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APPENDIX B

SOC	Title	Projected Annual Openings	Typical Education Required
11-0000	Management Occupations	2,225	Expand for details
11-1011	Chief Executives	33	Bachelor's degree
11-1021	General and Operations Managers	562	Bachelor's degree
11-2011	Advertising and Promotions Managers	4	Bachelor's degree
11-2021	Marketing Managers	74	Bachelor's degree
11-2022	Sales Managers	44	Bachelor's degree
11-2030	Public Relations and Fundraising Managers	29	Bachelor's degree
11-3010	Administrative Services and Facilities Managers	47	Bachelor's degree
11-3021	Computer and Information Systems Managers	123	Bachelor's degree
11-3031	Financial Managers	210	Bachelor's degree
11-3051	Industrial Production Managers	34	Bachelor's degree
11-3061	Purchasing Managers	16	Bachelor's degree
11-3071	Transportation, Storage, and Distribution Managers	26	High school diploma or equivalent
11-3111	Compensation and Benefits Managers	4	Bachelor's degree
11-3121	Human Resources Managers	35	Bachelor's degree
11-3131	Training and Development Managers	7	Bachelor's degree
11-9021	Construction Managers	80	Bachelor's degree
11-9031	Education Administrators, Preschool and Childcare Center/Program	20	Bachelor's degree
11-9032	Education Administrators, Elementary and Secondary School	78	Master's degree
11-9033	Education Administrators, Postsecondary	61	Master's degree
11-9039	Education Administrators, All Other	7	Bachelor's degree
11-9041	Architectural and Engineering Managers	30	Bachelor's degree
11-9051	Food Service Managers	117	High school diploma or equivalent
11-9081	Lodging Managers	24	High school diploma or equivalent
11-9111	Medical and Health Services Managers	208	Bachelor's degree
11-9121	Natural Sciences Managers	5	Bachelor's degree
11-9131	Postmasters and Mail Superintendents	2	High school diploma or equivalent
11-9141	Property, Real Estate, and Community Association Managers	100	High school diploma or equivalent



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11-9151	Social and Community Service Managers	51	Bachelor's degree
11-9161	Emergency Management Directors	7	Bachelor's degree
11-9198	Personal Service Managers; Entertainment & Recreation Managers, Except Gambling; and Managers, All Other	84	Bachelor's degree
13-0000	Business and Financial Operations Occupations	3,534	Expand for details
13-1020	Buyers and Purchasing Agents	125	Bachelor's degree
13-1031	Claims Adjusters, Examiners, and Investigators	86	High school diploma or equivalent
13-1032	Insurance Appraisers, Auto Damage	2	Postsecondary non-degree award
13-1041	Compliance Officers	75	Bachelor's degree
13-1051	Cost Estimators	47	Bachelor's degree
13-1071	Human Resources Specialists	249	Bachelor's degree
13-1075	Labor Relations Specialists	56	Bachelor's degree
13-1081	Logisticians	71	Bachelor's degree
13-1111	Management Analysts	503	Bachelor's degree
13-1121	Meeting, Convention, and Event Planners	59	Bachelor's degree
13-1131	Fundraisers	102	Bachelor's degree
13-1141	Compensation, Benefits, and Job Analysis Specialists	29	Bachelor's degree
13-1151	Training and Development Specialists	89	Bachelor's degree
13-1161	Market Research Analysts and Marketing Specialists	370	Bachelor's degree
13-1198	Project Management Specialists and Business Operations Specialists, All Other	475	Bachelor's degree
13-2011	Accountants and Auditors	574	Bachelor's degree
13-2020	Property Appraisers and Assessors	27	Bachelor's degree
13-2052	Personal Financial Advisors	125	Bachelor's degree
13-2053	Insurance Underwriters	29	Bachelor's degree
13-2061	Financial Examiners	59	Bachelor's degree
13-2071	Credit Counselors	10	Bachelor's degree
13-2072	Loan Officers	92	Bachelor's degree
13-2081	Tax Examiners and Collectors, and Revenue Agents	36	Bachelor's degree
13-2082	Tax Preparers	55	High school diploma or equivalent



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SOC	Title	Projected Annual Openings	Typical Education Required
13-2098	Financial and Investment Analysts, Financial Risk Specialists, and Financial Specialists, All Other	162	Bachelor's degree
15-0000	Computer and Mathematical Occupations	1,489	Expand for details
15-1211	Computer Systems Analysts	193	Bachelor's degree
15-1212	Information Security Analysts	47	Bachelor's degree
15-1221	Computer and Information Research Scientists	39	Master's degree
15-1231	Computer Network Support Specialists	96	Associate's degree
15-1232	Computer User Support Specialists	172	Some college, no degree
15-1244	Network and Computer Systems Administrators	93	Bachelor's degree
15-1245	Database Administrators and Architects	43	Bachelor's degree
15-1251	Computer Programmers	71	Bachelor's degree
15-1256	Software Developers and Software Quality Assurance Analysts and Testers	414	Bachelor's degree
15-1257	Web Developers and Digital Interface Designers	67	Bachelor's degree
15-2011	Actuaries	5	Bachelor's degree
15-2031	Operations Research Analysts	39	Bachelor's degree
15-2098	Data Scientists and Mathematical Science Occupations, All Other	30	Bachelor's degree
17-0000	Architecture and Engineering Occupations	700	Expand for details
17-1011	Architects, Except Landscape and Naval	36	Bachelor's degree
17-1021	Cartographers and Photogrammetrists	4	Bachelor's degree
17-2011	Aerospace Engineers	2	Bachelor's degree
17-2031	Biomedical Engineers	4	Bachelor's degree
17-2041	Chemical Engineers	3	Bachelor's degree
17-2051	Civil Engineers	87	Bachelor's degree
17-2061	Computer Hardware Engineers	42	Bachelor's degree
17-2071	Electrical Engineers	40	Bachelor's degree
17-2072	Electronics Engineers, Except Computer	73	Bachelor's degree
17-2081	Environmental Engineers	25	Bachelor's degree
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	11	Bachelor's degree
17-2112	Industrial Engineers	72	Bachelor's degree



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17-2131	Materials Engineers	2	Bachelor's degree
17-2141	Mechanical Engineers	81	Bachelor's degree
17-2199	Engineers, All Other	48	Bachelor's degree
17-3011	Architectural and Civil Drafters	28	Associate's degree
17-3012	Electrical and Electronics Drafters	5	Associate's degree
17-3013	Mechanical Drafters	5	Associate's degree
17-3019	Drafters, All Other	2	Associate's degree
17-3022	Civil Engineering Technicians	22	Associate's degree
17-3023	Electrical and Electronics Engineering Technicians	41	Associate's degree
17-3026	Industrial Engineering Technicians	20	Associate's degree
17-3027	Mechanical Engineering Technicians	2	Associate's degree
17-3031	Surveying and Mapping Technicians	11	High school diploma or equivalent
17-3098	Calibration and Engineering Technologists and Technicians, Except Drafters, All Other	16	Associate's degree
19-0000	Life, Physical, and Social Science Occupations	384	Expand for details
19-1021	Biochemists and Biophysicists	3	Doctoral or professional degree
19-1023	Zoologists and Wildlife Biologists	10	Bachelor's degree
19-1029	Biological Scientists, All Other	5	Bachelor's degree
19-1031	Conservation Scientists	2	Bachelor's degree
19-1032	Foresters	2	Bachelor's degree
19-1042	Medical Scientists, Except Epidemiologists	37	Doctoral or professional degree
19-1099	Life Scientists, All Other	5	Bachelor's degree
19-2012	Physicists	6	Doctoral or professional degree
19-2031	Chemists	32	Bachelor's degree
19-2041	Environmental Scientists and Specialists, Including Health	37	Bachelor's degree
19-2042	Geoscientists, Except Hydrologists and Geographers	11	Bachelor's degree
19-2099	Physical Scientists, All Other	3	Bachelor's degree
19-3031	Clinical, Counseling, and School Psychologists	44	Doctoral or professional degree
19-3039	Psychologists, All Other	37	Master's degree



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19-3051	Urban and Regional Planners	14	Master's degree
19-4021	Biological Technicians	4	Bachelor's degree
19-4031	Chemical Technicians	40	Associate's degree
19-4042	Environmental Science and Protection Technicians, Including Health	4	Associate's degree
19-4061	Social Science Research Assistants	6	Bachelor's degree
19-4092	Forensic Science Technicians	4	Bachelor's degree
19-4099	Life, Physical, and Social Science Technicians, All Other	17	Associate's degree
19-5011	Occupational Health and Safety Specialists	10	Bachelor's degree
19-5012	Occupational Health and Safety Technicians	6	High school diploma or equivalent
21-0000	Community and Social Service Occupations	1,106	Expand for details
21-1012	Educational, Guidance, School, and Vocational Counselors	97	Master's degree
21-1015	Rehabilitation Counselors	41	Master's degree
21-1018	Substance Abuse, Behavioral Disorder, and Mental Health Counselors	82	Bachelor's degree
21-1019	Counselors, All Other	13	Master's degree
21-1021	Child, Family, and School Social Workers	196	Bachelor's degree
21-1022	Healthcare Social Workers	75	Master's degree
21-1023	Mental Health and Substance Abuse Social Workers	54	Master's degree
21-1029	Social Workers, All Other	13	Bachelor's degree
21-1091	Health Educators	18	Bachelor's degree
21-1093	Social and Human Service Assistants	373	High school diploma or equivalent
21-1094	Community Health Workers	32	High school diploma or equivalent
21-1099	Community and Social Service Specialists, All Other	28	Bachelor's degree
21-2021	Directors, Religious Activities and Education	17	Bachelor's degree
21-2099	Religious Workers, All Other	4	Bachelor's degree
23-0000	Legal Occupations	482	Expand for details
23-1011	Lawyers	224	Doctoral or professional degree
23-1022	Arbitrators, Mediators, and Conciliators	3	Bachelor's degree
23-1023	Judges, Magistrate Judges, and Magistrates	6	Doctoral or professional degree



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23-2011	Paralegals and Legal Assistants	174	Associate's degree
25-0000	Education, Training, and Library Occupations	3,130	Expand for details
25-1011	Business Teachers, Postsecondary	41	Doctoral or professional degree
25-1021	Computer Science Teachers, Postsecondary	17	Doctoral or professional degree
25-1022	Mathematical Science Teachers, Postsecondary	23	Doctoral or professional degree
25-1031	Architecture Teachers, Postsecondary	8	Doctoral or professional degree
25-1042	Biological Science Teachers, Postsecondary	18	Doctoral or professional degree
25-1052	Chemistry Teachers, Postsecondary	8	Doctoral or professional degree
25-1054	Physics Teachers, Postsecondary	9	Doctoral or professional degree
25-1063	Economics Teachers, Postsecondary	10	Doctoral or professional degree
25-1065	Political Science Teachers, Postsecondary	9	Doctoral or professional degree
25-1066	Psychology Teachers, Postsecondary	15	Doctoral or professional degree
25-1069	Social Sciences Teachers, Postsecondary, All Other	13	Doctoral or professional degree
25-1071	Health Specialties Teachers, Postsecondary	47	Doctoral or professional degree
25-1072	Nursing Instructors and Teachers, Postsecondary	37	Doctoral or professional degree
25-1081	Education Teachers, Postsecondary	30	Doctoral or professional degree
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	9	Doctoral or professional degree
25-1113	Social Work Teachers, Postsecondary	8	Doctoral or professional degree
25-1121	Art, Drama, and Music Teachers, Postsecondary	41	Master's degree
25-1122	Communications Teachers, Postsecondary	10	Doctoral or professional degree
25-1123	English Language and Literature Teachers, Postsecondary	30	Doctoral or professional degree
25-1124	Foreign Language and Literature Teachers, Postsecondary	16	Doctoral or professional degree
25-1125	History Teachers, Postsecondary	18	Doctoral or professional degree
25-1126	Philosophy and Religion Teachers, Postsecondary	15	Doctoral or professional degree
25-1194	Vocational Education Teachers, Postsecondary	10	Bachelor's degree
25-2011	Preschool Teachers, Except Special Education	158	Associate's degree
25-2012	Kindergarten Teachers, Except Special Education	30	Bachelor's degree
25-2021	Elementary School Teachers, Except Special Education	294	Bachelor's degree



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25-2022	Middle School Teachers, Except Special and Career/Technical Education	118	Bachelor's degree
25-2031	Secondary School Teachers, Except Special and Career/Technical Education	305	Bachelor's degree
25-2032	Career/Technical Education Teachers, Secondary School	8	Bachelor's degree
25-2052	Special Education Teachers, Kindergarten and Elementary School	37	Bachelor's degree
25-2057	Special Education Teachers, Middle School	16	Bachelor's degree
25-2058	Special Education Teachers, Secondary School	31	Bachelor's degree
25-2059	Special Education Teachers, All Other	24	Bachelor's degree
25-3011	Adult Basic and Secondary Education and Literacy Teachers and Instructors	5	Bachelor's degree
25-3021	Self-Enrichment Education Teachers	135	High school diploma or equivalent
25-3031	Substitute Teachers, Short-Term	294	Bachelor's degree
25-3097	Teachers and Instructors, All Other, Except Substitute Teachers	306	Bachelor's degree
25-4011	Archivists	9	Master's degree
25-4012	Curators	18	Master's degree
25-4013	Museum Technicians and Conservators	25	Bachelor's degree
25-4022	Librarians and Media Collections Specialists	67	Master's degree
25-4031	Library Technicians	15	Postsecondary non-degree award
25-9031	Instructional Coordinators	92	Master's degree
25-9045	Teaching Assistants, Except Postsecondary	377	Some college, no degree
25-9099	Education, Training, and Library Workers, All Other	113	Bachelor's degree
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations	1,141	Expand for details
27-1011	Art Directors	21	Bachelor's degree
27-1013	Fine Artists, Including Painters, Sculptors, and Illustrators	11	Bachelor's degree
27-1021	Commercial and Industrial Designers	46	Bachelor's degree
27-1022	Fashion Designers	7	Bachelor's degree
27-1024	Graphic Designers	127	Bachelor's degree
27-1025	Interior Designers	47	Bachelor's degree
27-1026	Merchandise Displayers and Window Trimmers	67	High school diploma or equivalent
27-1027	Set and Exhibit Designers	4	Bachelor's degree



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27-1029	Designers, All Other	19	Bachelor's degree
27-2012	Producers and Directors	25	Bachelor's degree
27-2022	Coaches and Scouts	212	Bachelor's degree
27-2041	Music Directors and Composers	11	Bachelor's degree
27-2042	Musicians and Singers	54	No formal educational credential
27-2090	Miscellaneous Entertainers and Performers, Sports and Related Workers	18	No formal educational credential
27-3011	Radio and Television Announcers	5	Bachelor's degree
27-3023	News Analysts, Reporters, and Journalists	11	Bachelor's degree
27-3031	Public Relations Specialists	123	Bachelor's degree
27-3041	Editors	23	Bachelor's degree
27-3042	Technical Writers	29	Bachelor's degree
27-3043	Writers and Authors	54	Bachelor's degree
27-3091	Interpreters and Translators	22	Bachelor's degree
27-4011	Audio and Video Equipment Technicians	16	Postsecondary non-degree award
27-4012	Broadcast Technicians	6	Associate's degree
27-4021	Photographers	91	High school diploma or equivalent
27-4031	Camera Operators, Television, Video, and Motion Picture	6	Bachelor's degree
27-4098	Lighting Technicians and Media and Communication Equipment Workers, All Other	2	High school diploma or equivalent
29-0000	Healthcare Practitioners and Technical Occupations	2,242	Expand for details
29-1011	Chiropractors	6	Doctoral or professional degree
29-1021	Dentists, General	18	Doctoral or professional degree
29-1031	Dietitians and Nutritionists	28	Bachelor's degree
29-1051	Pharmacists	59	Doctoral or professional degree
29-1071	Physician Assistants	41	Master's degree
29-1081	Podiatrists	7	Doctoral or professional degree
29-1122	Occupational Therapists	37	Master's degree
29-1123	Physical Therapists	62	Doctoral or professional degree
29-1125	Recreational Therapists	1	Bachelor's degree



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29-1126	Respiratory Therapists	26	Associate's degree
29-1127	Speech-Language Pathologists	41	Master's degree
29-1128	Exercise Physiologists	8	Bachelor's degree
29-1129	Therapists, All Other	57	Bachelor's degree
29-1131	Veterinarians	20	Doctoral or professional degree
29-1141	Registered Nurses	741	Bachelor's degree
29-1161	Nurse Midwives	4	Master's degree
29-1171	Nurse Practitioners	80	Master's degree
29-1215	Family Medicine Physicians	6	Doctoral or professional degree
29-1216	General Internal Medicine Physicians	24	Doctoral or professional degree
29-1218	Obstetricians and Gynecologists	3	Doctoral or professional degree
29-1221	Pediatricians, General	6	Doctoral or professional degree
29-1223	Psychiatrists	9	Doctoral or professional degree
29-1228	Physicians, All Other; and Ophthalmologists, Except Pediatric	74	Doctoral or professional degree
29-1292	Dental Hygienists	64	Associate's degree
29-1298	Acupuncturists and Healthcare Diagnosing or Treating Practitioners, All Other	30	Master's degree
29-2010	Clinical Laboratory Technologists and Technicians	71	Bachelor's degree
29-2031	Cardiovascular Technologists and Technicians	13	Associate's degree
29-2032	Diagnostic Medical Sonographers	20	Associate's degree
29-2033	Nuclear Medicine Technologists	4	Associate's degree
29-2034	Radiologic Technologists	60	Associate's degree
29-2035	Magnetic Resonance Imaging Technologists	14	Associate's degree
29-2040	Emergency Medical Technicians and Paramedics	50	Postsecondary non-degree award
29-2051	Dietetic Technicians	5	Associate's degree
29-2052	Pharmacy Technicians	163	High school diploma or equivalent
29-2053	Psychiatric Technicians	26	Postsecondary non-degree award
29-2055	Surgical Technologists	15	Postsecondary non-degree award
29-2056	Veterinary Technologists and Technicians	46	Associate's degree



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29-2057	Ophthalmic Medical Technicians	6	Postsecondary non-degree award
29-2061	Licensed Practical and Licensed Vocational Nurses	104	Postsecondary non-degree award
29-2081	Opticians, Dispensing	16	High school diploma or equivalent
29-2098	Medical Dosimetrists, Medical Records Specialists, and Health Technologists and Technicians, All Other	77	Postsecondary non-degree award
29-9098	Health Information Technologists, Medical Registrars, Surgical Assistants, & Healthcare Practitioners, AO	49	Postsecondary non-degree award
31-0000	Healthcare Support Occupations	3,537	Expand for details
31-1120	Home Health and Personal Care Aides	1,220	High school diploma or equivalent
31-1131	Nursing Assistants	1,258	Postsecondary non-degree award
31-2011	Occupational Therapy Assistants	45	Associate's degree
31-2021	Physical Therapist Assistants	56	Associate's degree
31-9011	Massage Therapists	54	Postsecondary non-degree award
31-9091	Dental Assistants	90	Postsecondary non-degree award
31-9092	Medical Assistants	377	Postsecondary non-degree award
31-9093	Medical Equipment Preparers	37	High school diploma or equivalent
31-9094	Medical Transcriptionists	22	Postsecondary non-degree award
31-9097	Phlebotomists	120	Postsecondary non-degree award
31-9099	Healthcare Support Workers, All Other	88	High school diploma or equivalent
33-0000	Protective Service Occupations	1,657	Expand for details
33-1012	First-Line Supervisors of Police and Detectives	53	High school diploma or equivalent
33-1021	First-Line Supervisors of Fire Fighting and Prevention Workers	49	Postsecondary non-degree award
33-2011	Firefighters	122	Postsecondary non-degree award
33-3012	Correctional Officers and Jailers	90	High school diploma or equivalent
33-3021	Detectives and Criminal Investigators	27	High school diploma or equivalent
33-3041	Parking Enforcement Workers	2	High school diploma or equivalent
33-3051	Police and Sheriff's Patrol Officers	166	High school diploma or equivalent
33-9021	Private Detectives and Investigators	9	High school diploma or equivalent
33-9032	Security Guards	465	High school diploma or equivalent
33-9091	Crossing Guards	75	No formal educational credential



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33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	110	No formal educational credential
33-9093	Transportation Security Screeners	13	High school diploma or equivalent
33-9098	School Bus Monitors and Protective Service Workers, All Other	411	High school diploma or equivalent
35-0000	Food Preparation and Serving Related Occupations	8,728	Expand for details
35-1011	Chefs and Head Cooks	49	High school diploma or equivalent
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	558	High school diploma or equivalent
35-2011	Cooks, Fast Food	650	No formal educational credential
35-2012	Cooks, Institution and Cafeteria	172	No formal educational credential
35-2013	Cooks, Private Household	9	Postsecondary non-degree award
35-2014	Cooks, Restaurant	922	No formal educational credential
35-2021	Food Preparation Workers	610	No formal educational credential
35-3011	Bartenders	685	No formal educational credential
35-3023	Fast Food and Counter Workers	1,894	No formal educational credential
35-3031	Waiters and Waitresses	1,766	No formal educational credential
35-3041	Food Servers, Nonrestaurant	234	No formal educational credential
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	423	No formal educational credential
35-9021	Dishwashers	318	No formal educational credential
37-0000	Building and Grounds Cleaning and Maintenance Occupations	2,940	Expand for details
37-1011	First-Line Supervisors of Housekeeping and Janitorial Workers	165	High school diploma or equivalent
37-1012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	110	High school diploma or equivalent
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	991	No formal educational credential
37-2012	Maids and Housekeeping Cleaners	810	No formal educational credential
37-2021	Pest Control Workers	44	High school diploma or equivalent
37-3011	Landscaping and Groundskeeping Workers	789	No formal educational credential
39-0000	Personal Care and Service Occupations	2,327	Expand for details
39-1013	First-Line Supervisors of Gambling Services Workers	15	High school diploma or equivalent
39-1098	First-Line Supervisors of Personal Service & Entertainment and Recreation Workers, Exc Gambling Services	109	High school diploma or equivalent
39-3031	Ushers, Lobby Attendants, and Ticket Takers	45	No formal educational credential



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39-3091	Amusement and Recreation Attendants	298	No formal educational credential
39-4031	Morticians, Undertakers, and Funeral Directors	22	Associate's degree
39-5012	Hairdressers, Hairstylists, and Cosmetologists	380	Postsecondary non-degree award
39-5092	Manicurists and Pedicurists	68	Postsecondary non-degree award
39-5094	Skincare Specialists	55	Postsecondary non-degree award
39-7010	Tour and Travel Guides	38	High school diploma or equivalent
39-9011	Childcare Workers	405	High school diploma or equivalent
39-9031	Fitness Trainers and Aerobics Instructors	234	High school diploma or equivalent
39-9032	Recreation Workers	183	High school diploma or equivalent
39-9041	Residential Advisors	79	High school diploma or equivalent
39-9098	Crematory Operators and Personal Care and Service Workers, All Other	1	High school diploma or equivalent
41-0000	Sales and Related Occupations	6,638	Expand for details
41-1011	First-Line Supervisors of Retail Sales Workers	548	High school diploma or equivalent
41-1012	First-Line Supervisors of Non-Retail Sales Workers	133	High school diploma or equivalent
41-2011	Cashiers	2,292	No formal educational credential
41-2021	Counter and Rental Clerks	131	No formal educational credential
41-2031	Retail Salespersons	1,757	No formal educational credential
41-3011	Advertising Sales Agents	54	High school diploma or equivalent
41-3021	Insurance Sales Agents	225	High school diploma or equivalent
41-3031	Securities, Commodities, and Financial Services Sales Agents	195	Bachelor's degree
41-3041	Travel Agents	59	High school diploma or equivalent
41-3091	Sales Representatives of Services, Except Advertising, Insurance, Financial Services, and Travel	311	High school diploma or equivalent
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	101	Bachelor's degree
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	583	High school diploma or equivalent
41-9041	Telemarketers	28	No formal educational credential
41-9099	Sales and Related Workers, All Other	17	High school diploma or equivalent
43-0000	Office and Administrative Support Occupations	6,710	Expand for details
43-1011	First-Line Supervisors of Office and Administrative Support Workers	378	High school diploma or equivalent



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43-2021	Telephone Operators	4	High school diploma or equivalent
43-3011	Bill and Account Collectors	35	High school diploma or equivalent
43-3021	Billing and Posting Clerks	201	High school diploma or equivalent
43-3031	Bookkeeping, Accounting, and Auditing Clerks	670	Some college, no degree
43-3051	Payroll and Timekeeping Clerks	43	High school diploma or equivalent
43-3061	Procurement Clerks	27	High school diploma or equivalent
43-3071	Tellers	82	High school diploma or equivalent
43-4021	Correspondence Clerks	3	High school diploma or equivalent
43-4031	Court, Municipal, and License Clerks	88	High school diploma or equivalent
43-4041	Credit Authorizers, Checkers, and Clerks	4	High school diploma or equivalent
43-4051	Customer Service Representatives	1,107	High school diploma or equivalent
43-4061	Eligibility Interviewers, Government Programs	55	High school diploma or equivalent
43-4071	File Clerks	29	High school diploma or equivalent
43-4081	Hotel, Motel, and Resort Desk Clerks	121	High school diploma or equivalent
43-4111	Interviewers, Except Eligibility and Loan	49	High school diploma or equivalent
43-4121	Library Assistants, Clerical	82	High school diploma or equivalent
43-4131	Loan Interviewers and Clerks	90	High school diploma or equivalent
43-4151	Order Clerks	9	Some college, no degree
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	52	Associate's degree
43-4171	Receptionists and Information Clerks	556	High school diploma or equivalent
43-4181	Reservation and Transportation Ticket Agents and Travel Clerks	19	High school diploma or equivalent
43-4199	Information and Record Clerks, All Other	26	High school diploma or equivalent
43-5011	Cargo and Freight Agents	21	High school diploma or equivalent
43-5021	Couriers and Messengers	68	High school diploma or equivalent
43-5031	Police, Fire, and Ambulance Dispatchers	36	High school diploma or equivalent
43-5032	Dispatchers, Except Police, Fire, and Ambulance	47	High school diploma or equivalent
43-5041	Meter Readers, Utilities	5	High school diploma or equivalent
43-5051	Postal Service Clerks	19	High school diploma or equivalent



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SOC	Title	Projected Annual Openings	Typical Education Required
43-5052	Postal Service Mail Carriers	73	High school diploma or equivalent
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	43	High school diploma or equivalent
43-5061	Production, Planning, and Expediting Clerks	85	High school diploma or equivalent
43-5071	Shipping, Receiving, and Traffic Clerks	243	High school diploma or equivalent
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	24	High school diploma or equivalent
43-6011	Executive Secretaries and Executive Administrative Assistants	57	High school diploma or equivalent
43-6012	Legal Secretaries	84	High school diploma or equivalent
43-6013	Medical Secretaries	207	High school diploma or equivalent
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	549	High school diploma or equivalent
43-9021	Data Entry Keyers	40	High school diploma or equivalent
43-9022	Word Processors and Typists	15	High school diploma or equivalent
43-9041	Insurance Claims and Policy Processing Clerks	82	High school diploma or equivalent
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	30	High school diploma or equivalent
43-9061	Office Clerks, General	1,107	High school diploma or equivalent
43-9071	Office Machine Operators, Except Computer	4	High school diploma or equivalent
43-9199	Office and Administrative Support Workers, All Other	39	High school diploma or equivalent
45-0000	Farming, Fishing, and Forestry Occupations	136	Expand for details
45-1011	First-Line Supervisors of Farming, Fishing, and Forestry Workers	8	High school diploma or equivalent
45-2041	Graders and Sorters, Agricultural Products	1	No formal educational credential
45-2093	Farmworkers, Farm, Ranch, and Aquacultural Animals	23	No formal educational credential
45-4022	Logging Equipment Operators	1	High school diploma or equivalent
47-0000	Construction and Extraction Occupations	2,471	Expand for details
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	212	High school diploma or equivalent
47-2021	Brickmasons and Blockmasons	19	High school diploma or equivalent
47-2031	Carpenters	411	High school diploma or equivalent
47-2051	Cement Masons and Concrete Finishers	35	No formal educational credential
47-2061	Construction Laborers	497	No formal educational credential
47-2071	Paving, Surfacing, and Tamping Equipment Operators	34	High school diploma or equivalent



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SOC	Title	Projected Annual Openings	Typical Education Required
47-2073	Operating Engineers and Other Construction Equipment Operators	65	High school diploma or equivalent
47-2081	Drywall and Ceiling Tile Installers	59	No formal educational credential
47-2111	Electricians	317	High school diploma or equivalent
47-2131	Insulation Workers, Floor, Ceiling, and Wall	5	No formal educational credential
47-2141	Painters, Construction and Maintenance	157	No formal educational credential
47-2151	Pipelayers	2	No formal educational credential
47-2152	Plumbers, Pipefitters, and Steamfitters	190	High school diploma or equivalent
47-2181	Roofers	41	No formal educational credential
47-2211	Sheet Metal Workers	81	High school diploma or equivalent
47-4011	Construction and Building Inspectors	35	High school diploma or equivalent
47-4041	Hazardous Materials Removal Workers	24	High school diploma or equivalent
47-4051	Highway Maintenance Workers	68	High school diploma or equivalent
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	31	High school diploma or equivalent
47-4090	Miscellaneous Construction and Related Workers	6	High school diploma or equivalent
47-5022	Excavating and Loading Machine and Dragline Operators, Surface Mining	4	High school diploma or equivalent
49-0000	Installation, Maintenance, and Repair Occupations	1,897	Expand for details
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	120	High school diploma or equivalent
49-2011	Computer, Automated Teller, and Office Machine Repairers	35	Some college, no degree
49-2021	Radio, Cellular, and Tower Equipment Installers and Repairers	11	Associate's degree
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	109	Postsecondary non-degree award
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	3	Postsecondary non-degree award
49-2097	Electronic Home Entertainment Equipment Installers and Repairers	21	Postsecondary non-degree award
49-2098	Security and Fire Alarm Systems Installers	31	High school diploma or equivalent
49-3011	Aircraft Mechanics and Service Technicians	27	Postsecondary non-degree award
49-3021	Automotive Body and Related Repairers	92	High school diploma or equivalent
49-3023	Automotive Service Technicians and Mechanics	306	Postsecondary non-degree award
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	40	High school diploma or equivalent
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	21	High school diploma or equivalent



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SOC	Title	Projected Annual Openings	Typical Education Required
49-3051	Motorboat Mechanics and Service Technicians	39	High school diploma or equivalent
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	24	High school diploma or equivalent
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	34	High school diploma or equivalent
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	158	Postsecondary non-degree award
49-9041	Industrial Machinery Mechanics	102	High school diploma or equivalent
49-9043	Maintenance Workers, Machinery	10	High school diploma or equivalent
49-9051	Electrical Power-Line Installers and Repairers	20	High school diploma or equivalent
49-9052	Telecommunications Line Installers and Repairers	29	High school diploma or equivalent
49-9062	Medical Equipment Repairers	29	Associate's degree
49-9071	Maintenance and Repair Workers, General	496	High school diploma or equivalent
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	13	High school diploma or equivalent
49-9094	Locksmiths and Safe Repairers	10	High school diploma or equivalent
49-9096	Riggers	13	High school diploma or equivalent
49-9099	Installation, Maintenance, and Repair Workers, All Other	20	High school diploma or equivalent
51-0000	Production Occupations	3,230	Expand for details
51-1011	First-Line Supervisors of Production and Operating Workers	235	High school diploma or equivalent
51-2028	Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	136	High school diploma or equivalent
51-2051	Fiberglass Laminators and Fabricators	34	High school diploma or equivalent
51-2090	Miscellaneous Assemblers and Fabricators	204	High school diploma or equivalent
51-3011	Bakers	246	No formal educational credential
51-3021	Butchers and Meat Cutters	54	No formal educational credential
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	59	No formal educational credential
51-3092	Food Batchmakers	25	High school diploma or equivalent
51-3093	Food Cooking Machine Operators and Tenders	11	High school diploma or equivalent
51-3099	Food Processing Workers, All Other	3	No formal educational credential
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	26	High school diploma or equivalent
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	38	High school diploma or equivalent
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	23	High school diploma or equivalent



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SOC	Title	Projected Annual Openings	Typical Education Required
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	2	High school diploma or equivalent
51-4041	Machinists	140	High school diploma or equivalent
51-4051	Metal-Refining Furnace Operators and Tenders	5	High school diploma or equivalent
51-4061	Model Makers, Metal and Plastic	3	High school diploma or equivalent
51-4071	Foundry Mold and Coremakers	3	High school diploma or equivalent
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	43	High school diploma or equivalent
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	50	High school diploma or equivalent
51-4111	Tool and Die Makers	23	Postsecondary non-degree award
51-4121	Welders, Cutters, Solderers, and Brazers	198	High school diploma or equivalent
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	12	High school diploma or equivalent
51-4192	Layout Workers, Metal and Plastic	4	High school diploma or equivalent
51-4193	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	21	High school diploma or equivalent
51-4199	Metal Workers and Plastic Workers, All Other	6	High school diploma or equivalent
51-5111	Prepress Technicians and Workers	11	Postsecondary non-degree award
51-5112	Printing Press Operators	53	High school diploma or equivalent
51-5113	Print Binding and Finishing Workers	25	High school diploma or equivalent
51-6011	Laundry and Dry-Cleaning Workers	185	No formal educational credential
51-6031	Sewing Machine Operators	63	No formal educational credential
51-6061	Textile Bleaching and Dyeing Machine Operators and Tenders	23	High school diploma or equivalent
51-6062	Textile Cutting Machine Setters, Operators, and Tenders	8	High school diploma or equivalent
51-6064	Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders	30	High school diploma or equivalent
51-6093	Upholsterers	9	High school diploma or equivalent
51-6099	Textile, Apparel, and Furnishings Workers, All Other	4	High school diploma or equivalent
51-7011	Cabinetmakers and Bench Carpenters	34	High school diploma or equivalent
51-7021	Furniture Finishers	8	High school diploma or equivalent
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	19	High school diploma or equivalent
51-8013	Power Plant Operators	7	High school diploma or equivalent
51-8021	Stationary Engineers and Boiler Operators	17	High school diploma or equivalent



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SOC	Title	Projected Annual Openings	Typical Education Required
51-8031	Water and Wastewater Treatment Plant and System Operators	28	High school diploma or equivalent
51-9011	Chemical Equipment Operators and Tenders	27	High school diploma or equivalent
51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	12	High school diploma or equivalent
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	2	High school diploma or equivalent
51-9022	Grinding and Polishing Workers, Hand	18	No formal educational credential
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	39	High school diploma or equivalent
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	9	High school diploma or equivalent
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	7	High school diploma or equivalent
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	179	High school diploma or equivalent
51-9071	Jewelers and Precious Stone and Metal Workers	129	High school diploma or equivalent
51-9082	Medical Appliance Technicians	12	High school diploma or equivalent
51-9083	Ophthalmic Laboratory Technicians	26	High school diploma or equivalent
51-9111	Packaging and Filling Machine Operators and Tenders	75	High school diploma or equivalent
51-9123	Painting, Coating, and Decorating Workers	15	No formal educational credential
51-9124	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	49	High school diploma or equivalent
51-9161	Computer Numerically Controlled Tool Operators	27	High school diploma or equivalent
51-9162	Computer Numerically Controlled Tool Programmers	17	Postsecondary non-degree award
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	17	High school diploma or equivalent
51-9196	Paper Goods Machine Setters, Operators, and Tenders	32	High school diploma or equivalent
51-9198	Helpers--Production Workers	138	High school diploma or equivalent
51-9199	Production Workers, All Other	20	High school diploma or equivalent
53-0000	Transportation and Material Moving Occupations	4,687	Expand for details
53-2011	Airline Pilots, Copilots, and Flight Engineers	4	Bachelor's degree
53-3031	Driver/Sales Workers	276	High school diploma or equivalent
53-3032	Heavy and Tractor-Trailer Truck Drivers	527	Postsecondary non-degree award
53-3033	Light Truck or Delivery Services Drivers	460	High school diploma or equivalent
53-3052	Bus Drivers, Transit and Intercity	17	High school diploma or equivalent
53-3058	Passenger Vehicle Drivers, Except Bus Drivers, Transit and Intercity	398	No formal educational credential



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53-5011	Sailors and Marine Oilers	16	No formal educational credential
53-5021	Captains, Mates, and Pilots of Water Vessels	19	Postsecondary non-degree award
53-5031	Ship Engineers	4	Postsecondary non-degree award
53-6021	Parking Lot Attendants	114	No formal educational credential
53-6051	Transportation Inspectors	3	High school diploma or equivalent
53-6098	Aircraft Service Attendants and Transportation Workers, All Other	11	High school diploma or equivalent
53-7021	Crane and Tower Operators	24	High school diploma or equivalent
53-7051	Industrial Truck and Tractor Operators	69	No formal educational credential
53-7061	Cleaners of Vehicles and Equipment	91	No formal educational credential
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	1,216	No formal educational credential
53-7063	Machine Feeders and Offbearers	21	No formal educational credential
53-7064	Packers and Packagers, Hand	207	No formal educational credential
53-7065	Stockers and Order Fillers	899	High school diploma or equivalent
53-7081	Refuse and Recyclable Material Collectors	93	No formal educational credential

Source: RI Labor Market Information (RI Employment Projections 2020 - 2030)