mechanics, installers, and repairers. Excludes team or work leaders.	2,449	2,566	78	152	242	↗	\$24.35 \$33.95	High school diploma or equivalent	Less than 5 years	None		★		E	C	R	Manufacturing	
First-Line Supervisors of Non-Retail Sales Workers (41-1012): Directly supervise and coordinate activities of sales workers other than retail sales workers. May perform duties such as budgeting, accounting, and personnel work, in addition to supervisory duties.	2,452	2,472	80	156	238	↗	\$26.45 \$41.00	High school diploma or equivalent	Less than 5 years	None				E	C	S	Marketing	
First-Line Supervisors of Office and Administrative Support Workers (43-1011): Directly supervise and coordinate the activities of clerical and administrative support workers.	8,030	8,095	302	542	850	↗	\$19.60 \$27.76	High school diploma or equivalent	Less than 5 years	None		★		E	C	S	Business Management & Administration	
First-Line Supervisors of Personal Service Workers (39-1021): Directly supervise and coordinate activities of personal service workers, such as flight attendants, hairdressers, or caddies.	1,397	1,553	59	84	159	↑	\$13.98 \$19.38	High school diploma or equivalent	Less than 5 years	None		★		E	C	S	Human Services	
First-Line Supervisors of Police and Detectives (33-1012): Directly supervise and coordinate activities of members of police force.	515	542	13	20	36	↗	\$32.02 \$40.83	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training		★		E	S	C	Law, Public Safety, Corrections & Security	
First-Line Supervisors of Production and Operating Workers (51-1011): Directly supervise and coordinate the activities of production and operating workers, such as inspectors, precision workers, machine setters and operators, assemblers, fabricators, and plant and system operators.	3,120	3,163	100	221	325	↗	\$22.61 \$33.02	High school diploma or equivalent	Less than 5 years	None		★		E	R	C	Manufacturing	

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	Employment		Avg. Annual Openings						Experience	Training	1 st				2 nd	3 rd		
	2018	2028	Exits	Transfers	Total													
First-Line Supervisors of Protective Service Workers, All Other (33-1099): All protective service supervisors not listed separately above.	214	211	8	13	21	↓	NA NA	High school diploma or equivalent	Less than 5 years	None		★					Law, Public Safety, Corrections & Security	
First-Line Supervisors of Retail Sales Workers (41-1011): Directly supervise and coordinate activities of retail sales workers in an establishment or department. Duties may include management functions such as purchasing, budgeting, accounting, and personnel work, in addition to supervisory duties.	8,490	8,435	292	638	924	↗	\$14.95 \$21.16	High school diploma or equivalent	Less than 5 years	None	★	★		E	C	S	Marketing	
First-Line Supervisors of Transportation and Material-Moving Workers, Except Aircraft Cargo Handling (53-1048): Directly supervise and coordinate activities of transportation and material-moving machine or vehicle operators, or helpers, laborers, and material movers who move materials by hand. Excludes Aircraft Cargo Handling Supervisors (53-1011).	1,247	1,341	41	97	147	↑	\$17.77 \$25.87	High school diploma or equivalent	Less than 5 years	None		★		E	C	R	Transportation, Distribution & Logistics	
Fish and Game Wardens (33-3031): Patrol assigned area to prevent fish and game law violations. Investigate reports of damage to crops or property by wildlife. Compile biological data.	n	n	n	n	n	↓	NP NP	Bachelor's degree	None	Moderate-term on-the-job training	★			R	I	S	Agriculture, Food & Natural Resources	
Fitness Trainers and Aerobics Instructors (39-9031): Instruct or coach groups or individuals in exercise activities. Demonstrate techniques and form, observe participants, and explain to them corrective measures necessary to improve their skills.	2,227	2,573	143	256	434	↑	\$14.57 \$22.44	High school diploma or equivalent	None	Short-term on-the-job training		★		S	R	E	Human Services	
Flight Attendants (53-2031): Provide personal services to ensure the safety, security, and comfort of airline passengers during flight. Greet passengers, verify tickets, explain use of safety equipment, and serve food or beverages.	n	n	n	n	n	↘	NP NP	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training		★		E	S	C	Transportation, Distribution & Logistics	
Floor Layers, Except Carpet, Wood, and Hard Tiles (47-2042): Apply blocks, strips, or sheets of shock-absorbing, sound-deadening, or decorative coverings to floors.	n	n	n	n	n	↗	NP NP	No formal educational credential	None	Moderate-term on-the-job training	★			R	C		Architecture & Construction	
Floor Sanders and Finishers (47-2043): Scrape and sand wooden floors to smooth surfaces using floor scraper and floor sanding machine, and apply coats of finish.	89	99	3	6	10	↗	\$15.29 \$18.68	No formal educational credential	None	Moderate-term on-the-job training				R			Architecture & Construction	
Floral Designers (27-1023): Design, cut, and arrange live, dried, or artificial flowers and foliage.	292	235	9	18	21	↓	\$12.57 \$15.86	High school diploma or equivalent	None	Moderate-term on-the-job training	★			A	E	R	Arts, Audio/Video Technology & Communications	

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	Employment		Avg. Annual Openings					Education	Experience	Training				1 st	2 nd	3 rd	
	2018	2028	Exits	Transfers	Total												
Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders (51-3091): Operate or tend food or tobacco roasting, baking, or drying equipment, including hearth ovens, kiln driers, roasters, char kilns, and vacuum drying equipment.	175	187	10	15	26	↗	\$11.47 \$15.63	No formal educational credential	None	Moderate-term on-the-job training				R	C		Agriculture, Food & Natural Resources
Food Batchmakers (51-3092): Set up and operate equipment that mixes or blends ingredients used in the manufacturing of food products. Includes candy makers and cheese makers.	385	405	24	35	61	↗	\$13.14 \$16.05	High school diploma or equivalent	None	Moderate-term on-the-job training				R	C		Agriculture, Food & Natural Resources
Food Cooking Machine Operators and Tenders (51-3093): Operate or tend cooking equipment, such as steam cooking vats, deep fry cookers, pressure cookers, kettles, and boilers to prepare food products.	48	50	3	4	7	↘	\$10.13 \$13.58	High school diploma or equivalent	None	Moderate-term on-the-job training				R	C		Agriculture, Food & Natural Resources
Food Preparation and Serving Related Workers, All Other (35-9099): All food preparation and serving related workers not listed separately.	149	163	13	14	28	↗	\$9.71 \$11.42	No formal educational credential	None	Short-term on-the-job training							Hospitality & Tourism
Food Preparation Workers (35-2021): Perform a variety of food preparation duties other than cooking, such as preparing cold foods and shellfish, slicing meat, and brewing coffee or tea.	2,815	3,046	215	292	530	↑	\$10.20 \$12.69	No formal educational credential	None	Short-term on-the-job training		★		R	C		Hospitality & Tourism
Food Processing Workers, All Other (51-3099): All food processing workers not listed separately.	n	n	n	n	n	↘	\$8.09—\$8.76	No formal educational credential	None	Moderate-term on-the-job training							Agriculture, Food & Natural Resources
Food Scientists and Technologists (19-1012): Use chemistry, microbiology, engineering, and other sciences to study food processing and deterioration; analyze food to determine vitamins, fat, sugar, and protein; discover new food sources; and find ways to package, preserve, store, or distribute food.	n	n	n	n	n	↘	\$22.32 \$33.34	Bachelor's degree	None	None		★		I	R	C	Agriculture, Food & Natural Resources
Food Servers, Nonrestaurant (35-3041): Serve food to individuals outside of a restaurant environment, such as in hotel rooms, hospital rooms, residential care facilities, or cars.	1,162	1,243	88	99	195	↑	\$9.84 \$11.78	No formal educational credential	None	Short-term on-the-job training				S	R	E	Hospitality & Tourism
Food Service Managers (11-9051): Plan, direct, or coordinate activities of an organization or department that serves food and beverages. Excludes “Chefs and Head Cooks” (35-1011).	1,489	1,650	48	132	196	↑	\$23.09 \$30.31	High school diploma or equivalent	Less than 5 years	None	★	★		E	C	R	Hospitality & Tourism

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	Employment		Avg. Annual Openings					Education	Experience	Training				1 st	2 nd	3 rd	
	2018	2028	Exits	Transfers	Total												
Foreign Language and Literature Teachers, Postsecondary (25-1124): Teach languages and literature courses in languages other than English. Includes teachers of American Sign Language (ASL). Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	n	n	n	n	n	↘	\$45,868 \$79,351	Doctoral or professional degree	None	None		★		S	A	I	Education & Training
Forensic Science Technicians (19-4092): Collect, identify, classify, and analyze physical evidence related to criminal investigations. Perform tests on weapons or substances such as fiber, hair, and tissue. May testify as expert witness on evidence or crime lab techniques.	51	57	2	5	8	↗	\$23.99 \$35.00	Bachelor's degree	None	Moderate-term on-the-job training		★		I	R	C	Law, Public Safety, Corrections & Security
Forest and Conservation Technicians (19-4093): Provide technical assistance regarding the conservation of soil, water, forests, or natural resources. May compile data on the characteristics of forest tracts, or train and lead forest workers in forest propagation and fire prevention and suppression.	83	87	2	8	10	↘	\$16.02 \$23.49	Associate's degree	None	None				R	I	E	Agriculture, Food & Natural Resources
Forest and Conservation Workers (45-4011): Perform manual labor necessary to develop, maintain, or protect areas such as forests, woodlands, wetlands, and rangelands by raising seedlings, combating insects, pests, and diseases, and controlling water, erosion, and leaching of soil.	n	n	n	n	n	↓	NP NP	High school diploma or equivalent	None	Moderate-term on-the-job training				R	C	I	Agriculture, Food & Natural Resources
Forest Fire Inspectors and Prevention Specialists (33-2022): Enforce fire regulations, inspect forest for fire hazards, and recommend forest fire prevention or control measures. May report forest fires and weather conditions.	n	n	n	n	n	↗	\$14.78 \$15.41	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training				R	C	E	Law, Public Safety, Corrections & Security
Foresters (19-1032): Manage public and private forested lands for economic, recreational, and conservation purposes. May inventory type, amount, and location of standing timber, and appraise worth. May determine how to conserve wildlife habitats, creek beds, water quality, and soil stability.	117	119	2	10	12	↘	\$25.50 \$33.25	Bachelor's degree	None	None		★		R	I	E	Agriculture, Food & Natural Resources
Forestry and Conservation Science Teachers, Postsecondary (25-1043): Teach courses in forestry and conservation science. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	n	n	n	n	n	↘	NA NA	Doctoral or professional degree	None	None				S	I	R	Education & Training
Forging Machine Setters, Operators, and Tenders, Metal and Plastic (51-4022): Set up, operate, or tend forging machines to taper, shape, or form metal or plastic parts.	78	60	2	5	5	↓	\$15.34 \$18.91	High school diploma or equivalent	None	Moderate-term on-the-job training		★		R	C	I	Manufacturing
Foundry Mold and Coremakers (51-4071): Make or form wax or sand cores or molds used in the production of metal castings in foundries.	251	212	7	18	21	↓	\$13.57 \$15.49	High school diploma or equivalent	None	Moderate-term on-the-job training		★		R	C		Manufacturing

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	2018	2028	Exits	Transfers	Total												
Fundraisers (13-1131): Organize activities to raise funds or otherwise solicit and gather monetary donations or other gifts for an organization. May design and produce promotional materials. May also raise awareness of the organization's work, goals, and financial needs.	598	671	21	45	73	↑	\$18.17 \$26.78	Bachelor's degree	None	None				E	C	A	Business Management & Administration
Funeral Attendants (39-4021): Perform a variety of tasks during funeral, such as placing casket in parlor or chapel prior to service; arranging floral offerings or lights around casket; directing or escorting mourners; closing casket; and issuing and storing funeral equipment.	102	106	10	7	17	↘	\$11.70 \$17.11	High school diploma or equivalent	None	Short-term on-the-job training		★		S	E	R	Human Services
Funeral Service Managers (11-9061): Plan, direct, or coordinate the services or resources of funeral homes. Includes activities such as determining prices for services or merchandise, and managing the facilities of funeral homes.	74	78	2	4	6	↘	\$24.58 \$34.12	Associate's degree	Less than 5 years	None	★	★		E	C	S	Human Services
Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders (51-9051): Operate or tend heating equipment other than basic metal, plastic, or food processing equipment. Includes activities, such as annealing glass, drying lumber, curing rubber, removing moisture from materials, or boiling soap.	40	39	2	2	4	↓	\$15.91 \$21.03	High school diploma or equivalent	None	Moderate-term on-the-job training	★			R	C		Manufacturing
Furniture Finishers (51-7021): Shape, finish, and refinish damaged, worn, or used furniture or new high-grade furniture to specified color or finish.	40	42	2	3	5	↓	NP NP	High school diploma or equivalent	None	Short-term on-the-job training	★			R	A		Manufacturing
Gaming and Sports Book Writers and Runners (39-3012): Post information enabling patrons to wager on races and sporting events. May operate random number generating equipment and announce numbers. Assist in operating games such as keno and bingo. Receive, verify, and record wagers. Process patrons' winning tickets and payout winnings for wagers.	n	n	n	n	n	↓	NA NA	High school diploma or equivalent	None	Short-term on-the-job training			★	C	E	R	Hospitality & Tourism
Gaming Change Persons and Booth Cashiers (41-2012): Exchange coins, tokens, and chips for patrons' money. May issue payoffs and obtain customer's signature on receipt. May operate a booth in the slot machine area and furnish change persons with money bank at the start of the shift, or count and audit money in drawers.	n	n	n	n	n	↓	NP NP	No formal educational credential	None	Short-term on-the-job training				C	E	R	Hospitality & Tourism
Gaming Dealers (39-3011): Operate table games. Stand or sit behind table and operate games of chance by dispensing the appropriate number of cards or blocks to players, or operating other gaming equipment. Distribute winnings or collect players' money or chips.	197	168	11	17	25	↗	\$8.16—\$8.99	High school diploma or equivalent	None	Short-term on-the-job training			★	C	E	R	Hospitality & Tourism
Gaming Managers (11-9071): Plan, direct, or coordinate gaming operations in a casino. May formulate house rules.	n	n	n	n	n	↓	NP NP	High school diploma or equivalent	Less than 5 years	None		★		E	C		Hospitality & Tourism

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	2018	2028	Exits	Transfers													
Gas Compressor and Gas Pumping Station Operators (53-7071): Operate steam, gas, electric motor, or internal combustion engine driven compressors. Transmit, compress, or recover gases, such as butane, nitrogen, hydrogen, and natural gas.	n	n	n	n	n	↓	NP NP	High school diploma or equivalent	None	Moderate-term on-the-job training				R	C	Transportation, Distribution & Logistics	
Gas Plant Operators (51-8092): Distribute or process gas for utility companies and others by controlling compressors to maintain specified pressures on main pipelines.	49	45	1	4	5	↓	\$30.56 \$34.95	High school diploma or equivalent	None	Long-term on-the-job training				R	C	Architecture & Construction	
General and Operations Managers (11-1021): Plan, direct, or coordinate the operations of public or private sector organizations. Duties include formulating policies, managing operations, and planning use of materials and human resources, but are too diverse to be classified in any one functional area.	13,272	14,326	289	909	1,303	↑	\$29.07 \$50.02	Bachelor's degree	5 years or more	None	★	★		E	C	S	Business Management & Administration
Genetic Counselors (29-9092): Assess individual or family risk for a variety of inherited conditions, such as genetic disorders and birth defects. Provide information to other healthcare providers or to individuals and families concerned with the risk of inherited conditions.	n	n	n	n	n	↘	NP NP	Master's degree	None	None			★	S	I	A	Health Science
Geographers (19-3092): Study the nature and use of areas of the Earth's surface, relating and interpreting interactions of physical and cultural phenomena. Conduct research on physical aspects of a region, including land forms, climate, soils, plants, and animals, and spatial implications of human activities in an area, as well as interdependence between regions.	n	n	n	n	n	↓	NP NP	Bachelor's degree	None	None				I	R	A	Science, Technology, Engineering & Mathematics
Geography Teachers, Postsecondary (25-1064): Teach courses in geography. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	n	n	n	n	n	↓	\$52,576 \$90,055	Doctoral or professional degree	None	None			★	S	I		Education & Training
Geological and Petroleum Technicians (19-4041): Assist scientists or engineers in the use of electronic, sonic, or nuclear measuring instruments in both laboratory and production activities to obtain data indicating potential resources such as metallic ore, minerals, gas, coal, or petroleum.	n	n	n	n	n	↘	NP NP	Associate's degree	None	Moderate-term on-the-job training	★	★		R	I	C	Agriculture, Food & Natural Resources
Geoscientists, Except Hydrologists and Geographers (19-2042): Study the composition, structure, and other physical aspects of the Earth. May use geological, physics, and math knowledge to explore for oil, gas, minerals, or water. May study the earth's internal composition, atmospheres, and oceans.	107	128	2	10	14	↗	\$26.92 \$38.33	Bachelor's degree	None	None			★	★	I	R	Science, Technology, Engineering & Mathematics
Glaziers (47-2121): Install glass in windows, skylights, store fronts, and display cases, or on surfaces such as building fronts, interior walls, ceilings, and tabletops.	222	243	8	19	29	↗	\$13.88 \$18.91	High school diploma or equivalent	None	Apprenticeship	★			R	C		Architecture & Construction

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	2018	2028	Exits	Transfers	Total													
Graders and Sorters, Agricultural Products (45-2041): Grade, sort, or classify unprocessed food and other agricultural products by size, weight, color, or condition.	16	17	1	2	3	↘	NA NA	No formal educational credential	None	Short-term on-the-job training	★			R	C		Agriculture, Food & Natural Resources	
Graduate Teaching Assistants (25-1191): Assist faculty or other instructional staff in postsecondary institutions by performing teaching or teaching-related duties, such as teaching lower level courses, developing teaching materials, preparing and giving examinations, and grading examinations or papers. Must be enrolled in a graduate school program.	n	n	n	n	n	↘	NA NA	Bachelor's degree	None	None				S	C		Education & Training	
Graphic Designers (27-1024): Design or create graphics to meet specific commercial or promotional needs, such as packaging, displays, or logos. May use a variety of mediums to achieve artistic or decorative effects.	1,009	1,071	34	70	110	↑	\$17.09 \$23.60	Bachelor's degree	None	None	★	★		A	R	E	Arts, Audio/Video Technology & Communications	
Grinding and Polishing Workers, Hand (51-9022): Grind, sand, or polish - using hand tools or hand-held power tools - a variety of metal, wood, stone, clay, plastic, or glass objects. Includes chippers, buffers, and finishers.	125	99	3	10	10	↓	\$12.73 \$18.42	No formal educational credential	None	Moderate-term on-the-job training				R	C		Manufacturing	
Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic (51-4033): Set up, operate, or tend grinding and related tools that remove excess material or burrs from surfaces, sharpen edges or corners, or buff, hone, or polish metal or plastic work pieces.	794	734	32	55	81	↗	\$14.35 \$17.26	High school diploma or equivalent	None	Moderate-term on-the-job training	★			R			Manufacturing	
Grounds Maintenance Workers, All Other (37-3019): All grounds maintenance workers not listed separately.	n	n	n	n	n	↘	\$14.88 \$17.26	No formal educational credential	None	Short-term on-the-job training							Agriculture, Food & Natural Resources	
Hairdressers, Hairstylists, and Cosmetologists (39-5012): Provide beauty services such as shampooing, cutting, coloring, and styling hair, and massaging and treating scalp. May apply makeup, dress wigs, perform hair removal, and provide nail and skin care services.	4,702	5,143	299	314	657	↑	\$8.59 \$11.38	Postsecondary non-degree award	None	None	★		★	A	E	S	Human Services	
Hazardous Materials Removal Workers (47-4041): Identify, remove, pack, transport, or dispose of hazardous materials such as asbestos, lead paint, waste oil, fuel, radioactive materials, or contaminated soil. Training and certification in hazardous materials handling are usually required.	n	n	n	n	n	↑	\$16.68 \$22.93	High school diploma or equivalent	None	Moderate-term on-the-job training	★	★	★	R	C		Agriculture, Food & Natural Resources	
Health and Safety Engineers, Except Mining Safety Engineers and Inspectors (17-2111): Promote worksite or product safety by applying knowledge of industrial processes, mechanics, chemistry, psychology, and industrial health and safety laws. Includes industrial product safety engineers.	66	68	1	3	4	↓	\$33.63 \$39.17	Bachelor's degree	None	None		★	★	I	R	C	Science, Technology, Engineering & Mathematics	

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	Employment		Avg. Annual Openings		Total			Education	Experience	Training				1 st	2 nd	3 rd	
	2018	2028	Exits	Transfers													
Health Diagnosing and Treating Practitioners, All Other (29-1199): All health diagnosing and treating practitioners not listed separately. Includes Acupuncturists; Naturopathic Physicians; and Orthoptists.	217	244	6	4	13	↗	\$26.92 \$35.48	Master's degree	None	None		★				Health Science	
Health Educators (21-1091): Provide and manage health education programs that help individuals, families, and communities maintain healthy lifestyles. Collect and analyze data to identify community needs. Serve as resource to assist individuals, other health professionals, or the community.	216	243	9	17	29	↑	\$18.89 \$28.57	Bachelor's degree	None	None	★		S	E		Human Services	
Health Specialties Teachers, Postsecondary (25-1071): Teach courses in health specialties, in fields such as dentistry, laboratory technology, medicine, pharmacy, public health, therapy, and veterinary medicine.	742	896	30	38	83	↑	\$50,465 \$74,598	Doctoral or professional degree	Less than 5 years	None			S	I		Education & Training	
Health Technologists and Technicians, All Other (29-2099): All health technologists and technicians not listed separately. Includes Neurodiagnostic Technologists; Ophthalmic Medical Technologists; Radiologic Technicians; and Surgical Assistants.	318	367	9	14	28	↑	\$15.20 \$19.15	Postsecondary non-degree award	None	None	★	★	★			Health Science	
Healthcare Practitioners and Technical Workers, All Other (29-9099): All healthcare practitioners and technical workers not listed separately. Includes Midwives.	255	294	6	9	19	↗	\$17.14 \$27.03	Postsecondary non-degree award	None	None		★	★			Health Science	
Healthcare Social Workers (21-1022): Provide individuals, families, and groups with the psychosocial support needed to cope with chronic, acute, or terminal illnesses. Advise family caregivers, provide patient education and counseling, and make referrals for other services.	621	707	20	45	74	↑	\$23.78 \$31.04	Master's degree	None	Internship or Residency			S	I		Human Services	
Healthcare Support Workers, All Other (31-9099): All healthcare support workers not listed separately. Includes Speech-Language Pathology Assistants and Endoscopy Technicians.	258	273	13	17	32	↗	\$11.04 \$16.51	High school diploma or equivalent	None	None		★	★			Health Science	
Hearing Aid Specialists (29-2092): Select and fit hearing aids for customers. Administer and interpret tests of hearing. Assess hearing instrument efficacy. Take ear impressions and prepare, design, and modify ear molds.	n	n	n	n	n	↘	NP NP	High school diploma or equivalent	None	Moderate-term on-the-job training	★		★	S	I	R	Health Science
Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic (51-4191): Set up, operate, or tend equipment such as heat-treating furnaces, flame-hardening machines, induction machines, soaking pits, or vacuum equipment to temper, harden, anneal, or heat-treat metal or plastic objects.	113	102	4	8	11	↓	\$14.64 \$19.65	High school diploma or equivalent	None	Moderate-term on-the-job training	★	★		R	C	Manufacturing	

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	Employment		Avg. Annual Openings						Experience	Training	1 st				2 nd	3 rd		
	2018	2028	Exits	Transfers	Total													
Heating, Air Conditioning, and Refrigeration Mechanics and Installers (49-9021): Install or repair heating, central air conditioning, or refrigeration systems, including oil burners, hot-air furnaces, and heating stoves.	2,047	2,188	58	149	221	↑	\$18.43 \$26.27	Postsecondary non-degree award	None	Long-term on-the-job training	★	★	★	R	C	I	Architecture & Construction	
Helpers, Construction Trades, All Other (47-3019): All construction trades helpers not listed separately.	67	71	2	7	9	↘	\$9.79 \$16.33	No formal educational credential	None	Short-term on-the-job training		★					Architecture & Construction	
Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters (47-3011): Help brick, block, or stonemasons, or tile and marble setters by performing duties requiring less skill. Duties include using, supplying, or holding materials or tools, and cleaning work area and equipment.	100	111	4	11	16	↗	\$15.32 \$18.69	No formal educational credential	None	Short-term on-the-job training	★			R			Architecture & Construction	
Helpers--Carpenters (47-3012): Help carpenters by performing duties requiring less skill. Duties include using, supplying or holding materials or tools, and cleaning work area and equipment.	104	116	4	11	16	↗	\$12.43 \$14.65	No formal educational credential	None	Short-term on-the-job training				R	C		Architecture & Construction	
Helpers--Electricians (47-3013): Help electricians by performing duties requiring less skill. Duties include using, supplying or holding materials or tools, and cleaning work area and equipment.	56	60	2	6	8	↘	\$11.02 \$14.98	High school diploma or equivalent	None	Short-term on-the-job training				R	C		Architecture & Construction	
Helpers--Extraction Workers (47-5081): Help extraction craft workers, such as earth drillers, blasters and explosives workers, derrick operators, and mining machine operators by performing duties requiring less skill. Duties include supplying equipment or cleaning work area.	70	78	2	7	10	↗	\$15.41 \$18.20	High school diploma or equivalent	None	Moderate-term on-the-job training	★			R	C		Agriculture, Food & Natural Resources	
Helpers--Installation, Maintenance, and Repair Workers (49-9098): Help installation, maintenance, and repair workers to maintain and repair vehicles, machinery, and equipment. Perform duties such as furnishing or holding tools, materials, and supplies, or cleaning work area, machines, and tools.	482	527	27	38	69	↗	\$10.08 \$13.88	High school diploma or equivalent	None	Short-term on-the-job training	★			R	C	I	Manufacturing	
Helpers--Painters, Paperhangers, Plasterers, and Stucco Masons (47-3014): Help painters, paperhangers, plasterers, or stucco masons by performing duties requiring less skill. Duties include using, supplying or holding materials or tools, and cleaning work area and equipment.	n	n	n	n	n	↓	NA NA	No formal educational credential	None	Short-term on-the-job training				R	C		Architecture & Construction	
Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters (47-3015): Help plumbers, pipefitters, steamfitters, or pipelayers by performing duties requiring less skill. Duties include using, supplying or holding materials or tools, and cleaning work area and equipment.	159	184	6	18	26	↑	\$12.83 \$15.99	High school diploma or equivalent	None	Short-term on-the-job training				R			Architecture & Construction	

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	Employment		Avg. Annual Openings		Total				Experience	Training	1 st				2 nd	3 rd		
	2018	2028	Exits	Transfers														
Helpers--Production Workers (51-9198): Help production workers by performing duties requiring less skill. Duties include supplying or holding materials or tools, and cleaning work area and equipment.	2,487	2,831	141	250	425	↑	\$11.84 \$15.16	High school diploma or equivalent	None	Short-term on-the-job training		★		R	C		Manufacturing	
Helpers--Roofers (47-3016): Help roofers by performing duties requiring less skill. Duties include using, supplying or holding materials or tools, and cleaning work area and equipment.	n	n	n	n	n	↘	NP NP	No formal educational credential	None	Short-term on-the-job training				R	C		Architecture & Construction	
Highway Maintenance Workers (47-4051): Maintain highways, municipal and rural roads, airport runways, and rights-of-way. Patch broken or eroded pavement, and repair guard rails, highway markers, and snow fences. May mow or clear brush from along road or plow snow from roadway.	1,733	1,800	71	125	203	↗	\$14.22 \$18.13	High school diploma or equivalent	None	Moderate-term on-the-job training				R	C		Architecture & Construction	
Historians (19-3093): Research, analyze, record, and interpret the past as recorded in sources such as government and institutional records, newspapers and other periodicals, photographs, interviews, films, electronic media, and unpublished manuscripts, such as personal diaries and letters.	n	n	n	n	n	↓	NP NP	Master's degree	None	None	★	★		I	C		Science, Technology, Engineering & Mathematics	
History Teachers, Postsecondary (25-1125): Teach courses in human history and historiography. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	106	113	4	5	10	↘	\$53,767 \$90,472	Doctoral or professional degree	None	None		★		S	I	A	Education & Training	
Hoist and Winch Operators (53-7041): Operate or tend hoists or winches to lift and pull loads using power-operated cable equipment.	n	n	n	n	n	↘	NP NP	No formal educational credential	None	Short-term on-the-job training				R	E	C	Architecture & Construction	
Home Appliance Repairers (49-9031): Repair, adjust, or install all types of electric or gas household appliances, such as refrigerators, washers, dryers, and ovens.	275	280	13	17	30	↗	\$15.07 \$22.20	High school diploma or equivalent	None	Moderate-term on-the-job training	★		★	R	C	I	Architecture & Construction	
Home Health Aides (31-1011): Provide routine healthcare such as changing bandages and dressing wounds, and applying topical medications to the elderly, convalescents, or persons with disabilities at patient's home or in a care facility. Monitor or report health changes. May provide personal care.	563	789	36	39	98	↑	\$10.88 \$12.87	High school diploma or equivalent	None	Short-term on-the-job training	★			S	R		Health Science	
Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop (35-9031): Welcome patrons, seat them at tables or in lounge, and help ensure quality of facilities and service.	1,815	1,985	212	223	452	↑	\$9.32 \$11.43	No formal educational credential	None	Short-term on-the-job training				E	S		Hospitality & Tourism	

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	Employment		Avg. Annual Openings		Total				Experience	Training	1 st				2 nd	3 rd		
	2018	2028	Exits	Transfers														
Hotel, Motel, and Resort Desk Clerks (43-4081): Accommodate hotel, motel, and resort patrons. Register and assign rooms, issue room keys or cards, keep records of occupied rooms and guest accounts, make and confirm reservations, and present statements and collect payments.	1,351	1,312	73	152	221	↗	\$10.73 \$12.49	High school diploma or equivalent	None	Short-term on-the-job training	★	★		C	E	S	Hospitality & Tourism	
Human Resources Assistants, Except Payroll and Timekeeping (43-4161): Compile and keep personnel records. Record data for employees, such as address, weekly earnings, absences, amount of sales or production, supervisory reports, and date of and reason for termination.	599	588	22	46	67	↗	\$14.71 \$19.15	Associate's degree	None	None	★	★		C	E	S	Business Management & Administration	
Human Resources Managers (11-3121): Plan, direct, or coordinate human resources activities and staff of an organization.	700	758	16	45	67	↗	\$39.65 \$56.11	Bachelor's degree	5 years or more	None		★		E	S	C	Business Management & Administration	
Human Resources Specialists (13-1071): Perform activities in the human resource area. Includes employment specialists who screen, recruit, interview, and place workers.	2,522	2,688	70	192	279	↑	\$19.56 \$28.22	Bachelor's degree	None	None	★	★		E	C	S	Business Management & Administration	
Hydrologists (19-2043): Research the distribution, circulation, and physical properties of underground and surface waters; and study the form and intensity of precipitation, its rate of infiltration into the soil, movement through the earth, and its return to the ocean and atmosphere.	87	99	2	8	11	↗	\$27.83 \$40.35	Bachelor's degree	None	None		★		I	R		Science, Technology, Engineering & Mathematics	
Industrial Engineering Technicians (17-3026): Apply engineering theory and principles to problems of industrial layout or manufacturing production, usually under the direction of engineering staff. May perform time and motion studies on operations to establish production rates or improve efficiency.	590	586	19	38	57	↗	\$22.27 \$27.96	Associate's degree	None	None	★			I	R	C	Manufacturing	
Industrial Engineers (17-2112): Design, develop, test, and evaluate integrated systems for managing industrial production processes, including human work factors, quality control, inventory control, logistics and material flow, cost analysis, and production coordination.	1,774	1,945	38	89	144	↑	\$32.37 \$43.06	Bachelor's degree	None	None	★	★	★	I	C	E	Science, Technology, Engineering & Mathematics	
Industrial Machinery Mechanics (49-9041): Repair, install, adjust, or maintain industrial production and processing machinery or refinery and pipeline distribution systems.	2,272	2,447	74	142	234	↑	\$20.08 \$26.45	High school diploma or equivalent	None	Long-term on-the-job training	★	★		R	I	C	Manufacturing	
Industrial Production Managers (11-3051): Plan, direct, or coordinate the work activities and resources necessary for manufacturing products in accordance with cost, quality, and quantity specifications.	1,201	1,219	26	62	90	↗	\$42.98 \$62.30	Bachelor's degree	5 years or more	None	★	★		E	C		Business Management & Administration	

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	Employment		Avg. Annual Openings					Education	Experience	Training				1 st	2 nd	3 rd	
	2018	2028	Exits	Transfers	Total												
Industrial Truck and Tractor Operators (53-7051): Operate industrial trucks or tractors equipped to move materials around a warehouse, storage yard, factory, construction site, or similar location. Excludes Logging Equipment Operators (45-4022).	1,278	1,373	40	109	159	↑	\$15.47 \$21.08	No formal educational credential	None	Short-term on-the-job training		★		R	C		Transportation, Distribution & Logistics
Information and Record Clerks, All Other (43-4199): All information and record clerks not listed separately.	422	441	21	29	52	↗	\$10.83 \$19.02	High school diploma or equivalent	None	Short-term on-the-job training		★					Business Management & Administration
Information Security Analysts (15-1122): Perform a variety of computer network activities, such as implement or monitor security measures; design, create, and modify web sites; or design and implement computer and data communication networks.	501	673	8	33	58	↑	\$33.09 \$46.93	Bachelor's degree	Less than 5 years	None	★	★		C	I	R	Information Technology
Inspectors, Testers, Sorters, Samplers, and Weighers (51-9061): Inspect, test, sort, sample, or weigh nonagricultural raw materials or processed, machined, fabricated, or assembled parts or products for defects, wear, and deviations from specifications. May use precision measuring instruments.	3,833	3,152	139	292	363	↗	\$15.89 \$20.53	High school diploma or equivalent	None	Moderate-term on-the-job training	★	★		C	R		Manufacturing
Installation, Maintenance, and Repair Workers, All Other (49-9099): All installation, maintenance, and repair workers not listed separately. Includes Geothermal Technicians.	258	274	10	18	30	↗	\$18.55 \$25.25	High school diploma or equivalent	None	Moderate-term on-the-job training	★	★	★				Manufacturing
Instructional Coordinators (25-9031): Develop instructional material, coordinate educational content, and incorporate current technology in specialized fields that provide guidelines to educators and instructors for developing curricula and conducting courses.	967	1,029	42	51	99	↑	\$22.59 \$31.78	Master's degree	5 years or more	None		★		S	I	E	Education & Training
Insulation Workers, Floor, Ceiling, and Wall (47-2131): Line and cover structures with insulating materials. May work with batt, roll, or blown insulation materials.	342	351	8	32	41	↗	\$14.15 \$17.84	No formal educational credential	None	Short-term on-the-job training	★			R			Architecture & Construction
Insulation Workers, Mechanical (47-2132): Apply insulating materials to pipes or ductwork, or other mechanical systems in order to help control and maintain temperature.	n	n	n	n	n	↓	NP NP	High school diploma or equivalent	None	Apprenticeship	★			R	C	I	Architecture & Construction
Insurance Appraisers, Auto Damage (13-1032): Appraise automobile or other vehicle damage to determine repair costs for insurance claim settlement. Prepare insurance forms to indicate repair cost or cost estimates and recommendations. May seek agreement with repair shop on repair costs.	n	n	n	n	n	↘	\$33.30 \$38.36	Postsecondary non-degree award	None	Moderate-term on-the-job training				C	R	E	Finance

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	Employment		Avg. Annual Openings					Education	Experience	Training				1 st	2 nd	3 rd	
	2018	2028	Exits	Transfers	Total												
Insurance Claims and Policy Processing Clerks (43-9041): Process claims forms, new insurance policies, and modifications to existing policies. Obtain information to verify accuracy and completeness of information on forms, applications, and company records. Update existing policies to reflect changes.	1,321	1,352	49	84	136	↗	\$16.21 \$21.03	High school diploma or equivalent	None	Moderate-term on-the-job training				C	E		Finance
Insurance Sales Agents (41-3021): Sell life, property, casualty, health, automotive, or other types of insurance. May refer clients to independent brokers, work as an independent broker, or be employed by an insurance company.	2,882	3,145	111	182	319	↑	\$18.60 \$30.95	High school diploma or equivalent	None	Moderate-term on-the-job training			★	E	C	S	Finance
Insurance Underwriters (13-2053): Review individual applications for insurance to evaluate degree of risk involved and determine acceptance of applications.	163	153	4	10	13	↓	\$25.44 \$38.22	Bachelor's degree	None	Moderate-term on-the-job training				C	E	I	Finance
Interior Designers (27-1025): Plan, design, and furnish interiors of residential, commercial, or industrial buildings. Formulate design which is practical, aesthetic, and conducive to intended purposes, such as raising productivity, selling merchandise, or improving life style.	199	211	7	14	22	↘	\$20.42 \$29.14	Bachelor's degree	None	None	★			A	E		Architecture & Construction
Internists, General (29-1063): Physicians who diagnose and provide non-surgical treatment of diseases and injuries of internal organ systems. Provide care mainly for adults who have a wide range of problems associated with the internal organs.	153	157	2	2	4	↓	\$71.14 NP	Doctoral or professional degree	None	Internship or Residency		★	★	I	S	R	Health Science
Interpreters and Translators (27-3091): Interpret oral or sign language, or translate written text from one language into another.	112	133	5	7	14	↗	\$19.12 \$22.08	Bachelor's degree	None	None		★	★	A	S		Education & Training
Interviewers, Except Eligibility and Loan (43-4111): Interview persons by telephone, mail, in person, or by other means for the purpose of completing forms, applications, or questionnaires. Ask specific questions, record answers, and assist persons with completing form. Sort, classify, and file forms.	1,696	1,783	88	126	223	↗	\$15.01 \$18.24	High school diploma or equivalent	None	Short-term on-the-job training				C	E	S	Business Management & Administration
Janitors and Cleaners, Except Maids and Housekeeping Cleaners (37-2011): Keep buildings in clean and orderly condition. Perform heavy cleaning duties such as cleaning floors, shampooing rugs, washing walls and glass, and removing rubbish. May tend furnace or boiler.	10,129	10,791	640	738	1,444	↑	\$10.73 \$13.91	No formal educational credential	None	Short-term on-the-job training	★			R	C		Architecture & Construction
Jewelers and Precious Stone and Metal Workers (51-9071): Design, fabricate, adjust, repair, or appraise jewelry, gold, silver, other precious metals, or gems. Includes diamond polishers and gem cutters, casting metal in molds, or setting precious and semi-precious stones.	122	108	7	8	14	↓	\$14.95 \$19.88	High school diploma or equivalent	None	Long-term on-the-job training	★			R	A		Manufacturing

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	Employment		Avg. Annual Openings					Education	Experience	Training				1 st	2 nd	3 rd	
	2018	2028	Exits	Transfers	Total												
Judges, Magistrate Judges, and Magistrates (23-1023): Arbitrate, advise, adjudicate, or administer justice in a court of law. May sentence defendant in criminal cases according to government statutes or sentencing guidelines. May determine liability of defendant in civil cases.	96	97	2	3	5	↓	NP NP	Doctoral or professional degree	5 years or more	Short-term on-the-job training				E	S		Law, Public Safety, Corrections & Security
Judicial Law Clerks (23-1012): Assist judges in court or by conducting research or preparing legal documents.	n	n	n	n	n	↓	NP NP	Doctoral or professional degree	None	None				C	E	I	Law, Public Safety, Corrections & Security
Kindergarten Teachers, Except Special Education (25-2012): Teach elemental natural and social science, personal hygiene, music, art, and literature to kindergarten students. Promote physical, mental, and social development. May be required to hold State certification.	406	409	16	25	41	↗	\$41,845 \$57,888	Bachelor's degree	None	None			★	S	A		Education & Training
Labor Relations Specialists (13-1075): Resolve disputes between workers and managers, negotiate collective bargaining agreements, or coordinate grievance procedures to handle employee complaints.	143	140	4	10	14	↓	\$16.91 \$36.29	Bachelor's degree	Less than 5 years	None				E	C	S	Business Management & Administration
Laborers and Freight, Stock, and Material Movers, Hand (53-7062): Manually move freight, stock, or other materials or perform other general labor. Includes all manual laborers not elsewhere classified.	6,241	6,536	288	599	917	↗	\$10.99 \$14.38	No formal educational credential	None	Short-term on-the-job training	★			R			Transportation, Distribution & Logistics
Landscape Architects (17-1012): Plan and design land areas for projects such as parks and other recreational facilities, airports, highways, hospitals, schools, land subdivisions, and commercial, industrial, and residential sites.	n	n	n	n	n	↗	NP NP	Bachelor's degree	None	Internship or Residency			★	A	I	R	Architecture & Construction
Landscaping and Groundskeeping Workers (37-3011): Landscape or maintain property grounds using hand or power tools or equipment. Tasks may include sod laying, mowing, trimming, digging, raking, planting, watering, fertilizing, sprinkler installation, or installing mortarless concrete wall units.	6,781	7,436	291	629	986	↑	\$12.12 \$15.86	No formal educational credential	None	Short-term on-the-job training	★			R	C		Agriculture, Food & Natural Resources
Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic (51-4034): Set up, operate, or tend lathe and turning machines to turn, bore, thread, form, or face metal or plastic materials such as wire, rod, or bar stock.	274	249	12	17	27	↗	\$14.74 \$18.83	High school diploma or equivalent	None	Moderate-term on-the-job training	★			R	I	C	Manufacturing
Laundry and Dry-Cleaning Workers (51-6011): Operate or tend washing or dry-cleaning machines to wash or dry-clean industrial or household articles such as cloth garments, suede, leather, furs, blankets, draperies, linens, rugs, and carpets. Includes spotters and dyers of these articles.	1,123	1,130	70	80	151	↗	\$9.76 \$11.62	No formal educational credential	None	Short-term on-the-job training	★	★		R	C		Human Services

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	Employment		Avg. Annual Openings					Education	Experience	Training				1 st	2 nd	3 rd	
	2018	2028	Exits	Transfers	Total												
Law Teachers, Postsecondary (25-1112): Teach courses in law. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	n	n	n	n	n	↓	NP NP	Doctoral or professional degree	Less than 5 years	None			S	I	E	Education & Training	
Lawyers (23-1011): Represent clients in criminal and civil litigation and other legal proceedings, draw up legal documents, or manage or advise clients on legal transactions. May specialize in a single area or may practice broadly in many areas of law.	2,304	2,459	51	63	130	↑	\$31.74 \$48.21	Doctoral or professional degree	None	None	★	★	E	I		Law, Public Safety, Corrections & Security	
Lay-Out Workers, Metal and Plastic (51-4192): Lay out reference points and dimensions on metal or plastic stock or workpieces, such as sheets, plates, tubes, structural shapes, castings, or machine parts, for further processing. Includes shipfitters.	n	n	n	n	n	↘	NP NP	High school diploma or equivalent	None	Moderate-term on-the-job training	★	★	R	C	I	Manufacturing	
Legal Secretaries (43-6012): Perform secretarial duties using legal terminology, procedures, and documents. Prepare legal papers and correspondence such as summonses, complaints, motions, and subpoenas. May also assist with legal research.	740	584	34	40	58	↗	\$18.13 \$22.14	High school diploma or equivalent	None	Moderate-term on-the-job training	★	★	C	E		Law, Public Safety, Corrections & Security	
Legal Support Workers, All Other (23-2099): All legal support workers not listed separately.	92	91	3	5	8	↓	\$21.90 \$31.35	Associate's degree	None	None		★				Law, Public Safety, Corrections & Security	
Legislators (11-1031): Develop, introduce, or enact laws and statutes at the local, tribal, State, or Federal level. Includes only workers in elected positions.	351	371	9	18	29	↗	\$17,379 \$17,967	Bachelor's degree	Less than 5 years	None			E	S		Government & Public Administration	
Librarians (25-4021): Administer libraries and perform related services in a variety of settings. Tasks may include selecting, acquiring, cataloguing, classifying, circulating, and maintaining library materials and furnishing reference, bibliographical, and readers' advisory services.	963	1,006	53	45	102	↗	\$17.47 \$26.36	Master's degree	None	None		★	C	S	E	Education & Training	
Library Assistants, Clerical (43-4121): Compile records, sort, shelve, issue, and receive materials such as books, electronic media, pictures, cards, slides and microfilm. Locate materials for loan and replace in shelving, stacks, or file. Register patrons to permit them to borrow library materials.	903	862	70	63	129	↗	\$9.65 \$12.76	High school diploma or equivalent	None	Short-term on-the-job training			C	R	S	Education & Training	
Library Science Teachers, Postsecondary (25-1082): Teach courses in library science. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	n	n	n	n	n	↓	NA NA	Doctoral or professional degree	None	None			S	I	C	Education & Training	

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	2018	2028	Exits	Transfers	Total													
Library Technicians (25-4031): Assist librarians by helping readers to use library catalogs, databases, and indexes to locate books and other materials. Sort and shelve books or other media; remove or repair damaged books or other media; register patrons; and check materials in and out of circulation.	621	589	54	39	90	↗	\$13.38 \$17.78	Postsecondary non-degree award	None	None				C	S	E	Education & Training	
Licensed Practical and Licensed Vocational Nurses (29-2061): Care for ill, injured, or convalescing patients or persons with disabilities in hospitals, nursing homes, clinics, private homes, or group homes. May work under the supervision of a registered nurse. Licensure required.	2,000	2,186	71	88	178	↑	\$21.41 \$26.11	Postsecondary non-degree award	None	None	★	★	★	S	R		Health Science	
Life Scientists, All Other (19-1099): All life scientists not listed separately.	n	n	n	n	n	↘	NP NP	Bachelor's degree	None	None		★					Science, Technology, Engineering & Mathematics	
Life, Physical, and Social Science Technicians, All Other (19-4099): All life, physical, and social science technicians not listed separately. Includes Quality Control Analysts; Precision Agriculture Technicians; and Remote Sensing Technicians.	67	76	2	6	9	↗	\$18.86 \$26.77	Associate's degree	None	None	★	★					Science, Technology, Engineering & Mathematics	
Lifeguards, Ski Patrol, and Other Recreational Protective Service (33-9092): Monitor recreational areas such as pools, beaches, or ski slopes to provide assistance and protection to participants.	254	274	35	29	66	↗	\$10.00 \$11.45	No formal educational credential	None	Short-term on-the-job training		★		R	S		Law, Public Safety, Corrections & Security	
Loading Machine Operators, Underground Mining (53-7033): Operate underground loading machine to load coal, ore, or rock into shuttle or mine car or onto conveyors. Loading equipment may include power shovels, hoisting engines equipped with cable-drawn scraper or scoop, or machines equipped with gathering arms and conveyor.	n	n	n	n	n	↓	NP NP	No formal educational credential	None	Short-term on-the-job training							Architecture & Construction	
Loan Interviewers and Clerks (43-4131): Interview loan applicants to elicit information; investigate applicants' backgrounds and verify references; prepare loan request papers; and forward findings, reports, and documents to appraisers. Review loan papers, and complete transactions upon approval.	880	958	34	59	101	↑	\$15.39 \$20.03	High school diploma or equivalent	None	Short-term on-the-job training				C	E		Human Services	
Loan Officers (13-2072): Evaluate, authorize, or recommend approval of commercial, real estate, or credit loans. Advise borrowers on financial status and payment methods. Includes mortgage loan officers and agents, collection analysts, loan servicing officers, and loan underwriters.	1,362	1,468	34	84	129	↑	\$21.13 \$36.55	Bachelor's degree	None	Moderate-term on-the-job training				C	E	S	Human Services	
Locker Room, Coatroom, and Dressing Room Attendants (39-3093): Provide personal items to patrons or customers in locker rooms, dressing rooms, or coatrooms.	n	n	n	n	n	↗	\$8.69 \$8.91	High school diploma or equivalent	None	Short-term on-the-job training			★	S	E	C	Hospitality & Tourism	

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	Employment		Avg. Annual Openings						Experience	Training	1 st				2 nd	3 rd		
	2018	2028	Exits	Transfers	Total													
Locksmiths and Safe Repairers (49-9094): Repair and open locks; make keys; change locks and safe combinations; and install and repair safes.	n	n	n	n	n	↓	\$14.64 \$26.86	High school diploma or equivalent	None	Long-term on-the-job training	★	★		R	C		Manufacturing	
Locomotive Engineers (53-4011): Drive electric, diesel-electric, steam, or gas-turbine-electric locomotives to transport passengers or freight. Interpret train orders, electronic or manual signals, and railroad rules and regulations.	21	24	1	2	3	↘	\$14.91 \$23.98	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training	★	★		R	C		Transportation, Distribution & Logistics	
Lodging Managers (11-9081): Plan, direct, or coordinate activities of an organization or department that provides lodging and other accommodations.	329	342	11	24	36	↗	\$20.99 \$28.61	High school diploma or equivalent	Less than 5 years	None	★	★		E	C	S	Hospitality & Tourism	
Log Graders and Scalers (45-4023): Grade logs or estimate the marketable content or value of logs or pulpwood in sorting yards, millpond, log deck, or similar locations. Inspect logs for defects or measure logs to determine volume.	106	91	4	12	14	↓	\$15.30 \$19.75	High school diploma or equivalent	None	Moderate-term on-the-job training				R	C		Agriculture, Food & Natural Resources	
Logging Equipment Operators (45-4022): Drive logging tractor or wheeled vehicle equipped with one or more accessories, such as bulldozer blade, frontal shear, grapple, logging arch, cable winches, hoisting rack, or crane boom, to fell tree; skid, load, unload, or stack logs; pull stumps; or clear brush.	243	214	9	28	34	↗	\$14.49 \$21.87	High school diploma or equivalent	None	Moderate-term on-the-job training				R	I	C	Agriculture, Food & Natural Resources	
Logisticians (13-1081): Analyze and coordinate the logistical functions of a firm or organization. Responsible for the entire life cycle of a product, including acquisition, distribution, internal allocation, delivery, and final disposal of resources.	644	684	16	48	68	↗	\$23.76 \$33.47	Bachelor's degree	None	None		★		E	C		Transportation, Distribution & Logistics	
Machine Feeders and Offbearers (53-7063): Feed materials into or remove materials from machines or equipment that is automatic or tended by other workers.	333	356	17	28	47	↗	\$11.34 \$16.28	No formal educational credential	None	Short-term on-the-job training				R	C		Manufacturing	
Machinists (51-4041): Set up and operate a variety of machine tools to produce precision parts and instruments. May fabricate, modify, or repair mechanical instruments. May also fabricate and modify parts to make or repair machine tools or maintain industrial machines.	2,094	2,188	71	146	226	↗	\$17.67 \$23.38	High school diploma or equivalent	None	Long-term on-the-job training	★	★		R	C	I	Manufacturing	
Magnetic Resonance Imaging Technologists (29-2035): Operate Magnetic Resonance Imaging (MRI) scanners. Monitor patient safety and comfort, and view images of area being scanned to ensure quality of pictures. May administer gadolinium contrast dosage intravenously.	259	281	7	8	17	↘	\$29.98 \$37.27	Associate's degree	Less than 5 years	None	★	★	★	R	C	S	Health Science	

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	Employment		Avg. Annual Openings					Education	Experience	Training				1 st	2 nd	3 rd	
	2018	2028	Exits	Transfers	Total												
Maids and Housekeeping Cleaners (37-2012): Perform light cleaning duties to maintain private households or commercial establishments, such as hotels and hospitals, in a clean and orderly manner. May make beds, replenish linens, clean rooms and halls, and vacuum.	5,177	5,287	370	334	715	↗	\$10.56 \$12.57	No formal educational credential	None	Short-term on-the-job training	★			R	C		Hospitality & Tourism
Mail Clerks and Mail Machine Operators, Except Postal Service (43-9051): Prepare incoming and outgoing mail for distribution. Use hand or mail machines to time stamp, open, read, sort, and route incoming mail; and address, seal, stamp, fold, stuff, and affix postage to outgoing mail or packages.	316	321	15	20	35	↗	\$11.89 \$15.32	High school diploma or equivalent	None	Short-term on-the-job training	★	★		C	R		Business Management & Administration
Maintenance and Repair Workers, General (49-9071): Perform work involving the skills of two or more maintenance or craft occupations to keep machines, mechanical equipment or structures in repair, such as pipe fitting, insulating, welding, carpentry, or repairing electrical equipment, floors, or stairs.	4,832	5,191	176	310	522	↑	\$14.91 \$20.53	High school diploma or equivalent	None	Moderate-term on-the-job training	★	★		R	C	I	Architecture & Construction
Maintenance Workers, Machinery (49-9043): Lubricate machinery, change parts, or perform other routine machinery maintenance.	162	170	6	9	16	↘	\$14.48 \$19.37	High school diploma or equivalent	None	Long-term on-the-job training	★	★		R	C	I	Manufacturing
Management Analysts (13-1111): Conduct organizational studies and evaluations, design systems and procedures, conduct work simplification and measurement studies, and prepare operations and procedures manuals to assist management in operating more efficiently and effectively.	2,844	3,264	95	193	330	↑	\$27.52 \$41.59	Bachelor's degree	Less than 5 years	None	★	★		I	E	C	Business Management & Administration
Managers, All Other (11-9199): All managers not listed separately. Includes Regulatory Affairs Managers, Compliance Managers, Investment Fund Managers, Supply Chain Managers, Security Managers, Loss Prevention Managers, Wind Energy Operations and Project Managers, and Brownfield Redevelopment Specialists and Site Managers.	1,948	2,110	51	102	169	↑	\$39.41 \$61.13	Bachelor's degree	Less than 5 years	None		★					Business Management & Administration
Manicurists and Pedicurists (39-5092): Clean and shape customers' fingernails and toenails. May polish or decorate nails.	476	529	28	29	62	↑	\$13.16 \$18.41	Postsecondary non-degree award	None	None	★		★	R	E	S	Human Services
Manufactured Building and Mobile Home Installers (49-9095): Move or install mobile homes or prefabricated buildings.	46	39	1	2	2	↓	\$14.97 \$20.38	High school diploma or equivalent	None	Short-term on-the-job training			★	R	C		Architecture & Construction
Marine Engineers and Naval Architects (17-2121): Design, develop, and evaluate the operation of marine vessels, ship machinery, and related equipment, such as power supply and propulsion systems.	n	n	n	n	n	↘	NA NA	Bachelor's degree	None	None		★	★	I	R	A	Science, Technology, Engineering & Mathematics

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	Employment		Avg. Annual Openings					Education	Experience	Training				1 st	2 nd	3 rd	
	2018	2028	Exits	Transfers	Total												
Market Research Analysts and Marketing Specialists (13-1161): Research market conditions, or gather information to determine potential sales of a product or service, or create a marketing campaign. May gather information on competitors, prices, sales, and methods of marketing and distribution.	2,227	2,728	58	195	303	↑	\$18.08 \$30.03	Bachelor's degree	None	None	★		I	E	C	Marketing	
Marketing Managers (11-2021): Plan, direct, or coordinate marketing policies and programs, such as determining the demand for products and services offered by a firm and its competitors, and identify potential customers. Develop pricing strategies, oversee product development, or monitor trends.	1,197	1,305	25	86	122	↑	\$43.41 \$62.07	Bachelor's degree	5 years or more	None			E	C		Marketing	
Marriage and Family Therapists (21-1013): Diagnose and treat mental and emotional disorders, whether cognitive, affective, or behavioral, within the context of marriage and family systems. Apply psychotherapeutic and family systems theories and techniques in the delivery of services.	90	118	3	7	13	↗	\$19.99 \$21.94	Master's degree	None	Internship or Residency		★	S	A	I	Human Services	
Massage Therapists (31-9011): Perform therapeutic massages of soft tissues and joints. May assist in the assessment of range of motion and muscle strength, or propose client therapy plans.	1,559	1,767	104	90	215	↑	\$14.74 \$22.23	Postsecondary non-degree award	None	None	★	★	S	R		Health Science	
Material Moving Workers, All Other (53-7199): All material moving workers not listed separately.	n	n	n	n	n	↓	NP NP	No formal educational credential	None	Short-term on-the-job training		★				Transportation, Distribution & Logistics	
Materials Engineers (17-2131): Evaluate materials and develop machinery and processes to manufacture materials for use in products that must meet specialized design and performance specifications. Develop new uses for known materials.	73	76	2	3	5	↓	\$35.77 \$46.46	Bachelor's degree	None	None	★	★	I	R	E	Science, Technology, Engineering & Mathematics	
Materials Scientists (19-2032): Research and study the structures and chemical properties of natural and synthetic or composite materials such as metals, alloys, rubber, ceramics, semiconductors, polymers, and glass. Determine ways to strengthen or combine materials or develop new materials.	79	80	1	6	7	↘	\$45.04 \$62.10	Bachelor's degree	None	None			I	R		Science, Technology, Engineering & Mathematics	
Mathematical Science Teachers, Postsecondary (25-1022): Teach courses pertaining to mathematical concepts, statistics, and actuarial science and to the application of original and standardized mathematical techniques in solving specific problems and situations. Includes teachers primarily engaged in teaching and those who combine teaching and research.	161	168	6	8	15	↘	\$50,399 \$73,140	Doctoral or professional degree	None	None	★		S	I	A	Education & Training	
Mathematicians (15-2021): Conduct research in fundamental mathematics or in application of mathematical techniques to science, management, and other fields. Solve problems in various fields using mathematical methods.	n	n	n	n	n	↘	NP NP	Master's degree	None	None			I	C	A	Science, Technology, Engineering & Mathematics	

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	Employment		Avg. Annual Openings						Experience	Training	1 st				2 nd	3 rd		
	2018	2028	Exits	Transfers	Total													
Meat, Poultry, and Fish Cutters and Trimmers (51-3022): Use hand or hand tools to perform routine cutting and trimming of meat, poultry, and seafood.	81	87	3	7	11	↘	\$12.79 \$14.52	No formal educational credential	None	Short-term on-the-job training				R			Agriculture, Food & Natural Resources	
Mechanical Door Repairers (49-9011): Install, service, or repair automatic door mechanisms and hydraulic doors. Includes garage door mechanics.	75	84	2	5	8	↗	\$14.86 \$22.77	High school diploma or equivalent	None	Moderate-term on-the-job training	★	★		R			Architecture & Construction	
Mechanical Drafters (17-3013): Prepare detailed working diagrams of machinery and mechanical devices, including dimensions, fastening methods, and other engineering information.	336	336	11	23	34	↗	\$20.49 \$27.48	Associate's degree	None	None	★			R	C	I	Manufacturing	
Mechanical Engineering Technicians (17-3027): Apply theory and principles of mechanical engineering to modify, develop, test, or calibrate machinery and equipment under direction of engineering staff or physical scientists.	568	594	19	37	59	↗	\$19.73 \$26.81	Associate's degree	None	None	★	★		R	I		Manufacturing	
Mechanical Engineers (17-2141): Perform engineering duties in planning and designing tools, engines, machines, and other mechanically functioning equipment. Oversee installation, operation, maintenance, and repair of equipment such as centralized heat, gas, water, and steam systems.	2,501	2,676	48	127	193	↑	\$32.31 \$43.95	Bachelor's degree	None	None	★	★	★	I	R	C	Science, Technology, Engineering & Mathematics	
Media and Communication Equipment Workers, All Other (27-4099): All media and communication equipment workers not listed separately.	n	n	n	n	n	↘	\$16.87 \$25.03	High school diploma or equivalent	None	Short-term on-the-job training		★					Arts, Audio/Video Technology & Communications	
Media and Communication Workers, All Other (27-3099): All media and communication workers not listed separately.	n	n	n	n	n	↓	NP NP	High school diploma or equivalent	None	Short-term on-the-job training							Arts, Audio/Video Technology & Communications	
Medical and Clinical Laboratory Technologists and Technicians (29-2010): Technologists perform complex medical laboratory tests for diagnosis, treatment, and prevention of disease. May train or supervise staff. Technicians perform routine medical laboratory tests for diagnosing, treating, and preventing disease, and may work under a technologist.	919	972	26	34	65	↗	\$20.37 \$30.90	Bachelor's degree	None	None	★	★	★	I	R	C	Health Science	
Medical and Health Services Managers (11-9111): Plan, direct, or coordinate medical and health services in hospitals, clinics, managed care organizations, public health agencies, or similar organizations.	2,003	2,339	53	119	206	↑	\$35.03 \$49.30	Bachelor's degree	Less than 5 years	None	★	★	★	E	C	S	Health Science	

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	2018	2028	Exits	Transfers	Total												
Medical Appliance Technicians (51-9082): Construct, fit, maintain, or repair medical supportive devices such as braces, orthotics and prosthetic devices, joints, arch supports, and other surgical and medical appliances.	36	41	2	3	5	↘	\$14.64 \$19.45	High school diploma or equivalent	None	Moderate-term on-the-job training	★	★		R	I	S	Health Science
Medical Assistants (31-9092): Perform administrative and clinical duties as directed by a physician. Duties may include scheduling appointments, maintaining medical records, billing, coding for insurance, taking vital signs and medical histories, preparing patients for exam, or drawing blood.	2,577	3,128	111	203	369	↑	\$15.43 \$17.90	Postsecondary non-degree award	None	None	★	★		S	C	R	Health Science
Medical Equipment Preparers (31-9093): Prepare, sterilize, install, or clean laboratory or healthcare equipment. May perform routine laboratory tasks and operate or inspect equipment.	301	318	15	20	37	↗	\$14.23 \$17.82	High school diploma or equivalent	None	Moderate-term on-the-job training	★	★		R	C	I	Health Science
Medical Equipment Repairers (49-9062): Test, adjust, or repair biomedical or electromedical equipment.	141	144	6	9	15	↘	\$18.83 \$26.38	Associate's degree	None	Moderate-term on-the-job training	★	★		R	I	C	Manufacturing
Medical Records and Health Information Technicians (29-2071): Compile, process, and maintain medical records of hospital and clinic patients according to medical, administrative, ethical, legal, and regulatory requirements of the health care system.	859	950	27	31	67	↑	\$17.14 \$27.03	Postsecondary non-degree award	None	None	★	★		C	E		Health Science
Medical Scientists, Except Epidemiologists (19-1042): Conduct research dealing with the understanding of human diseases and the improvement of human health. Engage in clinical investigation, research and development, or other related activities.	387	437	6	31	42	↑	\$28.17 \$38.02	Doctoral or professional degree	None	None		★		I	R	A	Health Science
Medical Secretaries (43-6013): Perform secretarial duties using specific knowledge of medical terminology and hospital, clinic, or laboratory procedures. May schedule appointments, bill patients, and compile and record medical charts, reports, and correspondence.	3,089	3,609	172	203	427	↑	\$15.56 \$18.61	High school diploma or equivalent	None	Moderate-term on-the-job training	★			C	S		Health Science
Medical Transcriptionists (31-9094): Transcribe medical reports recorded by physicians and other practitioners, covering office visits, emergency room visits, diagnostic imaging studies, operations, chart reviews, and final summaries. Transcribe dictated reports and translate abbreviations.	201	187	12	15	26	↗	\$11.67 \$17.04	Postsecondary non-degree award	None	None	★			C	R		Health Science
Meeting, Convention, and Event Planners (13-1121): Coordinate activities of staff, convention personnel, or clients to make arrangements for group meetings, events, or conventions.	581	626	19	49	72	↗	\$15.59 \$22.71	Bachelor's degree	None	None				E	C	S	Hospitality & Tourism

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	Employment		Avg. Annual Openings					Education	Experience	Training				1 st	2 nd	3 rd		
	2018	2028	Exits	Transfers	Total													
Mental Health and Substance Abuse Social Workers (21-1023): Assess and treat individuals with mental, emotional, or substance abuse problems, including alcohol, tobacco, and/or other drugs. Provide therapy, crisis intervention, case management, client advocacy, prevention, or education.	280	350	9	21	37	↑	\$19.95 \$27.10	Master's degree	None	Internship or Residency			★	★	S	I	A	Human Services
Merchandise Displayers and Window Trimmers (27-1026): Plan and erect commercial displays, such as those in windows and interiors of retail stores and at trade exhibitions.	554	583	18	38	59	↗	\$12.60 \$14.94	High school diploma or equivalent	None	Short-term on-the-job training	★				A	E	R	Marketing
Metal Workers and Plastic Workers, All Other (51-4199): All metal workers and plastic workers not listed separately.	373	337	12	25	33	↗	\$13.08 \$15.61	High school diploma or equivalent	None	Moderate-term on-the-job training	★							Manufacturing
Metal-Refining Furnace Operators and Tenders (51-4051): Operate or tend furnaces, such as gas, oil, coal, electric-arc or electric induction, open-heat, or oxygen furnaces, to melt and refine metal before casting or to produce specified types of steel.	78	74	3	6	9	↓	\$15.06 \$21.35	High school diploma or equivalent	None	Moderate-term on-the-job training	★				R	I	C	Manufacturing
Meter Readers, Utilities (43-5041): Read meter and record consumption of electricity, gas, water, or steam.	86	76	3	4	6	↓	\$16.13 \$23.49	High school diploma or equivalent	None	Short-term on-the-job training					C	R		Business Management & Administration
Microbiologists (19-1022): Investigate the growth, structure, development, and other characteristics of microscopic organisms such as bacteria, algae, or fungi. Includes medical microbiologists who study the relationship between organisms and disease or the effects of antibiotics on microorganisms.	120	127	2	9	12	↘	\$23.85 \$32.89	Bachelor's degree	None	None		★			I	R		Science, Technology, Engineering & Mathematics
Middle School Teachers, Except Special and Career/Technical Education (25-2022): Teach students in one or more subjects in public or private schools at the middle, intermediate, or junior high level, which falls between elementary and senior high school.	3,059	3,076	95	131	228	↗	\$42,965 \$60,067	Bachelor's degree	None	None				★	S	A		Education & Training
Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic (51-4035): Set up, operate, or tend milling or planing machines to mill, plane, shape, groove, or profile metal or plastic work pieces.	141	119	4	9	11	↓	\$13.50 \$15.29	High school diploma or equivalent	None	Moderate-term on-the-job training	★				R	C		Manufacturing
Millwrights (49-9044): Install, dismantle, or move machinery and heavy equipment according to layout plans, blueprints, or other drawings.	114	124	3	7	11	↘	\$19.18 \$25.04	High school diploma or equivalent	None	Apprenticeship	★				R	C	I	Architecture & Construction

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	Employment		Avg. Annual Openings						2018	2028	Experience				Training	1 st	2 nd		3 rd
	2018	2028	Exits	Transfers	Total														
Mine Cutting and Channeling Machine Operators (47-5042): Operate machinery such as longwall shears, plows, and cutting machines to cut or channel along the face or seams of coal mines, stone quarries, or other mining surfaces to facilitate blasting, separating, or removing minerals or materials from mines or from the Earth's surface. Includes shale planers.	n	n	n	n	n	↓	NA NA	High school diploma or equivalent	None	Moderate-term on-the-job training	★			R			Agriculture, Food & Natural Resources		
Mining and Geological Engineers, Including Mining Safety Engineers (17-2151): Conduct sub-surface surveys to identify characteristics of potential land or mining development sites. May inspect for unsafe conditions or specify equipment for safe, economical, and environmentally sound extraction.	n	n	n	n	n	↓	NP NP	Bachelor's degree	None	None	★		★	I	R	E	Science, Technology, Engineering & Mathematics		
Miscellaneous Construction and Related Workers (47-4090): All construction and related workers not listed separately, including Segmental Pavers (47-4091).	115	123	4	11	16	↘	\$18.23 \$24.10	High school diploma or equivalent	None	Moderate-term on-the-job training	★	★		R	C		Architecture & Construction		
Miscellaneous Mathematical Science Occupations (15-2090): All mathematical scientists not listed separately, including Mathematical Technicians (15-2091).	n	n	n	n	n	↘	\$36.94 \$52.81	Bachelor's degree	None	None			★	I	R	C	Science, Technology, Engineering & Mathematics		
Mixing and Blending Machine Setters, Operators, and Tenders (51-9023): Set up, operate, or tend machines to mix or blend materials such as chemicals, tobacco, liquids, color pigments, or explosive ingredients.	409	442	13	37	53	↗	\$15.53 \$20.19	High school diploma or equivalent	None	Moderate-term on-the-job training	★			R	C	I	Manufacturing		
Mobile Heavy Equipment Mechanics, Except Engines (49-3042): Diagnose, adjust, repair, or overhaul mobile mechanical, hydraulic, and pneumatic equipment, such as cranes, bulldozers, graders, and conveyors, used in construction, logging, and surface mining.	575	589	18	40	59	↗	\$18.72 \$24.56	High school diploma or equivalent	None	Long-term on-the-job training	★	★		R	C		Transportation, Distribution & Logistics		
Model Makers, Metal and Plastic (51-4061): Set up and operate machines such as lathes, milling and engraving machines, and jig borers to make working models of metal or plastic objects. Includes template makers.	28	29	1	2	3	↓	\$19.88 \$32.42	High school diploma or equivalent	None	Moderate-term on-the-job training	★			R	I	C	Manufacturing		
Models (41-9012): Model garments or other apparel and accessories for prospective buyers at fashion shows, private showings, or retail establishments. May pose for photos to be used in magazines or advertisements. May pose as subject for paintings, sculptures, and other types of artistic expression.	n	n	n	n	n	↘	NP NP	No formal educational credential	None	None				A	E	R	Marketing		
Molders, Shapers, and Casters, Except Metal and Plastic (51-9195): Mold, shape, form, cast, or carve products such as food products, figurines, tile, pipes, and candles consisting of clay, glass, plaster, concrete, stone, or combinations of materials.	255	271	10	19	31	↗	\$12.81 \$17.11	High school diploma or equivalent	None	Long-term on-the-job training	★			R	A	C	Manufacturing		

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	2018	2028	Exits	Transfers	Total													
Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic (51-4072): Set up, operate, or tend metal or plastic molding, casting, or coremaking machines to mold or cast metal or thermoplastic parts or products.	1,028	933	30	77	97	↗	\$12.57 \$16.28	High school diploma or equivalent	None	Moderate-term on-the-job training	★			R	C	I	Manufacturing	
Morticians, Undertakers and Funeral Directors (39-4031): Perform various tasks to arrange and direct funeral services, such as interviewing family to arrange details, selecting pallbearers, aiding with the selection of officials for religious rites, and providing transportation for mourners.	132	136	7	9	16	↘	\$21.82 \$34.96	Associate's degree	None	Long-term on-the-job training		★	★	E	S	C	Human Services	
Motion Picture Projectionists (39-3021): Set up and operate motion picture projection and related sound reproduction equipment.	n	n	n	n	n	↓	NP NP	No formal educational credential	None	Short-term on-the-job training				R	C		Hospitality & Tourism	
Motor Vehicle Operators, All Other (53-3099): All motor vehicle operators not listed separately.	121	133	13	8	22	↘	\$15.04 \$19.37	No formal educational credential	None	Short-term on-the-job training							Transportation, Distribution & Logistics	
Motorboat Mechanics and Service Technicians (49-3051): Repair and adjust electrical and mechanical equipment of inboard or inboard-outboard boat engines.	218	237	9	14	25	↗	\$16.63 \$19.45	High school diploma or equivalent	None	Long-term on-the-job training	★	★		R	C	I	Transportation, Distribution & Logistics	
Motorboat Operators (53-5022): Operate small motor-driven boats. May assist in navigational activities.	n	n	n	n	n	↓	NP NP	Postsecondary non-degree award	Less than 5 years	None		★		R	C	E	Transportation, Distribution & Logistics	
Motorcycle Mechanics (49-3052): Diagnose, adjust, repair, or overhaul motorcycles, scooters, mopeds, dirt bikes, or similar motorized vehicles.	147	162	6	9	17	↗	\$15.89 \$21.53	Postsecondary non-degree award	None	Short-term on-the-job training	★			R			Transportation, Distribution & Logistics	
Multimedia Artists and Animators (27-1014): Create special effects, animation, or other visual images using film, video, computers, or other electronic tools and media for use in products or creations, such as computer games, movies, music videos, and commercials.	31	34	2	2	4	↘	\$22.33 \$30.24	Bachelor's degree	None	None		★		A	I		Arts, Audio/Video Technology & Communications	
Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic (51-4081): Set up, operate, or tend more than one type of cutting or forming machine tool or robot.	748	761	26	53	80	↗	\$14.17 \$18.35	High school diploma or equivalent	None	Moderate-term on-the-job training	★			R			Manufacturing	

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	Employment		Avg. Annual Openings					Education	Experience	Training				1 st	2 nd	3 rd	
	2018	2028	Exits	Transfers	Total												
Museum Technicians and Conservators (25-4013): Restore, maintain, or prepare objects in museum collections for storage, research, or exhibit. May work with specimens such as fossils, skeletal parts, or botanicals, or artifacts, textiles, or art. May identify and record objects or arrange exhibits.	n	n	n	n	n	↘	NP NP	Bachelor's degree	None	None			R	A		Education & Training	
Music Directors and Composers (27-2041): Conduct, direct, plan, and lead instrumental or vocal performances by musical groups, such as orchestras, bands, choirs, and glee clubs. Includes arrangers, composers, choral directors, and orchestrators.	191	205	11	12	24	↗	\$9.77 \$24.57	Bachelor's degree	Less than 5 years	None	★		A	E	S	Arts, Audio/Video Technology & Communications	
Musical Instrument Repairers and Tuners (49-9063): Repair percussion, stringed, reed, or wind instruments. May specialize in one area, such as piano tuning.	n	n	n	n	n	↘	NP NP	High school diploma or equivalent	None	Apprenticeship	★	★	R	A	I	Manufacturing	
Musicians and Singers (27-2042): Play one or more musical instruments or sing. May perform on stage, for on-air broadcasting, or for sound or video recording.	415	439	24	26	52	↗	NP NP	No formal educational credential	None	Long-term on-the-job training	★	★	A	E		Arts, Audio/Video Technology & Communications	
Natural Sciences Managers (11-9121): Plan, direct, or coordinate activities in such fields as life sciences, physical sciences, mathematics, statistics, and research and development in these fields.	185	205	4	13	19	↗	NP NP	Bachelor's degree	5 years or more	None		★	E	I		Science, Technology, Engineering & Mathematics	
Network and Computer Systems Administrators (15-1142): Install, configure, and support an organization's local area network (LAN), wide area network (WAN), or Internet systems. May monitor network or web site to ensure correct operation, perform maintenance, or enact security measures.	2,414	2,540	42	131	186	↗	\$30.64 \$41.40	Bachelor's degree	None	None	★	★	I	R	C	Information Technology	
New Accounts Clerks (43-4141): Interview persons desiring to open accounts in financial institutions. Explain account services available to prospective customers and assist them in preparing applications.	558	516	23	40	59	↗	\$13.59 \$17.34	High school diploma or equivalent	None	Moderate-term on-the-job training			C	E	S	Finance	
Nonfarm Animal Caretakers (39-2021): Feed, water, groom, bathe, exercise, or care for pets and other nonfarm animals such as dogs, cats, ornamental fish or birds, zoo animals, and mice. Work in kennels, animal shelters, zoos, circuses, or aquariums. May clean, disinfect, or repair cages or tanks.	1,502	1,787	114	152	294	↑	\$9.50 \$11.56	High school diploma or equivalent	None	Short-term on-the-job training	★		R	C		Agriculture, Food & Natural Resources	
Nuclear Engineers (17-2161): Conduct research on nuclear engineering projects or apply principles and theory of nuclear science to problems concerned with release, control, and use of nuclear energy and nuclear waste disposal.	n	n	n	n	n	↓	NP NP	Bachelor's degree	None	None		★	★	I	R	C	Science, Technology, Engineering & Mathematics

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	2018	2028	Exits	Transfers													
Nuclear Medicine Technologists (29-2033): Prepare, administer, and measure radioactive isotopes in therapeutic, diagnostic, and tracer studies using a variety of radioisotope equipment. Prepare stock solutions of radioactive materials and calculate doses to be administered by radiologists.	58	61	2	2	4	↓	\$33.34 \$40.67	Associate's degree	None	None		★	★	I	R	S	Health Science
Nuclear Power Reactor Operators (51-8011): Operate or control nuclear reactors. Move control rods, start and stop equipment, monitor and adjust controls, and record data in logs. Implement emergency procedures as needed. Respond to abnormalities, determine cause, and recommend corrective action.	n	n	n	n	n	↓	NP NP	High school diploma or equivalent	None	Long-term on-the-job training		★		R	C	E	Architecture & Construction
Nuclear Technicians (19-4051): Assist nuclear physicists, nuclear engineers, or other scientists in laboratory or production activities. May operate, maintain, or provide quality control for nuclear testing and research equipment. May monitor radiation.	n	n	n	n	n	↘	NP NP	Associate's degree	None	Moderate-term on-the-job training	★	★		R	C	I	Manufacturing
Nurse Anesthetists (29-1151): Administer anesthesia, monitor patient's vital signs, and oversee patient recovery from anesthesia. May assist anesthesiologists, surgeons, other physicians, or dentists. Must be registered nurses who have specialized graduate education.	226	265	4	8	16	↗	\$74.62 \$88.77	Master's degree	None	None		★	★	I	R	S	Health Science
Nurse Midwives (29-1161): Diagnose and coordinate all aspects of the birthing process, either independently or as part of a healthcare team. May provide well-woman gynecological care. Must have specialized, graduate nursing education.	63	75	1	2	4	↘	\$42.18 \$51.05	Master's degree	None	None		★	★	S	I		Health Science
Nurse Practitioners (29-1171): Diagnose and treat acute, episodic, or chronic illness, independently or as part of a healthcare team. May focus on health promotion and disease prevention. May order, perform, or interpret diagnostic tests such as lab work and x-rays. May prescribe medication.	1,170	1,520	26	45	106	↑	\$41.44 \$53.42	Master's degree	None	None		★	★	S	I	R	Health Science
Nursing Assistants (31-1014): Provide basic patient care under direction of nursing staff. Perform duties such as feed, bathe, dress, groom, or move patients, or change linens. May transfer or transport patients. Includes nursing care attendants, nursing aides, and nursing attendants.	8,207	8,856	459	498	1,022	↑	\$13.38 \$15.79	Postsecondary non-degree award	None	None	★		★	S	C	R	Health Science
Nursing Instructors and Teachers, Postsecondary (25-1072): Demonstrate and teach patient care in classroom and clinical units to nursing students. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	268	323	11	14	31	↑	\$49,470 \$67,300	Doctoral or professional degree	Less than 5 years	None				S	I		Education & Training
Obstetricians and Gynecologists (29-1064): Physicians who provide medical care related to pregnancy or childbirth and those who diagnose, treat, and help prevent diseases of women, particularly those affecting the reproductive system. May also provide general medical care to women.	87	89	1	1	2	↓	# #	Doctoral or professional degree	None	Internship or Residency		★	★	I	S	R	Health Science

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	2018	2028	Exits	Transfers	Total												
Occupational Health and Safety Specialists (29-9011): Review, evaluate, and analyze work environments and design procedures to control, eliminate, and prevent disease or injury caused by chemical, physical, and biological agents or ergonomic factors.	449	489	11	16	31	↗	\$24.48 \$36.71	Bachelor's degree	None	None	★	★	★	I	C	Government & Public Administration	
Occupational Health and Safety Technicians (29-9012): Collect data on work environments for analysis by occupational health and safety specialists. Implement and conduct evaluation of programs designed to limit chemical, physical, biological, and ergonomic risks to workers.	n	n	n	n	n	↘	\$19.58 \$23.07	High school diploma or equivalent	None	Moderate-term on-the-job training	★	★	★	C	R	Government & Public Administration	
Occupational Therapists (29-1122): Assess, plan, organize, and participate in rehabilitative programs that help build or restore vocational, homemaking, and daily living skills, as well as general independence, to persons with disabilities or developmental delays.	915	1,057	22	33	69	↑	\$31.13 \$39.20	Master's degree	None	None		★	★	S	I	Health Science	
Occupational Therapy Aides (31-2012): Under close supervision of an occupational therapist or occupational therapy assistant, perform only delegated, selected, or routine tasks in specific situations. These duties include preparing patient and treatment room.	n	n	n	n	n	↘	NP NP	High school diploma or equivalent	None	Short-term on-the-job training			★	S	R	Health Science	
Occupational Therapy Assistants (31-2011): Assist occupational therapists in providing occupational therapy treatments and procedures. May assist in developing treatment plans, carry out routine functions, direct activity programs, and document the progress of treatments.	192	237	9	14	27	↑	\$23.26 \$27.91	Associate's degree	None	None		★	★	S	R	Health Science	
Office and Administrative Support Workers, All Other (43-9199): All office and administrative support workers not listed separately.	361	384	16	28	46	↗	\$8.60 \$11.09	High school diploma or equivalent	None	Short-term on-the-job training		★				Business Management & Administration	
Office Clerks, General (43-9061): Perform duties too varied to be classified in a specific occupation, requiring knowledge of office systems and procedures. Duties may include answering telephones, bookkeeping, typing or word processing, stenography, office machine operation, and filing.	16,109	15,793	892	1,018	1,878	↗	\$13.41 \$18.42	High school diploma or equivalent	None	Short-term on-the-job training	★	★		C	E	R	Business Management & Administration
Office Machine Operators, Except Computer (43-9071): Operate one or more of a variety of office machines, such as photocopying, photographic, and duplicating machines, or other office machines.	405	364	23	26	45	↗	\$10.66 \$15.03	High school diploma or equivalent	None	Short-term on-the-job training				R	C	Business Management & Administration	
Operating Engineers and Other Construction Equipment Operators (47-2073): Operate construction equipment, such as graders, bulldozers, scrapers, compressors, pumps, derricks, shovels, tractors, or front-end loaders to excavate, move, and grade earth, erect structures, or pour concrete.	899	985	32	77	118	↑	\$18.77 \$24.44	High school diploma or equivalent	None	Moderate-term on-the-job training	★	★		R	C	I	Architecture & Construction

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	2018	2028	Exits	Transfers	Total												
Operations Research Analysts (15-2031): Formulate and apply mathematical modeling and other optimizing methods to develop and interpret information that assists management with decision making, policy formulation, or other managerial functions.	591	766	16	28	62	↑	\$29.60 \$45.50	Bachelor's degree	None	None	★		I	C	E	Business Management & Administration	
Ophthalmic Laboratory Technicians (51-9083): Cut, grind, and polish eyeglasses, contact lenses, or other precision optical elements. Assemble and mount lenses into frames or process other optical elements. Includes precision lens polishers or grinders, centerer-edgers, and lens mounters.	87	96	4	7	12	↗	\$13.74 \$21.34	High school diploma or equivalent	None	Moderate-term on-the-job training	★	★	R	C		Manufacturing	
Ophthalmic Medical Technicians (29-2057): Assist ophthalmologists by performing ophthalmic clinical functions. May administer eye exams, administer eye medications, and instruct the patient in care and use of corrective lenses.	333	386	10	19	34	↑	\$15.99 \$19.60	Postsecondary non-degree award	None	None		★	C	S	R	Health Science	
Opticians, Dispensing (29-2081): Design, measure, fit, and adapt lenses and frames according to optical prescription. Assist client with inserting, removing, and caring for contact lenses, or selecting eyeglass frames. Measure customer for size, and adjust frame and lens position to fit client.	561	595	23	23	49	↗	\$15.68 \$20.33	High school diploma or equivalent	None	Long-term on-the-job training	★	★	★	E	C	R	Health Science
Optometrists (29-1041): Diagnose, manage, and treat conditions and diseases of the human eye and visual system. Examine eyes and visual system, diagnose problems or impairments, prescribe corrective lenses, and provide treatment. May prescribe therapeutic drugs to treat eye conditions.	193	208	4	2	8	↘	\$45.26 \$61.05	Doctoral or professional degree	None	None		★	★	I	S	R	Health Science
Oral and Maxillofacial Surgeons (29-1022): Perform surgery and related procedures on the hard and soft tissues of the oral and maxillofacial regions to treat diseases, injuries, or defects. May diagnose problems of the oral and maxillofacial regions. May perform surgery to improve function or appearance.	n	n	n	n	n	↓	NP NP	Doctoral or professional degree	None	Internship or Residency		★	★	R	S	I	Health Science
Order Clerks (43-4151): Receive and process orders for materials, merchandise, classified ads, or services such as repairs, installations, or rental of facilities. Take orders via mail, phone, fax, or electronic means. Inform customers of receipt, prices, ship dates, or delays, and handle complaints.	536	528	22	39	60	↗	\$12.91 \$18.24	Some college, no degree	None	Short-term on-the-job training				C	E	S	Business Management & Administration
Orderlies (31-1015): Transport patients to areas such as operating rooms or x-ray rooms using wheelchairs, stretchers, or moveable beds. May maintain stocks of supplies or clean and transport equipment.	136	142	8	8	17	↘	\$11.80 \$15.32	High school diploma or equivalent	None	Short-term on-the-job training				C	R	S	Health Science
Orthodontists (29-1023): Examine, diagnose, and treat dental malocclusions and oral cavity anomalies. Design and fabricate appliances to realign teeth and jaws to produce and maintain normal function and to improve appearance.	n	n	n	n	n	↘	NP NP	Doctoral or professional degree	None	Internship or Residency		★	★	I	R	S	Health Science

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	Employment		Avg. Annual Openings						2019 Wage Entry Level Median	Usual Education	Experience				Training	Apprentice	Military		NH License	1 st	2 nd	3 rd
	2018	2028	Exits	Transfers	Total																	
Orthotists and Prosthetists (29-2091): Design, measure, fit, and adapt orthopedic braces, appliances or prostheses such as limbs or facial parts for patients with disabling conditions.	35	42	1	2	4	↘	\$24.18 \$42.05	Master's degree	None	Internship or Residency	★	★		S	R	I	Health Science					
Outdoor Power Equipment and Other Small Engine Mechanics (49-3053): Diagnose, adjust, repair, or overhaul small engines used to power lawn mowers, chain saws, recreational sporting equipment and related equipment.	287	305	12	18	32	↗	\$15.43 \$19.47	High school diploma or equivalent	None	Moderate-term on-the-job training	★			R	C		Manufacturing					
Packaging and Filling Machine Operators and Tenders (51-9111): Operate or tend machines to prepare industrial or consumer products for storage or shipment. Includes cannery workers who pack food products.	1,468	1,540	66	108	181	↗	\$12.82 \$15.31	High school diploma or equivalent	None	Moderate-term on-the-job training				R	C		Manufacturing					
Packers and Packers, Hand (53-7064): Pack or package by hand a wide variety of products and materials.	4,119	3,662	233	328	515	↗	\$10.57 \$11.41	No formal educational credential	None	Short-term on-the-job training				R	C		Manufacturing					
Painters, Construction and Maintenance (47-2141): Paint walls, equipment, buildings, bridges, and other structural surfaces using brushes, rollers, and spray guns. May remove old paint to prepare surface prior to painting. May mix colors or oils to obtain desired color or consistency.	1,211	1,287	43	83	134	↑	\$15.29 \$19.19	No formal educational credential	None	Moderate-term on-the-job training	★			R	C		Architecture & Construction					
Painters, Transportation Equipment (51-9122): Operate or tend painting machines to paint surfaces of transportation equipment such as automobiles, buses, trucks, trains, boats, and airplanes. Includes painters in auto body repair facilities.	88	96	3	7	11	↘	NA NA	High school diploma or equivalent	None	Moderate-term on-the-job training	★			R	C		Transportation, Distribution & Logistics					
Painting, Coating, and Decorating Workers (51-9123): Paint, coat, or decorate articles such as furniture, glass, plateware, pottery, jewelry, toys, books, or leather.	51	53	2	4	6	↘	\$9.16 \$15.91	No formal educational credential	None	Moderate-term on-the-job training	★			R			Manufacturing					
Paper Goods Machine Setters, Operators, and Tenders (51-9196): Set up, operate, or tend paper goods machines that perform a variety of functions, such as converting, sawing, corrugating, banding, wrapping, boxing, stitching, forming, or sealing paper or paperboard sheets into products.	111	100	3	8	10	↓	\$12.93 \$16.69	High school diploma or equivalent	None	Moderate-term on-the-job training	★			R	C		Manufacturing					
Paperhangers (47-2142): Cover interior walls or ceilings of rooms with decorative wallpaper or fabric, or attach advertising posters on surfaces such as walls and billboards. May remove old materials or prepare surfaces to be papered.	n	n	n	n	n	↓	NP NP	No formal educational credential	None	Long-term on-the-job training	★			R	C		Architecture & Construction					

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Paralegals and Legal Assistants (23-2011): Assist lawyers by investigating facts, preparing legal documents, or researching legal precedent. Conduct research to support a legal proceeding, to formulate a defense, or to initiate legal action.	1,181	1,326	42	91	147	↑	\$20.05 \$25.92	Associate's degree	None	None	★	★		C	I	E	Law, Public Safety, Corrections & Security
Parking Enforcement Workers (33-3041): Patrol assigned area, such as public parking lot or city streets, to issue tickets to overtime parking violators and illegally parked vehicles.	85	58	2	3	2	↓	\$14.04 \$17.99	High school diploma or equivalent	None	Short-term on-the-job training				R	C		Law, Public Safety, Corrections & Security
Parking Lot Attendants (53-6021): Park vehicles or issue tickets for customers in a parking lot or garage. May collect fee.	201	213	11	21	33	↗	\$9.50 \$12.16	No formal educational credential	None	Short-term on-the-job training				R	C		Transportation, Distribution & Logistics
Parts Salespersons (41-2022): Sell spare and replacement parts and equipment in repair shop or parts store.	1,392	1,387	57	110	167	↗	\$11.53 \$16.12	No formal educational credential	None	Moderate-term on-the-job training	★			E	C	R	Marketing
Patternmakers, Metal and Plastic (51-4062): Lay out, machine, fit, and assemble castings and parts to metal or plastic foundry patterns, core boxes, or match plates.	n	n	n	n	n	↓	NP NP	High school diploma or equivalent	None	Moderate-term on-the-job training	★			R	C	I	Manufacturing
Paving, Surfacing, and Tamping Equipment Operators (47-2071): Operate equipment used for applying concrete, asphalt, or other materials to road beds, parking lots, or airport runways and taxiways, or equipment used for tamping gravel, dirt, or other materials.	225	248	11	19	32	↑	\$17.64 \$21.28	High school diploma or equivalent	None	Moderate-term on-the-job training	★	★		R	C		Architecture & Construction
Payroll and Timekeeping Clerks (43-3051): Compile and record employee time and payroll data. May compute employees' time worked, production, and commission. May compute and post wages and deductions, or prepare paychecks.	770	754	36	48	82	↗	\$17.24 \$23.48	High school diploma or equivalent	None	Moderate-term on-the-job training	★	★		C	E		Finance
Pediatricians, General (29-1065): Physicians who diagnose, treat, and help prevent children's diseases and injuries.	269	273	4	4	8	↘	# #	Doctoral or professional degree	None	Internship or Residency		★	★	I	S		Health Science
Personal Care Aides (39-9021): Assist the elderly, convalescents, or persons with disabilities with daily living activities at the person's home or in a care facility. May keep house (make beds, do laundry, wash dishes) and prepare meals. May provide assistance at non-residential care facilities.	9,001	11,805	769	681	1,730	↑	\$10.88 \$12.87	High school diploma or equivalent	None	Short-term on-the-job training				S	R	C	Human Services

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	2018	2028	Exits	Transfers	Total													
Personal Care and Service Workers, All Other (39-9099): All personal care and service workers not listed separately.	80	87	5	7	13	↘	\$8.59—\$9.25	High school diploma or equivalent	None	Short-term on-the-job training		★	★				Human Services	
Personal Financial Advisors (13-2052): Advise clients on financial plans using knowledge of tax and investment strategies, securities, insurance, pension plans, and real estate. Duties include assessing clients' assets, liabilities, cash flow, insurance coverage, tax status, and financial objectives.	1,239	1,360	30	69	111	↑	\$23.48 \$32.52	Bachelor's degree	None	Long-term on-the-job training			★	E	C	S	Finance	
Pest Control Workers (37-2021): Apply or release chemical solutions or toxic gases and set traps to kill or remove pests and vermin that infest buildings and surrounding areas.	253	271	8	29	39	↗	\$16.59 \$20.00	High school diploma or equivalent	None	Moderate-term on-the-job training	★	★	★	R	C		Agriculture, Food & Natural Resources	
Pesticide Handlers, Sprayers, and Applicators, Vegetation (37-3012): Mix or apply pesticides, herbicides, fungicides, or insecticides using sprays, dusts, vapors, soil incorporation, or chemical application on trees, shrubs, lawns, or crops. Specific training and/or State certification required.	149	162	6	14	21	↘	\$15.56 \$19.53	High school diploma or equivalent	None	Moderate-term on-the-job training	★		★	R	C		Agriculture, Food & Natural Resources	
Petroleum Engineers (17-2171): Devise methods to improve oil and gas extraction and production and determine the need for new or modified tool designs. Oversee drilling and offer technical advice.	n	n	n	n	n	↓	NP NP	Bachelor's degree	None	None		★	★	I	R	C	Science, Technology, Engineering & Mathematics	
Petroleum Pump System Operators, Refinery Operators, and Gaugers (51-8093): Operate or control petroleum refining or processing units. May specialize in controlling manifold and pumping systems, gauging or testing oil in storage tanks, or regulating the flow of oil into pipelines.	n	n	n	n	n	↘	\$19.07 \$33.29	High school diploma or equivalent	None	Moderate-term on-the-job training	★	★		R	C		Architecture & Construction	
Pharmacists (29-1051): Dispense drugs prescribed by physicians and other health practitioners and provide information to patients about medications and their use. May advise physicians and other health practitioners on the selection, dosage, interactions, and side effects of medications.	1,137	1,149	27	24	52	↗	\$52.51 \$63.35	Doctoral or professional degree	None	None			★	★	I	C	S	Health Science
Pharmacy Aides (31-9095): Record drugs delivered to the pharmacy, store incoming merchandise, and inform the supervisor of stock needs. May operate cash register and accept prescriptions for filling.	n	n	n	n	n	↓	\$12.54 \$13.70	High school diploma or equivalent	None	Short-term on-the-job training				C	R		Health Science	
Pharmacy Technicians (29-2052): Prepare medications under the direction of a pharmacist. May measure, mix, count out, label, and record amounts and dosages of medications according to prescription orders.	1,722	1,927	53	94	167	↑	\$12.69 \$15.52	High school diploma or equivalent	None	Moderate-term on-the-job training	★	★	★	C	R		Health Science	

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	Employment		Avg. Annual Openings					Education	Experience	Training				1 st	2 nd	3 rd		
	2018	2028	Exits	Transfers	Total													
Philosophy and Religion Teachers, Postsecondary (25-1126): Teach courses in philosophy, religion, and theology. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	97	106	4	5	10	↘	\$45,723 \$76,272	Doctoral or professional degree	None	None				S	A	I	Education & Training	
Phlebotomists (31-9097): Draw blood for tests, transfusions, donations, or research. May explain the procedure to patients and assist in the recovery of patients with adverse reactions.	810	977	33	61	111	↑	\$15.01 \$17.84	Postsecondary non-degree award	None	None	★			C	R	I	Health Science	
Photographers (27-4021): Photograph people, landscapes, merchandise, or other subjects, using digital or film cameras and equipment. May develop negatives or use computers to produce finished images and prints. Includes scientific photographers, aerial photographers, and photojournalists.	464	405	17	26	37	↗	\$13.34 \$18.90	High school diploma or equivalent	None	Moderate-term on-the-job training	★	★		A	R		Arts, Audio/Video Technology & Communications	
Photographic Process Workers and Processing Machine Operators (51-9151): Perform work involved in developing and processing photographic images from film or digital media. May perform precision tasks such as editing photographic negatives and prints.	46	31	2	4	4	↓	\$13.10 \$14.11	High school diploma or equivalent	None	Short-term on-the-job training	★	★		C	R		Manufacturing	
Physical Scientists, All Other (19-2099): All physical scientists not listed separately. Includes Remote Sensing Scientists and Technologists.	69	70	1	5	6	↘	\$26.23 \$41.15	Bachelor's degree	None	None		★					Science, Technology, Engineering & Mathematics	
Physical Therapist Aides (31-2022): Under close supervision of a physical therapist or physical therapy assistant, perform only delegated, selected, or routine tasks in specific situations. These duties include preparing the patient and the treatment area.	158	188	7	14	24	↑	\$12.65 \$14.66	High school diploma or equivalent	None	Short-term on-the-job training	★		★	S	R		Health Science	
Physical Therapist Assistants (31-2021): Assist physical therapists in providing physical therapy treatments and procedures. May assist in the development of treatment plans, carry out routine functions, document progress, and modify treatments according to patient status.	336	418	16	30	54	↑	\$25.18 \$29.40	Associate's degree	None	None			★	★	S	R	I	Health Science
Physical Therapists (29-1123): Assess, plan, organize, and participate in rehabilitative programs that improve mobility, relieve pain, increase strength, and improve or correct disabling conditions resulting from disease or injury.	1,437	1,727	29	37	95	↑	\$33.37 \$40.80	Doctoral or professional degree	None	None			★	★	S	I	R	Health Science
Physician Assistants (29-1071): Provide healthcare services typically performed by a physician, under the supervision of a physician. Conduct physicals, provide treatment, and counsel patients. May prescribe medication. Must graduate from an accredited physician assistant educational program.	725	972	13	35	73	↑	\$44.91 \$55.92	Master's degree	None	None			★	★	S	I	R	Health Science

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	Employment		Avg. Annual Openings					Education	Experience	Training				1 st	2 nd	3 rd		
	2018	2028	Exits	Transfers	Total													
Physicians and Surgeons, All Other (29-1069): All physicians and surgeons not listed separately. Includes Dermatologists; Hospitalists; Neurologists; Ophthalmologists; Allergists and Immunologists; Pathologists; Physical Medicine and Rehabilitation Physicians; Preventive Medicine Physicians; Radiologists; Sports Medicine Physicians; and Urologists.	1,446	1,578	25	19	57	↗	# #	Doctoral or professional degree	None	Internship or Residency		★	★	I	S	R	Health Science	
Physicists (19-2112): Conduct research into physical phenomena, develop theories on the basis of observation and experiments, and devise methods to apply physical laws and theories.	108	120	2	7	10	↗	\$28.92 \$46.73	Doctoral or professional degree	None	None		★		I		R	Science, Technology, Engineering & Mathematics	
Physics Teachers, Postsecondary (25-1054): Teach courses pertaining to the laws of matter and energy. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	86	91	3	4	7	↘	\$58,547 \$93,790	Doctoral or professional degree	None	None		★		S		I	Education & Training	
Pile-Driver Operators (47-2072): Operate pile drivers mounted on skids, barges, crawler treads, or locomotive cranes to drive pilings for retaining walls, bulkheads, and foundations of structures, such as buildings, bridges, and piers.	n	n	n	n	n	↓	NP NP	High school diploma or equivalent	None	Moderate-term on-the-job training				R		C	I	Architecture & Construction
Pipelayers (47-2151): Lay pipe for storm or sanitation sewers, drains, and water mains. Perform any combination of the following tasks: grade trenches or culverts, position pipe, or seal joints.	127	139	4	11	16	↘	\$19.24 \$23.55	No formal educational credential	None	Short-term on-the-job training		★		R			Architecture & Construction	
Plant and System Operators, All Other (51-8099): All plant and system operators not listed separately. Includes Biofuels Processing Technicians; Methane/Landfill Gas Generation System Technicians; Biomass Plant Technicians; and Hydroelectric Plant Technicians.	n	n	n	n	n	↘	\$25.27 \$27.49	High school diploma or equivalent	None	Moderate-term on-the-job training		★	★				Architecture & Construction	
Plasterers and Stucco Masons (47-2161): Apply interior or exterior plaster, cement, stucco, or similar materials. May also set ornamental plaster.	n	n	n	n	n	↓	\$13.33 \$22.85	No formal educational credential	None	Long-term on-the-job training	★			R			Architecture & Construction	
Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic (51-4193): Set up, operate, or tend machines to coat metal or plastic products with chromium, zinc, copper, cadmium, nickel, or other metal to protect or decorate surfaces. Includes electrolytic processes.	117	103	3	8	10	↓	\$14.32 \$17.74	High school diploma or equivalent	None	Moderate-term on-the-job training	★			R		C	Manufacturing	
Plumbers, Pipefitters, and Steamfitters (47-2152): Assemble, install, alter, and repair pipelines or pipe systems that carry water, steam, air, or other liquids or gases. May install heating and cooling equipment and mechanical control systems. Includes sprinklerfitters.	1,787	2,031	56	156	236	↗	\$19.04 \$25.55	High school diploma or equivalent	None	Apprenticeship	★	★	★	R		C	I	Architecture & Construction

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	Employment		Avg. Annual Openings					Education	Experience	Training				1 st	2 nd	3 rd	
	2018	2028	Exits	Transfers	Total												
Podiatrists (29-1081): Diagnose and treat diseases and deformities of the human foot.	n	n	n	n	n	↓	\$43.52 \$78.44	Doctoral or professional degree	None	Internship or Residency		★	★	I	S	R	Health Science
Police and Sheriffs Patrol Officers (33-3051): Maintain order and protect life and property by enforcing local, tribal, State, or Federal laws and ordinances. Patrol a specific area; direct traffic; issue traffic summonses; investigate accidents; apprehend and arrest suspects, or serve legal processes of courts.	3,185	3,351	78	151	246	↗	\$21.39 \$27.97	High school diploma or equivalent	None	Moderate-term on-the-job training	★	★	★	E	R	S	Law, Public Safety, Corrections & Security
Police, Fire, and Ambulance Dispatchers (43-5031): Operate radio, telephone, or computer equipment at emergency response centers. Receive reports of crimes, disturbances, fires, and medical or police emergencies. Relay information to law enforcement and emergency response personnel.	702	739	25	43	72	↗	\$17.65 \$22.20	High school diploma or equivalent	None	Moderate-term on-the-job training	★			C	R	E	Law, Public Safety, Corrections & Security
Political Science Teachers, Postsecondary (25-1065): Teach courses in political science, international affairs, and international relations. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	89	95	3	4	8	↘	\$59,584 \$95,704	Doctoral or professional degree	None	None				S	E	A	Education & Training
Political Scientists (19-3094): Study the origin, development, and operation of political systems. May study topics, such as public opinion, political decision-making, and ideology. May analyze the structure and operation of governments or various political entities. May conduct public opinion surveys, or analyze election results or public documents.	n	n	n	n	n	↓	\$34.10 \$39.38	Master's degree	None	None		★		I	A	S	Science, Technology, Engineering & Mathematics
Postal Service Clerks (43-5051): Perform a combination of tasks in a post office, such as receive letters and parcels; sell postage and stamps, post cards, and stamped envelopes; fill out and sell money orders; place mail in pigeon holes of mail rack or in bags; and examine mail for correct postage.	536	486	21	18	34	↗	\$18.77 \$22.72	High school diploma or equivalent	None	Short-term on-the-job training	★	★		C	R		Government & Public Administration
Postal Service Mail Carriers (43-5052): Sort mail for delivery. Deliver mail on established route by vehicle or on foot.	1,546	1,399	54	56	95	↗	\$17.96 \$23.24	High school diploma or equivalent	None	Short-term on-the-job training				C	R		Government & Public Administration
Postal Service Mail Sorters, Processors, and Processing Machine Operators (43-5053): Prepare outgoing and incoming mail for distribution. Examine, sort, and route mail. Load, operate, and adjust or repair mail sorting, processing, or cancelling machinery. Keep records of shipments, pouches, and sacks.	626	538	27	21	39	↗	\$16.99 \$28.91	High school diploma or equivalent	None	Short-term on-the-job training				C	R		Government & Public Administration
Postmasters and Mail Superintendents (11-9131): Plan, direct, or coordinate operational, administrative, management, and supportive services of a U.S. post office; or coordinate activities of workers engaged in postal and related work in assigned post office.	155	126	4	7	8	↓	\$30.58 \$34.30	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training		★		E	C	S	Government & Public Administration

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	Employment		Avg. Annual Openings					Education	Experience	Training				1 st	2 nd	3 rd	
	2018	2028	Exits	Transfers	Total												
Postsecondary Teachers, All Other (25-1199): All postsecondary teachers not listed separately.	167	172	6	8	14	↘	\$35,418 \$75,352	Doctoral or professional degree	None	None	★					Education & Training	
Pourers and Casters, Metal (51-4052): Operate hand-controlled mechanisms to pour and regulate the flow of molten metal into molds to produce castings or ingots.	29	25	1	2	3	↓	\$14.20 \$17.13	High school diploma or equivalent	None	Moderate-term on-the-job training				R	C	Manufacturing	
Power Distributors and Dispatchers (51-8012): Coordinate, regulate, or distribute electricity or steam.	60	61	1	4	5	↓	NP NP	High school diploma or equivalent	None	Long-term on-the-job training	★			R	I	C	Architecture & Construction
Power Plant Operators (51-8013): Control, operate, or maintain machinery to generate electric power. Includes auxiliary equipment operators.	143	136	3	10	12	↓	\$19.01 \$28.31	High school diploma or equivalent	None	Long-term on-the-job training	★	★		R	C	Architecture & Construction	
Precision Instrument and Equipment Repairers, All Other (49-9069): All precision instrument and equipment repairers not listed separately.	75	81	3	5	9	↘	\$21.31 \$30.47	High school diploma or equivalent	None	Long-term on-the-job training		★	★			Manufacturing	
Prepress Technician and Workers (51-5111): Format and proof text and images submitted by designers and clients into finished pages that can be printed. Includes digital and photo typesetting. May produce printing plates.	115	96	4	9	11	↓	\$15.97 \$21.40	Postsecondary non-degree award	None	None	★	★		R	C	Arts, Audio/Video Technology & Communications	
Preschool Teachers, Except Special Education (25-2011): Instruct preschool-aged children in activities designed to promote social, physical, and intellectual growth needed for primary school in preschool, day care center, or other child development facility. May be required to hold State certification.	3,218	3,453	132	203	359	↑	\$12.12 \$14.43	Associate's degree	None	None				S	A	Education & Training	
Pressers, Textile, Garment, and Related Materials (51-6021): Press or shape articles by hand or machine.	146	116	7	8	12	↓	\$9.58 \$11.34	No formal educational credential	None	Short-term on-the-job training				R	C	Human Services	
Print Binding and Finishing Workers (51-5113): Bind books and other publications or finish printed products by hand or machine. May set up binding and finishing machines.	267	256	17	19	35	↗	\$12.12 \$15.76	High school diploma or equivalent	None	Moderate-term on-the-job training	★			R	C	Arts, Audio/Video Technology & Communications	

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	Employment		Avg. Annual Openings					Education	Experience	Training				1 st	2 nd	3 rd	
	2018	2028	Exits	Transfers	Total												
Printing Press Operators (51-5112): Set up and operate digital, letterpress, lithographic, flexographic, gravure, or other printing machines. Includes short-run offset printing presses.	866	848	33	60	91	↗	\$13.71 \$19.38	High school diploma or equivalent	None	Moderate-term on-the-job training	★	★		R	C	Arts, Audio/Video Technology & Communications	
Private Detectives and Investigators (33-9021): Gather, analyze, compile and report information regarding individuals or organizations to clients, or detect occurrences of unlawful acts or infractions of rules in private establishment.	175	189	6	10	17	↘	\$16.78 \$24.89	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training	★		★	E	C	Law, Public Safety, Corrections & Security	
Probation Officers and Correctional Treatment Specialists (21-1092): Provide social services to assist in rehabilitation of law offenders in custody or on probation or parole. Recommend rehabilitation plan and treatment of offender, including conditional release, education, or employment stipulations.	235	240	5	15	20	↘	\$25.34 \$31.79	Bachelor's degree	None	Short-term on-the-job training			★	S	E	C	Law, Public Safety, Corrections & Security
Procurement Clerks (43-3061): Compile information and records to draw up purchase orders for procurement of materials and services.	340	322	11	23	32	↗	\$15.00 \$18.66	High school diploma or equivalent	None	Moderate-term on-the-job training			★	C	E	Business Management & Administration	
Producers and Directors (27-2012): Produce or direct stage, television, radio, video, or motion picture productions for entertainment, information, or instruction. Make creative decisions such as choice of actors or guests, interpretation of script, set design, sound, special effects, and choreography.	227	228	5	17	22	↘	\$18.06 \$28.21	Bachelor's degree	Less than 5 years	None	★	★		E	A	C	Arts, Audio/Video Technology & Communications
Production Workers, All Other (51-9199): All production workers not listed separately. Includes Recycling and Reclamation Workers.	1,240	1,276	47	98	149	↗	\$13.92 \$17.29	High school diploma or equivalent	None	Moderate-term on-the-job training	★	★					Manufacturing
Production, Planning, and Expediting Clerks (43-5061): Coordinate and expedite the flow of work and materials within an establishment according to production schedule. Review and distribute schedules; confer with supervisors; and compile reports on progress, inventory, costs, or problems.	1,636	1,704	55	119	181	↗	\$17.72 \$24.55	High school diploma or equivalent	None	Moderate-term on-the-job training	★	★		C	E		Manufacturing
Proofreaders and Copy Markers (43-9081): Read transcript or proof type setup to detect and mark for correction any grammatical, typographical, or compositional errors. Excludes workers whose primary duty is editing copy. Includes proofreaders of Braille.	44	42	3	3	6	↓	\$10.98 \$18.24	Bachelor's degree	None	None				C	A		Arts, Audio/Video Technology & Communications
Property, Real Estate, and Community Association Managers (11-9141): Plan, direct, or coordinate the selling, buying, leasing, or governance activities of commercial, industrial, or residential real estate properties. Manage homeowner or condo associations, rented or leased housing, or rights-of-way.	1,077	1,176	42	45	97	↑	\$20.28 \$29.28	High school diploma or equivalent	Less than 5 years	None	★			E	C		Marketing

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	2018	2028	Exits	Transfers	Total												
Prosthodontists (29-1024): Construct oral prostheses to replace missing teeth and other oral structures to correct natural and acquired deformation of mouth and jaws, to restore and maintain oral function, such as chewing and speaking, and to improve appearance.	n	n	n	n	n	↓	NP NP	Doctoral or professional degree	None	Internship or Residency		★	★	I	R	Health Science	
Protective Service Workers, All Other (33-9099): All protective service workers not listed separately. Includes Retail Loss Prevention Specialists.	142	148	19	16	36	↗	\$10.15 \$12.76	High school diploma or equivalent	None	Short-term on-the-job training		★				Law, Public Safety, Corrections & Security	
Psychiatric Aides (31-1013): Assist mentally impaired or emotionally disturbed patients, working under direction of nursing and medical staff. May assist with daily living activities, lead patients in educational and recreational activities, or accompany patients to and from exams and treatments.	352	384	20	22	45	↗	\$15.99 \$18.43	High school diploma or equivalent	None	Short-term on-the-job training		★		S	R	C	Health Science
Psychiatric Technicians (29-2053): Care for individuals with mental or emotional conditions or disabilities, per instructions of physician or health practitioner. Monitor patients' physical and emotional well-being. May assist in treatment, help with personal hygiene, or administer medication.	n	n	n	n	n	↘	NP NP	Postsecondary non-degree award	Less than 5 years	Short-term on-the-job training	★	★		S	E	R	Health Science
Psychiatrists (29-1066): Physicians who diagnose, treat, and help prevent disorders of the mind.	64	76	1	1	3	↘	# #	Doctoral or professional degree	None	Internship or Residency		★	★	I	S	A	Health Science
Psychologists, All Other (19-3039): All psychologists not listed separately. Includes Neuropsychologists and Clinical Neuropsychologists.	36	41	1	2	3	↘	\$29.37 \$50.98	Master's degree	None	Internship or Residency		★				Human Services	
Psychology Teachers, Postsecondary (25-1066): Teach courses in psychology, such as child, clinical, and developmental psychology, and psychological counseling. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	292	329	11	14	29	↑	\$47,540 \$72,730	Doctoral or professional degree	None	None		★		S	I	A	Education & Training
Public Address System and Other Announcers (27-3012): Make announcements over public address system at sporting or other public events. May act as master of ceremonies or disc jockey at weddings, parties, clubs, or other gathering places.	n	n	n	n	n	↘	\$9.67 \$14.38	High school diploma or equivalent	None	Short-term on-the-job training				S	E	A	Arts, Audio/Video Technology & Communications
Public Relations and Fundraising Managers (11-2031): Plan, direct, or coordinate activities designed to create or maintain a favorable public image or raise issue awareness for an organization or client; or plan, direct, or coordinate activities to solicit and maintain funds for nonprofits.	484	533	11	32	48	↗	\$33.32 \$53.57	Bachelor's degree	5 years or more	None		★		E	A	Marketing	

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	2018	2028	Exits	Transfers	Total													
Public Relations Specialists (27-3031): Engage in promoting or creating an intended public image for individuals, groups, or organizations. May write or select material for release to various communications media.	1,257	1,381	39	98	149	↑	\$17.58 \$27.05	Bachelor's degree	None	None	★	★	★	E	A	S	Marketing	
Pump Operators, Except Wellhead Pumpers (53-7072): Tend, control, or operate power-driven, stationary, or portable pumps and manifold systems to transfer gases, oil, other liquids, slurries, or powdered materials to and from various vessels and processes.	171	183	6	15	22	↘	\$20.19 \$25.34	High school diploma or equivalent	None	Moderate-term on-the-job training		★		R	C	I	Transportation, Distribution & Logistics	
Purchasing Managers (11-3061): Plan, direct, or coordinate the activities of buyers, purchasing officers, and related workers involved in purchasing materials, products, and services. Includes wholesale or retail trade merchandising managers and procurement managers.	478	500	12	29	43	↗	\$41.70 \$58.67	Bachelor's degree	5 years or more	None		★		E	C		Business Management & Administration	
Radiation Therapists (29-1124): Provide radiation therapy to patients as prescribed by a radiologist. May review prescription and diagnosis; act as liaison with physician and support personnel; prepare equipment, such as immobilization, treatment, and protection devices; and maintain records.	119	128	2	4	7	↘	\$32.98 \$42.28	Associate's degree	None	None		★	★	S	R	C	Health Science	
Radio and Television Announcers (27-3011): Speak or read from scripted materials, such as news reports or commercial messages, on radio or television. May announce artist or title of performance, identify station, or interview guests.	216	173	8	14	18	↓	\$9.67 \$14.38	Bachelor's degree	None	None		★		A	E	S	Arts, Audio/Video Technology & Communications	
Radio, Cellular, and Tower Equipment Installers and Repairers (49-2021): Repair, install or maintain radio transmitting, broadcasting, and receiving equipment for two-way cellular, mobile broadband, ship-to-shore, or aircraft-to-ground communication systems, or service and emergency vehicle radios.	n	n	n	n	n	↘	\$17.10 \$24.73	Associate's degree	None	Moderate-term on-the-job training	★	★		R	C		Arts, Audio/Video Technology & Communications	
Radiologic Technologists (29-2034): Take x-rays and CAT scans or administer nonradioactive materials into patient's blood stream for diagnostic purposes. Includes technologists who specialize in other scanning modalities.	1,008	1,098	26	32	67	↗	\$23.84 \$30.03	Associate's degree	None	None	★	★	★	R	S		Health Science	
Rail Car Repairers (49-3043): Diagnose, adjust, repair, or overhaul railroad rolling stock, mine cars, or mass transit rail cars.	n	n	n	n	n	↘	NP NP	High school diploma or equivalent	None	Long-term on-the-job training	★	★		R	C	I	Transportation, Distribution & Logistics	
Rail Transportation Workers, All Other (53-4099): All rail transportation workers not listed separately.	n	n	n	n	n	↓	NP NP	High school diploma or equivalent	None	Moderate-term on-the-job training							Transportation, Distribution & Logistics	

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	2018	2028	Exits	Transfers	Total												
Rail Yard Engineers, Dinkey Operators, and Hostlers (53-4013): Drive switching or other locomotive or dinkey engines within railroad yard, industrial plant, quarry, construction project, or similar location.	n	n	n	n	n	↘	NP NP	High school diploma or equivalent	None	Moderate-term on-the-job training				R	C	I	Transportation, Distribution & Logistics
Railroad Brake, Signal, and Switch Operators (53-4021): Operate railroad track switches. Couple or uncouple rolling stock to make up or break up trains. Signal engineers by hand or flagging. May inspect couplings, air hoses, journal boxes, and hand brakes.	n	n	n	n	n	↓	NP NP	High school diploma or equivalent	None	Moderate-term on-the-job training				R	C		Transportation, Distribution & Logistics
Railroad Conductors and Yardmasters (53-4031): Coordinate activities of switch engine crew within rail yard, industrial plant, or similar location. Conductors coordinate activities of crew on trains. Yardmasters review schedules and switching orders, and coordinate railroad traffic operations.	n	n	n	n	n	↘	\$14.55 \$20.66	High school diploma or equivalent	None	Moderate-term on-the-job training				E	R	C	Transportation, Distribution & Logistics
Rail-Track Laying and Maintenance Equipment Operators (47-4061): Lay, repair, and maintain track for standard or narrow-gauge railroad equipment used in regular railroad service or in plant yards, quarries, sand and gravel pits, and mines. Operate ballast cleaning or rail bed tamping machines.	38	44	1	3	5	↘	\$14.33 \$18.84	High school diploma or equivalent	None	Moderate-term on-the-job training		★		R			Transportation, Distribution & Logistics
Real Estate Brokers (41-9021): Operate real estate office, or work for commercial real estate firm, overseeing real estate transactions. Other duties usually include selling real estate or renting properties and arranging loans.	257	279	12	13	27	↗	\$25.43 \$32.14	High school diploma or equivalent	Less than 5 years	None			★	E	C		Marketing
Real Estate Sales Agents (41-9022): Rent, buy, or sell property for clients. Perform duties such as study property listings, interview prospective clients, accompany clients to property site, discuss conditions of sale, and draw up real estate contracts. Includes agents who represent buyer.	695	752	33	36	75	↑	\$15.02 \$22.75	High school diploma or equivalent	None	Moderate-term on-the-job training			★	E	C		Marketing
Receptionists and Information Clerks (43-4171): Answer inquiries and provide information to the general public, customers, visitors, and other interested parties regarding activities conducted at establishment and location of departments, offices, and employees within the organization.	5,320	5,584	317	415	758	↗	\$10.55 \$14.79	High school diploma or equivalent	None	Short-term on-the-job training				C	E	S	Business Management & Administration
Recreation and Fitness Studies Teachers, Postsecondary (25-1193): Teach courses pertaining to recreation, leisure, and fitness studies, including exercise physiology and facilities management. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	61	64	2	3	5	↓	\$23,121 \$57,857	Doctoral or professional degree	None	None		★		S			Education & Training
Recreation Workers (39-9032): Conduct recreation activities with groups in public, private, or volunteer agencies or recreation facilities. Organize and promote activities such as arts and crafts, sports, games, music, dramatics, camping, and hobbies, based on member needs and interests.	2,390	2,608	149	266	437	↑	\$9.66 \$13.71	High school diploma or equivalent	None	Short-term on-the-job training	★	★		S	E	A	Hospitality & Tourism

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	Employment		Avg. Annual Openings					Education	Experience	Training				1 st	2 nd	3 rd	
	2018	2028	Exits	Transfers	Total												
Recreational Therapists (29-1125): Plan, direct, or coordinate medically-approved recreation for patients in hospitals, nursing homes, or other institutions. Activities include sports, trips, dramatics, social activities, and arts and crafts. May assess patient condition and recommend activity.	79	88	2	2	5	↘	\$21.18 \$23.77	Bachelor's degree	None	None			★	S	A		Health Science
Recreational Vehicle Service Technicians (49-3092): Diagnose, inspect, adjust, repair, or overhaul recreational vehicles including travel trailers. May specialize in maintaining gas, electrical, hydraulic, plumbing, or chassis/towing systems, or repair generators, appliances, and interiors.	138	154	4	12	18	↗	\$14.34 \$19.20	High school diploma or equivalent	None	Long-term on-the-job training	★			R	I	C	Transportation, Distribution & Logistics
Refuse and Recyclable Material Collectors (53-7081): Collect and dump refuse or recyclable materials from containers into truck. May drive truck.	790	836	44	68	117	↗	\$11.96 \$15.54	No formal educational credential	None	Short-term on-the-job training				R	C		Agriculture, Food & Natural Resources
Registered Nurses (29-1141): Assess patient health problems and needs, develop and implement nursing care plans, and maintain medical records. Administer care to ill, injured, convalescent, or disabled patients. May advise patients on health maintenance and disease prevention.	13,830	15,582	408	377	960	↑	\$26.91 \$34.95	Associate's degree	None	None	★	★	★	S	I	C	Health Science
Rehabilitation Counselors (21-1015): Counsel individuals coping with personal, social, and vocational difficulties resulting from birth defects, illness, disease, accidents, or the stress of daily life. Assess client needs and design rehabilitation programs, including counseling, training, or job placement.	316	351	11	23	38	↑	\$15.79 \$19.41	Master's degree	None	None			★	S	I		Human Services
Reinforcing Iron and Rebar Workers (47-2171): Position and secure steel bars or mesh in concrete forms in order to reinforce concrete. Use a variety of fasteners, rod-bending machines, blowtorches, and hand tools. Includes rod busters.	n	n	n	n	n	↓	NP NP	High school diploma or equivalent	None	Apprenticeship	★			R	C	I	Architecture & Construction
Religious Workers, All Other (21-2099): All religious workers not listed separately.	188	209	12	14	28	↑	NP NP	Bachelor's degree	None	None	★	★					Human Services
Reporters and Correspondents (27-3022): Collect and analyze facts about newsworthy events by interview, investigation, or observation. Report and write stories for newspaper, news magazine, radio, or television.	184	141	6	14	16	↓	\$13.09 \$18.95	Bachelor's degree	None	None		★		A	E	I	Arts, Audio/Video Technology & Communications
Reservation and Transportation Ticket Agents and Travel Clerks (43-4181): Make and confirm reservations for transportation or lodging, or sell transportation tickets. Check baggage; direct passengers to concourse, pier, or track; deliver tickets; or provide travel or transport information.	331	346	14	24	40	↗	\$10.79 \$13.78	High school diploma or equivalent	None	Short-term on-the-job training		★		C	E	S	Hospitality & Tourism

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	Employment		Avg. Annual Openings		Total				Education	Experience	Training				1 st	2 nd	3 rd	
	2018	2028	Exits	Transfers														
Residential Advisors (39-9041): Coordinate activities in secondary and college dormitories, group homes, or similar establishments. Order supplies and determine need for maintenance, repairs, and furnishings. May assign rooms. May assist residents with problems or refer them to counseling.	370	423	22	38	65	↑	\$11.48 \$15.02	High school diploma or equivalent	None	Short-term on-the-job training	★	★		S	E	C	Human Services	
Respiratory Therapists (29-1126): Assess, treat, and care for patients with breathing disorders. Assume primary responsibility for all respiratory care modalities. Initiate and conduct therapeutic procedures; maintain patient records; and select, assemble, check, and operate equipment.	383	463	12	11	31	↑	\$27.15 \$32.82	Associate's degree	None	None			★	S	I	R	Health Science	
Respiratory Therapy Technicians (29-2054): Provide respiratory care under the direction of respiratory therapists and physicians.	51	21	2	2	1	↓	NP NP	Associate's degree	None	None		★	★	S	R	I	Health Science	
Retail Salespersons (41-2031): Sell merchandise, such as furniture, motor vehicles, appliances, or apparel to consumers.	24,912	24,632	1,424	2,195	3,591	↗	\$9.64 \$12.05	No formal educational credential	None	Short-term on-the-job training		★		E	C		Marketing	
Riggers (49-9096): Set up or repair rigging for construction projects, manufacturing plants, logging yards, ships and shipyards, or for the entertainment industry.	49	55	1	4	6	↗	\$19.03 \$22.12	High school diploma or equivalent	None	Moderate-term on-the-job training	★	★		R	C	I	Architecture & Construction	
Rock Splitters, Quarry (47-5051): Separate blocks of rough dimension stone from quarry mass using jackhammer and wedges.	n	n	n	n	n	↘	NA NA	No formal educational credential	None	Short-term on-the-job training		★		R	C		Agriculture, Food & Natural Resources	
Rolling Machine Setters, Operators, and Tenders, Metal and Plastic (51-4023): Set up, operate, or tend machines to roll steel or plastic forming bends, beads, knurls, rolls, or plate or to flatten, temper, or reduce gauge of material.	47	42	1	3	4	↓	\$13.89 \$18.55	High school diploma or equivalent	None	Moderate-term on-the-job training	★			R	C		Manufacturing	
Roofers (47-2181): Cover roofs of structures with shingles, slate, asphalt, aluminum, wood, or related materials. May spray roofs, sidings, and walls with material to bind, seal, insulate, or soundproof sections of structures.	314	352	8	26	38	↑	\$14.89 \$19.21	No formal educational credential	None	Moderate-term on-the-job training	★			R	C		Architecture & Construction	
Sailors and Marine Oilers (53-5011): Stand watch, measure water depth, turn wheel on bridge, or use emergency equipment as directed by captain, mate, or pilot. Break out, rig, overhaul, and store rigging or running gear. Perform maintenance to preserve ship's painted surface and to maintain equipment.	n	n	n	n	n	↘	NP NP	No formal educational credential	None	Moderate-term on-the-job training	★	★		R	C		Transportation, Distribution & Logistics	

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	Employment		Avg. Annual Openings						2019 Wage Entry Level Median	Usual Education	Experience				Training	Apprentice	Military		NH License	1 st	2 nd	3 rd
	2018	2028	Exits	Transfers	Total																	
Sales and Related Workers, All Other (41-9099): All sales and related workers not listed separately.	446	477	20	40	63	↗	\$11.75 \$18.09	High school diploma or equivalent	None	None			★				Marketing					
Sales Engineers (41-9031): Sell business goods or services, the selling of which requires a technical background equivalent to a baccalaureate degree in engineering. Excludes Engineers whose primary function is not marketing or sales.	424	457	10	38	51	↗	\$39.90 \$57.41	Bachelor's degree	None	Moderate-term on-the-job training				E	R	I	Marketing					
Sales Managers (11-2022): Plan, direct, or coordinate the distribution or movement of a product or service to customers. Coordinate sales distribution by setting sales territories, quotas, and goals, and establish training programs for sales reps. Analyze sales statistics and customer preferences.	1,659	1,796	35	118	167	↑	\$41.11 \$70.96	Bachelor's degree	Less than 5 years	None				E	C		Marketing					
Sales Representatives, Services, All Other (41-3099): All services sales representatives not listed separately. Includes Energy Brokers.	3,836	4,223	119	391	549	↑	\$17.78 \$28.85	High school diploma or equivalent	None	Moderate-term on-the-job training							Marketing					
Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products (41-4012): Sell goods for wholesalers or manufacturers to businesses or groups of individuals. Work requires substantial knowledge of items sold.	6,349	6,630	197	483	708	↗	\$18.83 \$31.23	High school diploma or equivalent	None	Moderate-term on-the-job training				C	E		Marketing					
Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products (41-4011): Sell goods for wholesalers or manufacturers where technical or scientific knowledge is required in such areas as biology, engineering, chemistry, and electronics, normally obtained from at least two years of postsecondary education.	2,779	2,971	88	214	321	↑	\$26.52 \$43.75	Bachelor's degree	None	Moderate-term on-the-job training	★			E	C		Marketing					
Sawing Machine Setters, Operators, and Tenders, Wood (51-7041): Set up, operate, or tend wood sawing machines. May operate CNC equipment. Includes lead sawyers.	99	89	3	8	10	↓	\$13.21 \$15.00	High school diploma or equivalent	None	Moderate-term on-the-job training	★			R	C	I	Manufacturing					
Secondary School Teachers, Except Special and Career/Technical Education (25-2031): Teach students in one or more subjects, such as English, mathematics, or social studies at the secondary level in public or private schools. May be designated according to subject matter specialty.	5,078	5,115	142	215	361	↗	\$44,182 \$60,506	Bachelor's degree	None	None			★	S	A	E	Education & Training					
Secretaries and Administrative Assistants, Except Legal, Medical, and Executive (43-6014): Perform routine clerical and administrative functions. Draft correspondence, schedule appointments, organize and maintain paper and electronic files, or provide information to callers.	12,130	11,138	596	706	1,203	↗	\$13.72 \$18.31	High school diploma or equivalent	None	Short-term on-the-job training	★	★		C	E		Business Management & Administration					

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	Employment		Avg. Annual Openings		Total			Education	Experience	Training				1 st	2 nd	3 rd	
	2018	2028	Exits	Transfers													
Securities, Commodities, and Financial Services Sales Agents (41-3031): Buy and sell securities or commodities in investment and trading firms, or provide financial services to businesses and individuals. May advise clients on stocks, bonds, mutual funds, commodities, or market conditions.	1,297	1,373	34	92	134	↗	\$21.36 \$32.17	Bachelor's degree	None	Moderate-term on-the-job training			★	E	C	Finance	
Security and Fire Alarm Systems Installers (49-2098): Install, program, maintain, and repair security and fire alarm wiring and equipment. Ensure that work is in accordance with relevant codes.	341	381	10	33	47	↑	\$15.59 \$24.39	High school diploma or equivalent	None	Moderate-term on-the-job training	★	★		R	C	Architecture & Construction	
Security Guards (33-9032): Guard, patrol, or monitor premises to prevent theft, violence, or infractions of rules. May operate x-ray and metal detector equipment.	2,370	2,414	122	186	312	↗	\$12.61 \$16.15	High school diploma or equivalent	None	Short-term on-the-job training	★	★	★	R	C	E	Law, Public Safety, Corrections & Security
Self-Enrichment Education Teachers (25-3021): Teach or instruct courses other than those normally leading to an occupation or degree. Courses may include self-improvement, nonvocational, and nonacademic subjects. Teaching may or may not take place in a traditional educational institution.	2,059	2,370	128	125	284	↑	\$13.26 \$23.13	High school diploma or equivalent	Less than 5 years	None			★	S	A	E	Education & Training
Semiconductor Processors (51-9141): Manufacture semiconductors by loading material into furnace; sawing ingots into segments; loading segments into crystal growing chamber; sawing ingots into wafers; and cleaning, polishing, and loading into furnaces or chemical baths to form circuitry.	81	79	3	6	9	↓	\$17.69 \$21.24	High school diploma or equivalent	None	Moderate-term on-the-job training				R	C	I	Manufacturing
Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders (51-9012): Set up, operate, or tend equipment to extract, sort, or separate liquids, gases, or solids from other materials to recover a refined product.	510	561	14	48	67	↗	\$18.27 \$26.28	High school diploma or equivalent	None	Moderate-term on-the-job training	★			R	C	I	Manufacturing
Septic Tank Servicers and Sewer Pipe Cleaners (47-4071): Clean and repair septic tanks, sewer lines, or drains. May patch walls and partitions of tank, replace damaged drain tile, or repair breaks in underground piping.	218	247	7	20	30	↑	\$16.43 \$19.97	High school diploma or equivalent	None	Moderate-term on-the-job training			★	R			Architecture & Construction
Set and Exhibit Designers (27-1027): Design special exhibits and movie, television, and theater sets. May study scripts, confer with directors, and conduct research to determine appropriate architectural styles.	n	n	n	n	n	↘	\$17.17 \$26.38	Bachelor's degree	None	None	★			A	R		Arts, Audio/Video Technology & Communications
Sewers, Hand (51-6051): Sew, join, reinforce, or finish, usually with needle and thread, a variety of manufactured items. Includes weavers and stitchers.	n	n	n	n	n	↓	NP NP	No formal educational credential	None	Moderate-term on-the-job training				R	A	C	Manufacturing

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	Employment		Avg. Annual Openings					Education	Experience	Training				1 st	2 nd	3 rd	
	2018	2028	Exits	Transfers	Total												
Sewing Machine Operators (51-6031): Operate or tend sewing machines to join, reinforce, decorate, or perform related sewing operations in the manufacture of garment or nongarment products.	519	516	30	28	58	↗	\$12.02 \$14.60	No formal educational credential	None	Short-term on-the-job training	★			R	C	Manufacturing	
Shampoers (39-5093): Shampoo and rinse customers' hair.	n	n	n	n	n	↘	NP NP	No formal educational credential	None	Short-term on-the-job training				R	E	C	Human Services
Sheet Metal Workers (47-2211): Fabricate, assemble, install, and repair sheet metal products such as ducts, control boxes, drainpipes, and furnace casings. May set up and operate machines to cut, bend, or straighten sheet metal; shape using hammer; or solder and weld to join sheet metal parts.	535	580	16	44	64	↗	\$16.31 \$24.67	High school diploma or equivalent	None	Apprenticeship	★	★		R		Architecture & Construction	
Ship Engineers (53-5031): Supervise and coordinate activities of crew engaged in operating and maintaining engines, boilers, deck machinery, and electrical, sanitary, and refrigeration equipment aboard ship.	n	n	n	n	n	↘	\$28.96 \$41.79	Postsecondary non-degree award	Less than 5 years	None		★		R	C	E	Transportation, Distribution & Logistics
Shipping, Receiving, and Traffic Clerks (43-5071): Verify and maintain records on shipments. Prepare items for shipment. May assemble, address, stamp, and ship merchandise or material; receive, unpack, verify and record incoming merchandise or material; or arrange for product transportation.	2,841	2,889	96	189	290	↗	\$12.82 \$17.19	High school diploma or equivalent	None	Short-term on-the-job training		★		C	R	E	Manufacturing
Shoe and Leather Workers and Repairers (51-6041): Construct, decorate, or repair leather and leather-like products, such as luggage, shoes, and saddles.	99	92	7	4	10	↘	NP NP	High school diploma or equivalent	None	Moderate-term on-the-job training	★			R	C	A	Manufacturing
Shoe Machine Operators and Tenders (51-6042): Operate or tend a variety of machines to join, decorate, reinforce, or finish shoes and shoe parts.	n	n	n	n	n	↘	NP NP	High school diploma or equivalent	None	Short-term on-the-job training				R	C	Manufacturing	
Signal and Track Switch Repairers (49-9097): Install, inspect, test, maintain, or repair electric gate crossings, signals, signal equipment, track switches, section lines, or intercommunications systems within a railroad system.	n	n	n	n	n	↘	NP NP	High school diploma or equivalent	None	Moderate-term on-the-job training	★			R	C	Transportation, Distribution & Logistics	
Skincare Specialists (39-5094): Provide skincare treatments to face and body to enhance an individual's appearance. Includes electrologists and laser hair removal specialists.	355	396	21	22	47	↗	\$10.42 \$13.52	Postsecondary non-degree award	None	None	★	★	E	S	R	Human Services	

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	2018	2028	Exits	Transfers	Total												
Slaughterers and Meat Packers (51-3023): Work in slaughtering, meat packing, or wholesale establishments performing precision functions involving the preparation of meat. Work may include cutting standard or premium cuts of meat for marketing, making sausage, or wrapping meats.	n	n	n	n	n	↘	NP NP	No formal educational credential	None	Short-term on-the-job training	★		R	C		Agriculture, Food & Natural Resources	
Social and Community Service Managers (11-9151): Plan, direct, or coordinate the activities of a social service program or community outreach organization. Oversee the program or organization's budget and policies regarding participant involvement, program requirements, and benefits.	828	957	27	51	91	↑	\$22.95 \$31.00	Bachelor's degree	Less than 5 years	None	★		E	S		Human Services	
Social and Human Service Assistants (21-1093): Assist in providing client services in a wide variety of fields, such as psychology, rehabilitation, or social work, including support for families. May assist clients in identifying and obtaining available benefits and social and community services.	2,242	2,591	97	191	323	↑	\$11.70 \$15.67	High school diploma or equivalent	None	Short-term on-the-job training	★		C	S	E	Human Services	
Social Science Research Assistants (19-4061): Assist social scientists in laboratory, survey, and other social science research. May help prepare findings for publication and assist in laboratory analysis, quality control, or data management.	55	63	2	5	8	↗	\$15.11 \$18.88	Bachelor's degree	None	None			C	I		Science, Technology, Engineering & Mathematics	
Social Sciences Teachers, Postsecondary, All Other (25-1069): All postsecondary social sciences teachers not listed separately.	63	62	2	3	5	↓	\$42,536 \$61,227	Doctoral or professional degree	None	None	★					Education & Training	
Social Scientists and Related Workers, All Other (19-3099): All social scientists and related workers not listed separately. Includes Transportation Planners.	48	50	2	4	6	↘	\$25.70 \$31.02	Bachelor's degree	None	None	★					Science, Technology, Engineering & Mathematics	
Social Work Teachers, Postsecondary (25-1113): Teach courses in social work. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	55	58	2	3	5	↓	NP NP	Doctoral or professional degree	None	None			S	I		Education & Training	
Social Workers, All Other (21-1029): All social workers not listed separately.	n	n	n	n	n	↘	\$27.63 \$35.78	Bachelor's degree	None	None	★					Human Services	
Sociologists (19-3041): Study human society and social behavior by examining the groups and social institutions that people form, as well as various social, religious, political, and business organizations. May study the behavior and interaction of groups, trace their origin and growth, and analyze the influence of group activities on individual members.	n	n	n	n	n	↓	NP NP	Master's degree	None	None			I	A	S	Science, Technology, Engineering & Mathematics	

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	2018	2028	Exits	Transfers													
Sociology Teachers, Postsecondary (25-1067): Teach courses in sociology. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	81	86	3	4	7	↘	\$42,011 \$75,848	Doctoral or professional degree	None	None				S	I	A	Education & Training
Software Developers, Applications (15-1132): Develop, create, and modify computer applications software or specialized utility programs. Analyze user needs and develop software solutions. Design or customize software for client. May analyze and design databases within an application area.	6,663	8,366	104	425	699	↑	\$33.62 \$53.06	Bachelor's degree	None	None	★	★		I	R	C	Information Technology
Software Developers, Systems Software (15-1133): Research, design, develop, and test operating systems-level software, compilers, and network distribution software. Set operational specifications and formulate and analyze software requirements. May design embedded systems software.	1,559	1,672	22	91	124	↑	\$33.62 \$53.06	Bachelor's degree	None	None	★	★		I	C	R	Information Technology
Soil and Plant Scientists (19-1013): Research breeding, physiology, production, yield, and management of crops and agricultural plants and trees, shrubs, or nursery stock, growth in soil, and pest control; or study soil chemical, physical, biological, or mineralogical composition for plant or crop growth.	n	n	n	n	n	↘	NP NP	Bachelor's degree	None	None	★	★		I	R		Agriculture, Food & Natural Resources
Solar Photovoltaic Installers (47-2231): Assemble, install, or maintain solar photovoltaic (PV) systems on roofs or other structures in compliance with site assessment and schematics. May include measuring, cutting, assembling, and bolting structural framing and solar modules. May perform minor electrical work such as current checks.	n	n	n	n	n	↗	\$17.26 \$21.54	High school diploma or equivalent	None	Moderate-term on-the-job training				R	C		Architecture & Construction
Sound Engineering Technicians (27-4014): Operate machines and equipment to record, synchronize, mix, or reproduce music, voices, or sound effects in sporting arenas, theater productions, recording studios, or movie and video productions.	n	n	n	n	n	↓	NP NP	Postsecondary non-degree award	None	Short-term on-the-job training	★			R	A		Arts, Audio/Video Technology & Communications
Special Education Teachers, All Other (25-2059): All special education teachers not listed separately. Includes Adapted Physical Education Specialists.	81	88	3	4	8	↘	\$33,869 \$42,937	Bachelor's degree	None	None		★					Education & Training
Special Education Teachers, Kindergarten and Elementary School (25-2052): Teach school subjects to educationally and physically handicapped students. Includes teachers of audibly and visually handicapped students or basic academic and life processes skills to the mentally impaired.	974	976	32	41	73	↗	\$43,810 \$59,350	Bachelor's degree	None	None		★		S	A		Education & Training
Special Education Teachers, Middle School (25-2053): Teach middle school subjects to educationally and physically handicapped students. Includes those who work with audibly and visually handicapped students or teach basic academic and life processes skills to the mentally impaired.	569	568	19	24	43	↗	\$40,359 \$53,767	Bachelor's degree	None	None		★		S	A		Education & Training

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	2018	2028	Exits	Transfers	Total												
Special Education Teachers, Preschool (25-2051): Teach school subjects to educationally and physically handicapped students. Includes teachers of audibly and visually handicapped students or basic academic and life processes skills to the mentally impaired.	n	n	n	n	n	↓	\$44,918 \$57,265	Bachelor's degree	None	None			S	A		Education & Training	
Special Education Teachers, Secondary School (25-2054): Teach secondary subjects to educationally and physically handicapped students. Includes those who work with audibly and visually handicapped students or teach basic academic and life processes skills to the mentally impaired.	662	666	22	28	50	↗	\$46,215 \$60,701	Bachelor's degree	None	None		★	S	I		Education & Training	
Speech-Language Pathologists (29-1127): Assess and treat persons with speech, language, voice, and fluency disorders. May select alternative communication systems and teach their use. May perform research related to speech and language problems.	643	769	14	24	51	↑	\$28.23 \$36.44	Master's degree	None	Internship or Residency		★	★	S	I	A	Health Science
Stationary Engineers and Boiler Operators (51-8021): Operate or maintain stationary engines, boilers, or other mechanical equipment to provide utilities for buildings or industrial processes. Operate equipment such as steam engines, generators, motors, turbines, and steam boilers.	113	117	4	8	12	↘	\$22.97 \$30.85	High school diploma or equivalent	None	Long-term on-the-job training	★	★		R	I	C	Architecture & Construction
Statistical Assistants (43-9111): Compile and compute data according to statistical formulas for use in statistical studies. May perform actuarial computations and compile charts and graphs for use by actuaries. Includes actuarial clerks.	73	83	3	6	10	↗	\$15.65 \$18.52	Bachelor's degree	None	None		★		C	I	E	Finance
Statisticians (15-2041): Develop or apply mathematical or statistical theory and methods to collect, organize, interpret, and summarize numerical data to provide usable information. May specialize in fields such as bio-statistics, agricultural statistics, business statistics, or economic statistics.	99	131	2	7	12	↗	\$26.22 \$35.39	Master's degree	None	None		★		C	I		Science, Technology, Engineering & Mathematics
Stock Clerks and Order Fillers (43-5081): Receive, store, and issue sales floor merchandise, materials, equipment, and other items from stockroom, warehouse, or storage yard to fill shelves, racks, tables, or customers' orders. May mark prices on merchandise and set up sales displays.	14,031	14,568	724	1,180	1,958	↗	\$10.56 \$12.75	High school diploma or equivalent	None	Short-term on-the-job training		★		C	R	E	Transportation, Distribution & Logistics
Stonemasons (47-2022): Build stone structures such as piers, walls, and abutments. Lay walks, curbstones, or special types of masonry for vats, tanks, and floors.	183	204	6	14	22	↗	\$16.77 \$20.51	High school diploma or equivalent	None	Apprenticeship	★			R			Architecture & Construction
Structural Iron and Steel Workers (47-2221): Raise, place, and unite iron or steel girders, columns, and other structural members to form completed structures or structural frameworks. May erect metal storage tanks and assemble prefabricated metal buildings.	280	316	8	27	39	↑	\$16.99 \$21.43	High school diploma or equivalent	None	Apprenticeship	★	★		R	I	C	Architecture & Construction

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	Employment		Avg. Annual Openings					Education	Experience	Training				1 st	2 nd	3 rd	
	2018	2028	Exits	Transfers	Total												
Structural Metal Fabricators and Fitters (51-2041): Fabricate, position, align, and fit parts of structural metal products. Shipfitters are included in Layout Workers, Metal and Plastic (51-4192).	210	187	5	16	19	↓	\$15.96 \$21.16	High school diploma or equivalent	None	Moderate-term on-the-job training	★	★		R	C		Manufacturing
Substance Abuse and Behavioral Disorder Counselors, and Mental Health Counselors (21-1018): Counsel with emphasis on prevention, promoting mental and emotional health. Help persons deal with addiction and substance abuse; family, parenting, or marital problems; self-esteem; stress; or problems with alcohol, drugs, tobacco, gambling, or eating.	1,888	2,402	70	150	271	↑	\$14.85 \$20.02	Bachelor's degree	None	None		★	★	S	I	A	Human Services
Substitute Teachers (25-3098): Teach students in a public or private school when the regular teacher is unavailable due to illness, personal leave, or other reasons.	2,791	2,797	161	157	319	↗	\$10.73 \$11.40	Bachelor's degree	None	None							Education & Training
Surgeons (29-1067): Physicians who treat diseases, injuries, and deformities by invasive, minimally-invasive, or non-invasive surgical methods, such as using instruments, appliances, or by manual manipulation.	497	500	8	6	14	↘	# #	Doctoral or professional degree	None	Internship or Residency		★	★	I	R	S	Health Science
Surgical Technologists (29-2055): Assist in operations, under the supervision of surgeons or surgical personnel. Help set up operating room, prepare and transport patients, pass instruments or supplies, adjust lights and equipment, hold retractors, cut sutures, or count sponges, needles, and instruments.	460	498	14	25	43	↗	\$18.81 \$24.78	Postsecondary non-degree award	None	None	★	★		R	S	C	Health Science
Survey Researchers (19-3022): Plan, develop, or conduct surveys. May analyze and interpret the meaning of survey data, determine survey objectives, or suggest or test question wording. Includes social scientists who primarily design questionnaires or supervise survey teams.	n	n	n	n	n	↘	NP NP	Master's degree	None	None				I	C	E	Science, Technology, Engineering & Mathematics
Surveying and Mapping Technicians (17-3031): Perform surveying and mapping duties to obtain data for construction, mapmaking, boundary location, mining, or other purposes. Create maps from source data, such as aerial photography or satellite data, to show topographical features.	291	354	9	29	44	↑	\$17.89 \$22.57	High school diploma or equivalent	None	Moderate-term on-the-job training	★	★		C	R		Science, Technology, Engineering & Mathematics
Surveyors (17-1022): Make exact measurements and determine property boundaries. Provide data relevant to the shape, contour, gravitation, location, elevation, or dimension of land or land features on or near the earth's surface for engineering, mapmaking, mining, land evaluation, or construction.	241	300	7	13	26	↑	\$21.54 \$30.82	Bachelor's degree	None	Internship or Residency		★	★	R	C	I	Science, Technology, Engineering & Mathematics
Switchboard Operators, Including Answering Service (43-2011): Operate telephone business systems equipment or switchboards to relay incoming, outgoing, and interoffice calls. May supply information to callers and record messages.	359	281	18	21	31	↗	\$9.82 \$14.78	High school diploma or equivalent	None	Short-term on-the-job training		★		C	E	S	Business Management & Administration

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	Employment		Avg. Annual Openings		Total				Experience	Training	1 st				2 nd	3 rd		
	2018	2028	Exits	Transfers														
Tailors, Dressmakers, and Custom Sewers (51-6052): Design, make, alter, repair, or fit garments.	102	94	8	5	12	↓	\$10.99 \$14.16	No formal educational credential	None	Moderate-term on-the-job training	★			R	A	E	Human Services	
Tank Car, Truck, and Ship Loaders (53-7121): Load and unload chemicals and bulk solids, such as coal, sand, and grain into or from tank cars, trucks, or ships using material moving equipment. May gauge or sample shipping tanks and test them for leaks, or perform other tasks related to product shipment.	n	n	n	n	n	↓	NP NP	No formal educational credential	None	Short-term on-the-job training	★	★		R	C		Transportation, Distribution & Logistics	
Tapers (47-2082): Seal joints between plasterboard or other wallboard to prepare wall surface for painting or papering.	n	n	n	n	n	↘	NP NP	No formal educational credential	None	Moderate-term on-the-job training	★			R			Architecture & Construction	
Tax Examiners and Collectors, and Revenue Agents (13-2081): Determine tax liability or collect taxes from individuals or business firms according to prescribed laws and regulations.	317	326	13	14	28	↗	\$14.65 \$23.64	Bachelor's degree	None	Moderate-term on-the-job training				C	E		Government & Public Administration	
Tax Preparers (13-2082): Prepare tax returns for individuals or small businesses.	357	385	18	24	45	↗	\$14.11 \$26.43	High school diploma or equivalent	None	Moderate-term on-the-job training				C	E		Finance	
Taxi Drivers and Chauffeurs (53-3041): Drive automobiles, vans, or limousines to transport passengers. May occasionally carry cargo. Includes hearse drivers.	2,612	3,105	154	156	359	↑	\$10.17 \$14.77	No formal educational credential	None	Short-term on-the-job training				R	E		Transportation, Distribution & Logistics	
Teacher Assistants (25-9041): Perform duties that are instructional in nature or deliver direct services to students or parents. Serve in a position for which a teacher has ultimate responsibility for the design and implementation of educational programs and services.	9,324	9,453	498	491	1,002	↗	\$22,971 \$31,442	Some college, no degree	None	None	★	★	S	C			Education & Training	
Teachers and Instructors, All Other, Except Substitute Teachers (25-3097): All teachers and instructors, except Substitute Teachers, not listed separately. Includes Tutors.	690	729	41	40	85	↗	\$27,104 \$40,816	Bachelor's degree	None	None		★	★				Education & Training	
Technical Writers (27-3042): Write technical materials, such as equipment manuals, appendices, or operating and maintenance instructions. May assist in layout work.	192	207	6	13	21	↘	\$25.94 \$36.31	Bachelor's degree	Less than 5 years	Short-term on-the-job training				A	I	C	Arts, Audio/Video Technology & Communications	

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	Employment		Avg. Annual Openings					Education	Experience	Training				1 st	2 nd	3 rd	
	2018	2028	Exits	Transfers	Total												
Telecommunications Equipment Installers and Repairers, Except Line Installers (49-2022): Install, set up, rearrange, or remove switching, distribution, routing, or dialing equipment in central offices or headends. Service or repair telephone, cable TV, Internet, and other equipment.	1,080	1,124	31	91	126	↗	\$21.17 \$34.41	Postsecondary non-degree award	None	Moderate-term on-the-job training	★	★		R	I	C	Arts, Audio/Video Technology & Communications
Telecommunications Line Installers and Repairers (49-9052): Install and repair telecommunications cable, including fiber optics.	522	566	13	48	65	↗	\$18.97 \$25.18	High school diploma or equivalent	None	Long-term on-the-job training	★	★		R	E		Arts, Audio/Video Technology & Communications
Telemarketers (41-9041): Solicit donations or orders for goods or services over the telephone.	642	548	29	65	85	↗	\$11.40 \$15.03	No formal educational credential	None	Short-term on-the-job training				E	C		Marketing
Telephone Operators (43-2021): Provide information using alphabetical, geographical, or other directories. Assist with billing requests, such as third-party charges and credits or refunds for wrong numbers or bad connections. May handle emergency calls or assist children and others to make calls.	n	n	n	n	n	↓	NP NP	High school diploma or equivalent	None	Short-term on-the-job training				C	S	R	Business Management & Administration
Tellers (43-3071): Receive and pay out money. Keep records of money and negotiable instruments involved in a financial institution's various transactions.	1,624	1,426	75	109	164	↗	\$12.89 \$15.34	High school diploma or equivalent	None	Short-term on-the-job training	★	★		C	E		Finance
Textile Bleaching and Dyeing Machine Operators and Tenders (51-6061): Operate or tend machines to bleach, shrink, wash, dye, or finish textiles or synthetic or glass fibers.	84	78	5	6	10	↓	\$15.53 \$18.99	High school diploma or equivalent	None	Short-term on-the-job training				R			Manufacturing
Textile Cutting Machine Setters, Operators, and Tenders (51-6062): Set up, operate, or tend machines that cut textiles.	91	90	4	4	8	↓	\$12.67 \$15.26	High school diploma or equivalent	None	Moderate-term on-the-job training				R	C		Manufacturing
Textile Knitting and Weaving Machine Setters, Operators, and Tenders (51-6063): Set up, operate, or tend machines that knit, loop, weave, or draw in textiles.	320	304	18	16	32	↗	\$13.83 \$17.08	High school diploma or equivalent	None	Short-term on-the-job training	★			R	C		Manufacturing
Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders (51-6064): Set up, operate, or tend machines that wind or twist textiles, or draw out and combine sliver, such as wool, hemp, or synthetic fibers. Includes slubber machine and drawing frame operators.	86	83	3	6	9	↓	\$12.93 \$16.29	High school diploma or equivalent	None	Moderate-term on-the-job training	★			R	C		Manufacturing

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	Employment		Avg. Annual Openings						Experience	Training	1 st				2 nd	3 rd		
	2018	2028	Exits	Transfers	Total													
Textile, Apparel, and Furnishings Workers, All Other (51-6099): All textile, apparel, and furnishings workers not listed separately.	70	65	4	5	9	↓	\$11.94 \$15.80	High school diploma or equivalent	None	Short-term on-the-job training							Manufacturing	
Therapists, All Other (29-1129): All therapists not listed separately.	n	n	n	n	n	↘	NP NP	Bachelor's degree	None	None							Health Science	
Tile and Marble Setters (47-2044): Apply hard tile, marble, and wood tile to walls, floors, ceilings, and roof decks.	170	202	5	13	21	↗	\$17.32 \$23.45	No formal educational credential	None	Long-term on-the-job training	★			R	C	A	Architecture & Construction	
Tire Builders (51-9197): Operate machines to build tires.	n	n	n	n	n	↓	NA NA	High school diploma or equivalent	None	Moderate-term on-the-job training				R	C		Manufacturing	
Tire Repairers and Changers (49-3093): Repair and replace tires.	556	532	16	43	57	↗	\$11.41 \$13.80	High school diploma or equivalent	None	Short-term on-the-job training				R	C		Transportation, Distribution & Logistics	
Title Examiners, Abstractors, and Searchers (23-2093): Search real estate records, examine titles, or summarize pertinent legal or insurance documents or details for a variety of purposes. May compile lists of mortgages or contracts pertaining to titles by searching public and private records.	85	81	3	5	8	↓	\$18.63 \$25.52	High school diploma or equivalent	None	Moderate-term on-the-job training				C	E	R	Law, Public Safety, Corrections & Security	
Tool and Die Makers (51-4111): Analyze specifications, lay out metal stock, set up and operate machine tools, and fit and assemble parts to make and repair dies, cutting tools, jigs, fixtures, gauges, and machinists' hand tools.	216	205	8	13	20	↓	\$19.31 \$27.59	Postsecondary non-degree award	None	Long-term on-the-job training	★			R	I	C	Manufacturing	
Tool Grinders, Filers, and Sharpeners (51-4194): Perform precision smoothing, sharpening, polishing, or grinding of metal objects.	53	53	4	4	8	↘	\$13.66 \$21.71	High school diploma or equivalent	None	Moderate-term on-the-job training	★	★		R	C		Manufacturing	
Tour and Travel Guides, and Tour Escorts (39-7010): Escort individuals or groups on sightseeing tours or through places of interest, such as industrial establishments, public buildings, and art galleries. Travel guides plan, organize, and conduct long distance travel, tours, and expeditions for individuals and groups.	215	232	17	22	41	↗	NP NP	High school diploma or equivalent	None	Moderate-term on-the-job training			★	S	E		Transportation, Distribution & Logistics	

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	2018	2028	Exits	Transfers	Total												
Traffic Technicians (53-6041): Under the direction of a traffic engineer, conduct field studies to determine traffic volume, speed, effectiveness of signals, adequacy of lighting, and other factors influencing traffic conditions.	n	n	n	n	n	↓	\$42.20 \$58.13	High school diploma or equivalent	None	Moderate-term on-the-job training				R	I	E	Business Management & Administration
Training and Development Managers (11-3131): Plan, direct, or coordinate the training and development activities and staff of an organization.	157	164	4	10	15	↘	\$20.38 \$30.72	Bachelor's degree	5 years or more	None		★		E	S		Business Management & Administration
Training and Development Specialists (13-1151): Design and conduct training and development programs to improve individual and organizational performance. May analyze training needs.	1,211	1,332	38	98	148	↑	\$9.87 \$11.31	Bachelor's degree	Less than 5 years	None	★	★		S	A	C	Hospitality & Tourism
Transportation Attendants, Except Flight Attendants (53-6061): Provide services to ensure the safety and comfort of passengers aboard ships, buses, trains, or within the station or terminal. Greet passengers, explain the use of safety equipment, serve meals or beverages, or answer questions.	n	n	n	n	n	↗	\$23.14 \$42.19	High school diploma or equivalent	None	Short-term on-the-job training				R	S	E	Government & Public Administration
Transportation Inspectors (53-6051): Inspect equipment or goods in connection with the safe transport of cargo or people. Includes rail transportation inspectors, such as freight inspectors, rail inspectors, and other inspectors of transportation vehicles not elsewhere classified.	60	65	2	4	6	↘	\$18.98 \$20.54	High school diploma or equivalent	None	Moderate-term on-the-job training	★	★		R	C	I	Government & Public Administration
Transportation Security Screeners (33-9093): Conduct screening of passengers, baggage, or cargo to ensure compliance with Transportation Security Administration (TSA) regulations. May operate basic security equipment such as x-ray machines and hand wands at screening checkpoints.	122	122	5	6	11	↘	\$12.55 \$15.49	High school diploma or equivalent	None	Short-term on-the-job training				R	E	C	Transportation, Distribution & Logistics
Transportation Workers, All Other (53-6099): All transportation workers not listed separately.	n	n	n	n	n	↘	\$35.52 \$50.94	High school diploma or equivalent	None	Short-term on-the-job training							Transportation, Distribution & Logistics
Transportation, Storage, and Distribution Managers (11-3071): Plan, direct, or coordinate transportation, storage, or distribution activities in accordance with organizational policies and applicable government laws or regulations. Includes logistics managers.	468	494	10	27	40	↗	\$16.61 \$24.49	High school diploma or equivalent	5 years or more	None		★		E	C		Hospitality & Tourism
Travel Agents (41-3041): Plan and sell transportation and accommodations for travel agency clients. Determine destination, modes of transportation, travel dates, costs, and accommodations required. May describe, plan, and arrange itineraries and sell tour packages, or help resolve travel problems.	335	332	19	25	44	↗	\$8.91 \$12.04	High school diploma or equivalent	None	Moderate-term on-the-job training				E	C		Hospitality & Tourism

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	2018	2028	Exits	Transfers														
Tree Trimmers and Pruners (37-3013): Cut away dead or excess branches from trees or shrubs to maintain right-of-way for roads, sidewalks, or utilities, or to improve tree appearance, health, and value. Use handsaws, hand pruners, clippers, or power pruners. Works off the ground in tree canopy.	879	970	38	82	129	↑	\$16.88 \$19.10	High school diploma or equivalent	None	Short-term on-the-job training	★			R			Agriculture, Food & Natural Resources	
Truck Drivers, Heavy and Tractor-Trailer (53-3032): Drive a tractor-trailer combination or a truck with a capacity of at least 26,000 pounds Gross Vehicle Weight (GVW). May be required to unload truck. Requires commercial drivers' license.	7,333	7,790	311	548	905	↑	\$17.24 \$22.25	Postsecondary non-degree award	None	Short-term on-the-job training	★	★		R	C		Transportation, Distribution & Logistics	
Truck Drivers, Light or Delivery Services Drivers (53-3033): Drive a light vehicle, such as a truck or van, with a capacity of less than 26,000 pounds Gross Vehicle Weight (GVW), primarily to deliver or pick up merchandise or to deliver packages. May load and unload vehicle.	4,307	4,563	183	322	531	↗	\$10.19 \$15.25	High school diploma or equivalent	None	Short-term on-the-job training				R	C		Transportation, Distribution & Logistics	
Umpires, Referees, and Other Sports Officials (27-2023): Officiate at competitive athletic or sporting events. Detect infractions of rules and decide penalties according to established regulations. Includes all sporting officials, referees, and competition judges.	n	n	n	n	n	↗	\$20,947 \$37,485	High school diploma or equivalent	None	Moderate-term on-the-job training				R	E	C	Hospitality & Tourism	
Upholsterers (51-6093): Make, repair, or replace upholstery for household furniture or transportation vehicles.	n	n	n	n	n	↘	\$18.14 \$23.32	High school diploma or equivalent	None	Moderate-term on-the-job training	★			R			Manufacturing	
Urban and Regional Planners (19-3051): Develop comprehensive plans and programs for use of land and physical facilities of jurisdictions such as towns, cities, counties, and metropolitan areas.	251	279	4	20	27	↑	\$23.30 \$31.73	Master's degree	None	None				I	E	A	Government & Public Administration	
Ushers, Lobby Attendants, and Ticket Takers (39-3031): Assist patrons at entertainment events by performing duties such as collecting admission tickets and passes from patrons, assisting in finding seats, searching for lost articles, and locating such facilities as rest rooms and telephones.	212	213	28	24	52	↗	\$8.52 \$9.43	No formal educational credential	None	Short-term on-the-job training				S	C	E	Hospitality & Tourism	
Veterinarians (29-1131): Diagnose, treat, or research diseases and injuries of animals. Includes veterinarians who conduct research and development, inspect livestock, or care for pets and companion animals.	519	626	11	11	33	↑	\$35.39 \$48.65	Doctoral or professional degree	None	None		★	★	I	R		Health Science	
Veterinary Assistants and Laboratory Animal Caretakers (31-9096): Feed, water, and examine pets and other nonfarm animals for signs of illness, disease, or injury in labs or animal hospitals and clinics. Clean and disinfect cages, and sterilize lab and surgical equipment. May administer medication.	378	456	23	45	76	↑	\$10.89 \$13.54	High school diploma or equivalent	None	Short-term on-the-job training	★	★		R	S	I	Agriculture, Food & Natural Resources	

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Veterinary Technologists and Technicians (29-2056): Perform medical tests in a laboratory for use in the treatment and diagnosis of animal diseases. Prepare vaccines and serums or tissue samples, take blood samples, and execute tests such as urinalysis or blood counts. Clean and sterilize instruments.	865	1,048	28	50	96	↑	\$14.22 \$17.67	Associate's degree	None	None				R	I		Agriculture, Food & Natural Resources
Vocational Education Teachers, Postsecondary (25-1194): Teach or instruct vocational or occupational subjects at the postsecondary level (but less than the baccalaureate) to students who have graduated or left high school. Teach at public or private schools, or non-education institutions.	209	208	8	10	18	↓	\$17.54 \$24.14	Bachelor's degree	Less than 5 years	None		★	★	S	R		Education & Training
Waiters and Waitresses (35-3031): Take orders and serve food and beverages to patrons at tables in dining establishment.	12,923	13,628	921	1,627	2,618	↗	\$8.45 \$9.61	No formal educational credential	None	Short-term on-the-job training				S	E	C	Hospitality & Tourism
Water and Wastewater Treatment Plant and System Operators (51-8031): Operate or control an entire process or system of machines, often through the use of control boards, to transfer or treat water or wastewater.	450	429	13	26	37	↗	\$19.72 \$23.91	High school diploma or equivalent	None	Long-term on-the-job training	★	★	★	R	C		Agriculture, Food & Natural Resources
Web Developers (15-1134): Design, create, and modify Web sites. Analyze user needs to implement Web site content, graphics, performance, and capacity. May integrate Web sites with other computer applications.	744	853	14	47	72	↑	\$22.05 \$31.71	Associate's degree	None	None				C	I	R	Information Technology
Weighers, Measurers, Checkers, and Samplers, Recordkeeping (43-5111): Weigh, measure, and check materials, supplies, and equipment for the purpose of keeping relevant records. Duties are primarily clerical by nature.	207	221	10	15	26	↗	\$13.71 \$19.21	High school diploma or equivalent	None	Short-term on-the-job training			★	C	R		Manufacturing
Welders, Cutters, Solderers, and Brazers (51-4121): Use hand-welding, flame-cutting, hand soldering, or brazing equipment to weld or join metal components or to fill holes, indentations, or seams of fabricated metal products.	904	951	24	78	107	↗	\$16.92 \$23.69	High school diploma or equivalent	None	Moderate-term on-the-job training	★	★		R			Manufacturing
Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders (51-4122): Set up, operate, or tend welding, soldering, or brazing machines or robots that weld, braze, solder, or heat treat metal products, components, or assemblies. Includes laser cutter or laser-beam machine operators.	275	255	7	22	27	↗	\$13.83 \$18.01	High school diploma or equivalent	None	Moderate-term on-the-job training	★			R	C		Manufacturing
Woodworking Machine Setters, Operators, and Tenders, Except Sawing (51-7042): Set up, operate, or tend woodworking machines such as drill presses, lathes, shapers, routers, sanders, planers, and wood nailing machines. May operate CNC equipment.	684	643	36	57	89	↗	\$12.64 \$17.18	High school diploma or equivalent	None	Moderate-term on-the-job training	★			R	C	I	Manufacturing

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	Employment		Avg. Annual Openings					Education	Experience	Training				1 st	2 nd	3 rd	
	2018	2028	Exits	Transfers	Total												
Word Processors and Typists (43-9022): Use word processor, computer, or typewriter to type letters, reports, forms, or other material from rough draft, corrected copy, or voice recording. May perform other clerical duties as assigned.	89	58	4	4	5	↓	\$12.55 \$16.49	High school diploma or equivalent	None	Short-term on-the-job training	★	★		C	E		Business Management & Administration
Writers and Authors (27-3043): Originate and prepare written material such as scripts, stories, advertisements, and other material.	824	827	35	51	86	↗	\$17.35 \$27.13	Bachelor's degree	None	Long-term on-the-job training		★		A	E	I	Arts, Audio/Video Technology & Communications
Zoologists and Wildlife Biologists (19-1023): Study the origins, behavior, diseases, genetics, and life processes of animals and wildlife. May collect and analyze biological data to determine the environmental effects of present and potential use of land and water habitats.	77	79	1	6	7	↘	\$22.53 \$31.79	Bachelor's degree	None	None				I	R		Science, Technology, Engineering & Mathematics