



# Jackson Career Explorer (JCE)

Julie Aitken Schermer, Ph.D., Robyn MacDougall, M.A., &  
Douglas N. Jackson, Ph.D.

## Occupations Guide

American Edition



*Advancing the Science of Human Assessment since 1967.*



Copyright © 2017 by SIGMA Assessment Systems, Inc. All rights reserved. May not be reproduced in whole or in part in any form or by any means without written permission of SIGMA Assessment Systems, Inc.

Printed in Canada. Version 2.0.1



## Contents

Introduction .....	1
<i>Table 1: The 30 JCE Job Groups</i> .....	1
Structure of this Guide .....	1
Job Group Description .....	2
High Basic Interests .....	2
Low Basic Interests .....	2
Sample Job Titles .....	2
Suggested Readings .....	2
"Professional Associations" .....	2
How to use this Guide .....	2
When should I use this Guide? .....	2
How can I use this Guide to assist with interpretation of JCE results? .....	2
What should I do if a Job Group is ranked unexpectedly high? .....	3
What should I do if a Job Group is ranked unexpectedly low? .....	3
Medical Diagnosis & Treatment Occupations .....	4
Sales & Business Development .....	7
Protective Services & Public Safety .....	10
Information Technology & Computers .....	15
Communications & Writing .....	18
Financial & Business Services .....	20
Mathematics .....	23
Law & Government .....	25
Health Services .....	28
Career & Guidance Counseling .....	32
Engineering & Technical Support .....	34
Social Science & Research .....	38
Human Resources .....	41
Physical Science & Research .....	43
Construction .....	46
Social Service & Mental Health .....	50
Nature, Agriculture & Environment .....	53
Physical Health & Recreation .....	57
Merchandising & Marketing .....	60

# EXPLORE YOUR FUTURE

---



Entertainment.....	62
Teaching & Instruction .....	65
Music.....	68
Commercial Art & Design .....	70
Fine Art.....	73
Service & Hospitality.....	76
Life Science & Research .....	80
Clerical & Administrative Support.....	83
Management & Administration .....	87
Machining & Mechanical Trades.....	90
Primary Education.....	96



## Introduction

The Jackson Career Explorer (JCE) provides the key to a wealth of occupational information. It generates this information based on a thorough assessment of an individual’s career interests. These interests, known as the Basic Interests, are outlined in the first section of the JCE report. The individual’s interests are then compared to those of people working in a wide variety of occupations. The JCE report ranks the similarity between each respondent’s interests and those of people working in 30 Job Groups and presents detailed occupational information for each of the respondent’s *top three* Job Groups.

This guide is a helpful resource for counselors and practitioners because it expands upon the top three job groups outlined in the individual’s report, by providing detailed information for all 30 JCE job groups. See Table 1 for a list of all 30 Job Groups.

**Table 1: The 30 JCE Job Groups**

1.	Medical Diagnosis & Treatment	16.	Social Service & Mental Health
2.	Sales & Business Development	17.	Nature, Agriculture, & Environment
3.	Protective Services & Public Safety	18.	Physical Health & Recreation
4.	Information Technology & Computers	19.	Merchandising & Marketing
5.	Communications & Writing	20.	Entertainment
6.	Financial & Business Services	21.	Teaching & Instruction
7.	Mathematics	22.	Music
8.	Law & Government	23.	Commercial Art & Design
9.	Health Services	24.	Fine Art
10.	Career & Guidance Counseling	25.	Service & Hospitality
11.	Engineering & Technical Support	26.	Life Science & Research
12.	Social Science & Research	27.	Clerical & Administrative Support
13.	Mediation & Persuasion	28.	Management & Administration
14.	Physical Science & Research	29.	Machining & Mechanical Trades
15.	Construction	30.	Primary Education

The JCE report provides a comprehensive list of sample jobs from O\*NET for each of the 30 Job Groups to help direct career seekers and explorers toward jobs that match their interests. Individuals are encouraged to explore jobs that match their interests and to conduct further self-assessment activities to determine compatibility of their abilities, values, personality, and other factors.

### Structure of this Guide

This guide provides detailed information for each of the 30 Job Groups. This information is grouped into sections, which are described on the following pages, along with helpful instructions on how to make the most of the contents of this guide.

## Job Group Description

A detailed description of each Job Group is presented, and includes information on specific job roles, responsibilities, and requirements for success, as well as training and education guidelines, and a reference to research further on O\*NET.

### High Basic Interests

This chart lists the JCE Basic Interests that are strong areas of interest for those people who are currently occupied in the job group. Use this section to identify areas of interest that the respondent shares with people occupied in the job group.

### Low Basic Interests

This chart lists the JCE Basic Interests that are low areas of interest for those people who are currently occupied in the job group. Use this section to identify areas of low interest that the respondent shares with people occupied in the group.

### Sample Job Titles

This section lists a comprehensive collection of job titles and their corresponding O\*NET codes. Use the O\*NET codes to look up additional information on the *Occupational Information Network* website. The sample jobs are listed according to required education or training level. In addition, the associated Work Personality code for each job is provided to help individuals narrow down their job search.

### "Professional Associations"

This section lists professional organizations and trade associations for each job group. Professional associations can be valuable sources of information for career exploration, as they often provide industry-specific career resources as well as information on certification, education and training, professional development, scholarship opportunities, market trends, current events, and local contacts.

## How to use this Guide

### When should I use this Guide?

This guide can be particularly useful in circumstances where an individual receives high scores on more than 3 Job Groups. The extended information in this guide will allow you to research information on these additional Job Groups. Furthermore, you may wish to use this guide to reference information on a specific Job Group in cases where the individual indicates that he or she is seriously considering a career that is not included in his or her top 3 Job Groups.

### How can I use this Guide to assist with interpretation of JCE results?

This guide allows you to identify areas of high and low interest that the individual shares with people employed in each of the 30 Job Groups. In cases where a Job Group is ranked unexpectedly high or low, it is important to keep in mind that the ranking is based on a comparison between the individual's *entire profile* of Basic Interests and the interest profiles of people employed in each Job Group. As a result, a high score on one Basic Interest will not always translate into a high-ranking on a corresponding Job Group. For example, an individual



who scores high on the *Law* Basic Interest could still receive a neutral score for the *Law and Government* Job Group. This is because, although the individual reported an interest in the typical job-related activities of lawyers, his or her entire profile of interests does not appear to match that of lawyers and those working in related occupations.

### **What should I do if a Job Group is ranked unexpectedly high?**

Compare the individual's Basic Interest profile (in the JCE report) with the High Basic Interest and Low Basic Interest charts (in this Guide) for the Job Group in question. The charts will highlight the high and low interests of people employed in this Job Group. You will probably see similarities between the individual's profile and the charts. You may be able to reinforce the match by looking up some of the sample jobs associated with this Job Group in *O\*NET*. You may find that the individual had not considered those jobs before. The Professional Associations and the Exploring My Options sections of the JCE Report can provide further guidance in determining fit with a particular Job Group.

### **What should I do if a Job Group is ranked unexpectedly low?**

Again, compare the individual's Basic Interest profile (in the JCE report) with the High Basic Interest and Low Basic Interest charts (in this Guide) for the Job Group in question. The charts will highlight the high and low interests of people employed in this Job Group. You will probably see differences between the individual's profile and the charts. You will likely find that the individual is not interested in one or more important facets of that Job Group. Discuss the impact of this lack of interest with the individual, and whether the areas in which he or she lacks interest could significantly impact his or her satisfaction with that career choice. The Professional Associations and the Exploring My Options sections of the JCE Report can provide further guidance in determining fit with a particular Job Group.





## Medical Diagnosis & Treatment Occupations

Occupations in **Medical Diagnosis & Treatment** include various branches of medicine that are highly focused on the prevention, diagnosis, and medical or surgical treatment of illness, disease, and disorders. Responsibilities may include examining patients, ordering, performing and interpreting diagnostic tests, prescribing medication or other therapies and treatments, and counseling patients on diet, hygiene and preventative healthcare. Occupations in this group require a high level of medical education. To learn more about the occupations that make up this job group, search the complete O\*NET listings at [www.onetonline.org](http://www.onetonline.org).

High Basic Interest Scales
Medical Service
Life Science
Physical Science
Nature-Agriculture
Engineering

Low Basic Interest Scales
Business
Sales

### Job Titles from O\*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O\*NET code and the Work Personality (WP) code associated with the job, if available, are included.

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
13-1041.06	Coroner	Inq, Pr, Co
29-1141.01	Acute Care Nurse	He, Inq, Pr
29-2099.07	Surgical Assistant	Co, He, Pr

Bachelor's Degree		
O*NET Code	Job Title	WP Code
17-2031	Biomedical Engineer	Lo, Inq, Pr

Graduate Degree		
O*NET Code	Job Title	WP Code
15-2041.01	Biostatistician	Lo, Inq, Co
29-1061	Anesthesiologist	Inq, Pr, He
29-1062	Family & General Practitioner	Inq, Lo, He
29-1063	Internist, General	Inq, Lo, He
29-1064	Obstetrician & Gynecologist	Inq, Lo, He
29-1065	Pediatrician, General	Inq, Lo, He





Graduate Degree		
O*NET Code	Job Title	WP Code
29-1066	Psychiatrist	Inq, Lo, He
29-1067	Surgeon	Inq, Lo, Pr
29-1069.01	Allergist & Immunologist	Inq, Lo, He
29-1069.02	Dermatologist	Inq, Lo, He
29-1069.03	Hospitalist	He, Inq, Lo
29-1069.04	Neurologist	Inq, Lo, He
29-1069.05	Nuclear Medicine Physician	Inq, Lo, He
29-1069.06	Ophthalmologist	Inq, Lo, He
29-1069.07	Pathologist	Inq, Lo, Pr
29-1069.08	Physical Medicine & Rehabilitation Physician	Inq, Lo, He
29-1069.09	Preventive Medicine Physician	He, Inq, Lo
29-1069.10	Radiologist	Inq, Lo, Pr
29-1069.11	Sports Medicine Physician	Inq, He, Pr
29-1069.12	Urologist	Inq, Lo, He
29-1071	Physician Assistant	He, Inq, Pr
29-1071.01	Anesthesiologist Assistant	Pr, He, Lo
29-1081	Podiatrist	Inq, Lo, He
29-1141.02	Advanced Practice Psychiatric Nurse	He, Inq, Lo
29-1151	Nurse Anesthetist	Inq, Pr, He
29-1171	Nurse Practitioner	He, Inq, Pr
29-1199.04	Naturopathic Physician	Inq, Lo, He
29-1199.05	Orthoptist	Inq, He, Pr

## Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> <li><b>American Academy of Family Physicians</b> <a href="http://www.aafp.org">www.aafp.org</a></li> </ul>	<ul style="list-style-type: none"> <li><b>American Academy of Nurse Practitioners</b> <a href="http://www.aanp.org">www.aanp.org</a></li> </ul>
<ul style="list-style-type: none"> <li><b>American Academy of Pediatrics</b> <a href="http://www.aap.org">www.aap.org</a></li> </ul>	<ul style="list-style-type: none"> <li><b>American Association of Naturopathic Physicians</b> <a href="http://www.naturopathic.org">www.naturopathic.org</a></li> </ul>
<ul style="list-style-type: none"> <li><b>American College of Physicians</b> <a href="http://www.acponline.org">www.acponline.org</a></li> </ul>	<ul style="list-style-type: none"> <li><b>American College of Radiology</b> <a href="http://www.acr.org">www.acr.org</a></li> </ul>
<ul style="list-style-type: none"> <li><b>American Medical Association</b> <a href="http://www.ama-assn.org">www.ama-assn.org</a></li> </ul>	<ul style="list-style-type: none"> <li><b>American Medical Student Association</b> <a href="http://www.amsa.org">www.amsa.org</a></li> </ul>

# EXPLORE YOUR FUTURE



Professional Organizations	
<ul style="list-style-type: none"><li>• <b>American Podiatric Medical Association</b> <i>www.apma.org</i></li></ul>	<ul style="list-style-type: none"><li>• <b>American Psychiatric Association</b> <i>www.psychiatry.org/</i></li></ul>
<ul style="list-style-type: none"><li>• <b>American Society for Clinical Pathology</b> <i>www.ascp.org</i></li></ul>	<ul style="list-style-type: none"><li>• <b>American Society of Anesthesiologists</b> <i>www.asahq.org</i></li></ul>
<ul style="list-style-type: none"><li>• <b>American Society of General Surgeons</b> <i>http://theasgs.org/</i></li></ul>	<ul style="list-style-type: none"><li>• <b>American Surgical Association</b> <i>www.americansurgical.info</i></li></ul>
<ul style="list-style-type: none"><li>• <b>National Association of Medical Examiners</b> <i>www.thename.org</i></li></ul>	

## Notes

---

---

---

---

---

---

---

---



## Sales & Business Development

Occupations in **Sales & Business Development** cover a broad range of products and services, and might involve selling investments, insurance, real estate, advertising, or specific products and services. Jobs could involve telemarketing, customer service, retail sales, product demonstration, marketing, and advertising. Most sales work involves having a good understanding of the product or services and customer service skills. Look for sales work involving your other interests as well. On-the-job training is often provided but some employers require post-secondary education. To learn more about the occupations that make up this job group, search the complete O\*NET listings at [www.onetonline.org](http://www.onetonline.org).

High Basic Interest Scales
Sales
Finance
Business
Consulting
Supervising Others

Low Basic Interest Scales
Physical Science
Life Science
Nature-Agriculture

### Job Titles from O\*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O\*NET code and the Work Personality (WP) code associated with the job, if available, are included.

Minimal Education		
O*NET Code	Job Title	WP Code
41-2011	Cashier	Co, St, En
41-2021	Counter & Rental Clerk	Co, St, En

High School Diploma		
O*NET Code	Job Title	WP Code
41-1011	First-Line Supervisor of Retail Sales Workers	En, As, Co
41-2012	Gaming Change Person & Booth Cashier	Co, St, En
41-2022	Parts Salesperson	En, As, Co
41-2031	Retail Salesperson	En, As, Co
41-9011	Demonstrator & Product Promoter	En, As, Co
41-9041	Telemarketer	En, Co
41-9091	Door-To-Door Sales Worker, News & Street Vendor, & Related Workers	En, As, Co
43-4051	Customer Service Representative	En, He, Co



Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
41-3011	Advertising Sales Agent	En, As, Co
41-3031.02	Sales Agent, Financial Services	En, As, Co
41-3041	Travel Agent	En, As, Co
41-4011.07	Solar Sales Representative & Assessor	En, Co, Pr
41-9022	Real Estate Sales Agent	En, As, Co

Bachelor's Degree		
O*NET Code	Job Title	WP Code
11-2022	Sales Manager	En, As, Co
11-9141	Property, Real Estate, & Community Association Manager	En, As, Co
13-1131.00	Fundraiser	En, Co, Ex
15-1199.10	Search Marketing Strategist	En, Inq, Co
41-1012	First-Line Supervisor of Non-Retail Sales Workers	En, As, Co
41-3021	Insurance Sales Agent	En, As, Co
41-3031.01	Sales Agent, Securities & Commodities	En, As, Co
41-3031.03	Securities & Commodities Trader	En, As, Co
41-3099.01	Energy Broker	En, As, Co
41-4011	Sales Representative, Wholesale & Manufacturing, Technical & Scientific Products	En, As, Co
41-4012	Sales Representative, Wholesale & Manufacturing	Co, En, As
41-9021	Real Estate Broker	En, As, Co
41-9031	Sales Engineer	En, Pr, Lo

## Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> <li><b>American Advertising Federation</b> <a href="http://www.aaf.org">www.aaf.org</a></li> </ul>	<ul style="list-style-type: none"> <li><b>American Marketing Association</b> <a href="http://www.ama.org">www.ama.org</a></li> </ul>
<ul style="list-style-type: none"> <li><b>American Sales Association</b> <a href="http://www.asa-sales.org">www.asa-sales.org</a></li> </ul>	<ul style="list-style-type: none"> <li><b>American Society of Travel Agents</b> <a href="http://www.asta.org">www.asta.org</a></li> </ul>
<ul style="list-style-type: none"> <li><b>Business Professionals of America</b> <a href="http://www.bpa.org/">www.bpa.org/</a></li> </ul>	<ul style="list-style-type: none"> <li><b>Direct Selling Association</b> <a href="http://www.dsa.org">www.dsa.org</a></li> </ul>
<ul style="list-style-type: none"> <li><b>Entrepreneurs' Organization</b> <a href="http://www.eonetwork.org">www.eonetwork.org</a></li> </ul>	<ul style="list-style-type: none"> <li><b>National Association of Pharmaceutical Sales Professionals</b> <a href="http://www.napsronline.org/">www.napsronline.org/</a></li> </ul>



Professional Organizations	
<ul style="list-style-type: none"><li>• <b>National Association of Professional Insurance Agents</b> <i>www.pianet.com</i></li></ul>	<ul style="list-style-type: none"><li>• <b>National Association of Realtors</b> <i>www.nar.realtor/</i></li></ul>
<ul style="list-style-type: none"><li>• <b>National Association of Sales Professionals</b> <i>www.nasp.com</i></li></ul>	<ul style="list-style-type: none"><li>• <b>National Retail Federation</b> <i>https://nrf.com/</i></li></ul>
<ul style="list-style-type: none"><li>• <b>Sales &amp; Marketing Executives International</b> <i>www.smei.org</i></li></ul>	

## Notes

---

---

---

---

---

---

---

---

## Protective Services & Public Safety

Occupations in **Protective Services & Public Safety** involve protecting the public from accidents, injury, crime, and fire, and providing emergency services to people in need. Jobs in this area seek to ensure the health and safety of others by adhering to guidelines, laws and regulations. Responsibilities may include administering first aid, educating the public on fire and crime prevention or public and workplace safety, investigating crimes or accidents, or rescuing people from danger. Most jobs in this group require specialized training or education. To learn more about the occupations that make up this job group, search the complete O\*NET listings at [www.onetonline.org](http://www.onetonline.org).

High Basic Interest Scales
Adventure
Skilled Trades
Authoritarian Leadership
Engineering
Law

Low Basic Interest Scales
Teaching
Technical Writing
Mathematics
Performing Arts

### Job Titles from O\*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O\*NET code and the Work Personality (WP) code associated with the job, if available, are included.

Minimal Education		
O*NET Code	Job Title	WP Code
53-6011.00	Bridge & Lock Tender	Pr, Co, As

High School Diploma		
O*NET Code	Job Title	WP Code
33-2011.02	Forest Firefighter	Pr, He
33-3011	Bailiff	Pr, St, As
33-3012	Correctional Officer & Jailer	Pr, As, St
33-3041	Parking Enforcement Worker	Pr, Co, St
33-9011	Animal Control Worker	Pr, He, Co
33-9031	Gaming Surveillance Officer & Gaming Investigator	Pr, Co, St
33-9032	Security Guard	Pr, St, As
33-9091	Crossing Guard	He, En, Pr
33-9092	Lifeguard, Ski Patrol, & Other Recreational Protective Service Worker	Pr, He
33-9093	Transportation Security Screener	Pr, As, St
33-9099.02	Retail Loss Prevention Specialist	En, Co, St



High School Diploma		
O*NET Code	Job Title	WP Code
43-5031	Police, Fire, & Ambulance Dispatcher	Co, St, Pr
45-2011	Agricultural Inspector	Pr, Co, St
53-1011	Aircraft Cargo Handling Supervisor	En, Pr
53-1031	First-Line Supervisor of Transportation & Material-Moving Machine & Vehicle Operators	En, Co, Pr
53-3011	Ambulance Driver & Attendant, Except Emergency Medical Technician	Pr, He
53-3032	Heavy & Tractor-Trailer Truck Driver	Pr, Co
53-4012	Locomotive Firer	Pr, Co
53-4021	Railroad Brake, Signal, & Switch Operator	Pr, Co
53-4031	Railroad Conductor & Yardmaster	En, Pr, Co
53-5011	Sailor & Marine Oiler	Pr, Co
53-5021.02	Mate- Ship, Boat, & Barge	En, Pr, Co

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
13-1041.02	Licensing Examiner & Inspector	Co, St, En
13-1041.04	Government Property Inspector & Investigator	Co, En, Pr
13-1041.06	Coroner	Inq, Lo, Pr
27-4013	Radio Operator	Pr, Co, St
29-2041	Emergency Medical Technician & Paramedic	He, Inq, Pr
29-9012	Occupational Health & Safety Technician	Co, St, Pr
33-1011	First-Line Supervisor of Correctional Officers	En, As, Co
33-1012	First-Line Supervisor of Police & Detectives	En, As, Co
33-1021.01	Municipal Fire Fighting & Prevention Supervisor	En, As, Pr
33-1021.02	Forest Fire Fighting & Prevention Supervisor	En, As, Pr
33-2011.01	Municipal Firefighter	Pr, He
33-2021.01	Fire Inspector	Co, St, Pr
33-2021.02	Fire Investigator	Lo, Inq, Pr
33-2022	Forest Fire Inspector & Prevention Specialist	Pr, Co, St
33-3021.01	Police Detective	En, Inq, Lo
33-3021.02	Police Identification & Records Officer	Co, St, Pr
33-3021.03	Criminal Investigator & Special Agent	En, Inq, Lo
33-3021.05	Immigration & Customs Inspector	Co, En, As
33-3051.01	Police Patrol Officer	Pr, En, As
33-3051.03	Sheriff & Deputy Sheriff	En, As, Pr
33-3052	Transit & Railroad Police	Pr, As, St
33-9021	Private Detective & Investigator	En, As, Co





Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
49-2098	Security & Fire Alarm Systems Installer	Pr, Co, St
51-8012	Power Distributor & Dispatcher	Pr, Inq, Lo
53-2012	Commercial Pilot	Pr, Inf, En
53-2021	Air Traffic Controller	Pr, Lo, Inq
53-2022	Airfield Operations Specialist	En, Co, St
53-5021.01	Ship & Boat Captain	En, Pr
53-5021.03	Pilot, Ship	Pr, Co, Inf
53-6051.01	Aviation Inspector	Pr, Co, Lo

Bachelor's Degree		
O*NET Code	Job Title	WP Code
11-9161	Emergency Management Director	He, En, As
11-9199.07	Security Manager	En, Co
13-1199.02	Security Management Specialist	Pr, Lo, Inq
13-1199.04	Business Continuity Planner	En, Inq, Co
17-2111.01	Industrial Safety & Health Engineer	Lo, Inq, Co
17-2111.02	Fire-Prevention & Protection Engineer	Lo, Inq, Pr
17-2111.03	Product Safety Engineer	Lo, Inq, Pr
19-4092	Forensic Science Technician	Lo, Inq, Pr
21-1092	Probation Officer & Correctional Treatment Specialist	He, En, As
29-9011	Occupational Health & Safety Specialist	Inq, Lo, Co
33-3021.06	Intelligence Analyst	Inq, Co, En
33-3031	Fish & Game Warden	Pr, Inq, Lo
53-2011	Airline Pilot, Copilot, & Flight Engineer	Pr, Co, St
53-6051.08	Freight & Cargo Inspector	Pr, Co, St

Graduate Degree		
O*NET Code	Job Title	WP Code
25-1111	Criminal Justice & Law Enforcement Teacher, Postsecondary	He, Inq

Military Specific Training		
O*NET Code	Job Title	WP Code
55-1011	Air Crew Officer	
55-1012	Aircraft Launch & Recovery Officer	
55-1013	Amored Assult Vehicle Officer	



Military Specific Training		
O*NET Code	Job Title	WP Code
55-1014	Artillery & Missile Officer	
55-1015	Command & Control Center Officer	
55-1016	Infantry Officer	
55-1017	Special Forces Officer	
55-2011	First-Line Supervisor of Air Crew Members	
55-2012	First-Line Supervisor of Weapons Specialists/Crew Members	
55-3011	Air Crew Member	
55-3012	Aircraft Launch & Recovery Specialist	
55-3013	Armored Assault Vehicle Crew Member	
55-3014	Artillery & Missile Crew Member	
55-3015	Command & Control Center Specialist	
55-3016	Infantry	
55-3017	Radar & Sonar Technician	
55-3018	Special Forces	

## Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> <li>• <b>American Association for Justice</b> <a href="http://www.justice.org">www.justice.org</a></li> </ul>	<ul style="list-style-type: none"> <li>• <b>American Association of Safety Councils</b> <a href="http://safetycouncils.org">http://safetycouncils.org</a></li> </ul>
<ul style="list-style-type: none"> <li>• <b>American Correctional Association</b> <a href="http://www.aca.org">www.aca.org</a></li> </ul>	<ul style="list-style-type: none"> <li>• <b>American Probation &amp; Parole Association</b> <a href="http://www.appa-net.org">www.appa-net.org</a></li> </ul>
<ul style="list-style-type: none"> <li>• <b>ASIS International - American Society for Industrial Security</b> <a href="http://www.asisonline.org">www.asisonline.org</a></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Association of Public-Safety Communications Officials</b> <a href="http://www.apcointl.org/">www.apcointl.org/</a></li> </ul>
<ul style="list-style-type: none"> <li>• <b>Federal Bureau of Investigation</b> <a href="http://www.fbi.gov">www.fbi.gov</a></li> </ul>	<ul style="list-style-type: none"> <li>• <b>International Association of Fire Chiefs</b> <a href="http://www.iafc.org">www.iafc.org</a></li> </ul>
<ul style="list-style-type: none"> <li>• <b>International Police Association</b> <a href="http://www.ipa-usa.org">www.ipa-usa.org</a></li> </ul>	<ul style="list-style-type: none"> <li>• <b>National Association of Emergency Medical Technicians</b> <a href="http://www.naemt.org">www.naemt.org</a></li> </ul>
<ul style="list-style-type: none"> <li>• <b>National Guard Association of the United States</b> <a href="http://www.ngaus.org">www.ngaus.org</a></li> </ul>	<ul style="list-style-type: none"> <li>• <b>National Safety Council</b> <a href="http://www.nsc.org">www.nsc.org</a></li> </ul>
<ul style="list-style-type: none"> <li>• <b>U.S. Army</b> <a href="http://www.goarmy.com">www.goarmy.com</a></li> </ul>	<ul style="list-style-type: none"> <li>• <b>United States Lifesaving Association</b> <a href="http://www.usla.org">www.usla.org</a></li> </ul>
<ul style="list-style-type: none"> <li>• <b>United States Private Investigators Association</b> <a href="http://www.usinvestigate.com/">www.usinvestigate.com/</a></li> </ul>	

# EXPLORE YOUR FUTURE

---



## Notes

---

---

---

---

---

---

---

---



## Information Technology & Computers

Occupations in **Information Technology & Computers** involve working with computers, numbers, and formulas. There are a wide range of jobs in this group. Duties and responsibilities might include developing, programming, maintaining, and updating computer applications and software, designing and evaluating network systems, designing Internet websites, and providing computer-related technical support. Most jobs in this group require either a university degree in computer science or engineering, or a specialized college diploma. Computers play a role in almost every discipline, so look for computer-related occupations involving your other interests as well. To learn more about the occupations that make up this job group, search the complete O\*NET listings at [www.onetonline.org](http://www.onetonline.org).

High Basic Interest Scales
Mathematics
Engineering
Physical Science
Endurance
Skilled Trades

Low Basic Interest Scales
Social Service
Sales
Mediation & Persuasion

### Job Titles from O\*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O\*NET code and the Work Personality (WP) code associated with the job, if available, are included.

High School Diploma		
O*NET Code	Job Title	WP Code
49-9052	Telecommunications Line Installer & Repairer	Pr, En

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
15-1134	Web Developer	Co, Lo, Pr
15-1143.01	Telecommunications Engineering Specialist	Pr, En, Co
15-1151	Computer User Support Specialist	Pr, Lo, Inq
15-1199.03	Web Administrator	Co, En, Lo
27-4011	Audio & Video Equipment Technician	Pr, Lo, Co
43-9011	Computer Operator	Co, St, Pr
43-9031	Desktop Publisher	Ex, Lo, Co
49-2011	Computer, Automated Teller, & Office Machine Repairer	Pr, Co, St
49-2098	Security & Fire Alarm Systems Installer	Pr, Co, St
51-4012	Computer Numerically Controlled Machine Tool Programmer, Metal & Plastic	Co, Lo, Pr

# EXPLORE YOUR FUTURE



Bachelor's Degree		
O*NET Code	Job Title	WP Code
11-3021	Computer & Information Systems Manager	En, Co, Lo
15-1121	Computer Systems Analyst	Lo, Co, St
15-1121.01	Informatics Nurse Specialist	He, Inq, Lo
15-1122	Information Security Analyst	Co, St, Lo
15-1131	Computer Programmer	Lo, Inq, Co
15-1132	Software Developer, Applications	Lo, Pr, Co
15-1133	Software Developer, Systems Software	Lo, Co, Pr
15-1141	Database Administrator	Co, St, Lo
15-1142	Network & Computer Systems Administrator	Lo, Inq, Pr
15-1143	Computer Network Architect	Inq, Co, En
15-1152	Computer Network Support Specialist	Pr, En, Co
15-1199.01	Software Quality Assurance Engineer & Tester	Lo, Co, Pr
15-1199.02	Computer Systems Engineer/Architect	Lo, Inq, Pr
15-1199.04	Geospatial Information Scientist & Technologist	Lo, Inq, Pr
15-1199.05	Geographic Information Systems Technician	Lo, Inq, Pr
15-1199.06	Database Architect	Inq, Co, En
15-1199.07	Data Warehousing Specialist	Inq, Co
15-1199.08	Business Intelligence Analyst	Inq, En, Co
15-1199.09	Information Technology Project Manager	En, Co
15-1199.10	Search Marketing Strategist	En, Inq, Co
15-1199.11	Video Game Designer	Ex, En
15-1199.12	Document Management Specialist	Co
15-2041.02	Clinical Data Manager	Co, Lo, Inq
17-2061	Computer Hardware Engineer	Lo, Pr, Co
19-4099.03	Remote Sensing Technician	Pr, Lo, Co
25-9011	Audio-Visual & Multimedia Collections Specialist	Co, St, Pr

Graduate Degree		
O*NET Code	Job Title	WP Code
15-1111	Computer & Information Research Scientist	Lo, Pr, Co
19-2099.01	Remote Sensing Scientist & Technologist	Pr, Lo, Inq
25-1021	Computer Science Teacher, Postsecondary	He, Lo, Inq



## Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> <li>• <b>American Webmasters Association</b> <i>www.aawebmasters.com</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>ASPRS: The Imaging &amp; Geospatial Information Society</b> <i>www.asprs.org</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>Association for Computing Machinery</b> <i>www.acm.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Association of Information Technology Professionals</b> <i>www.aitp.org</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>CompTIA: Information Technology (IT) Industry &amp; Association</b> <i>www.comptia.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Computing Research Association</b> <i>http://cra.org</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>Entertainment Software Association</b> <i>www.theesa.com</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>IEEE Computer Society</b> <i>www.computer.org</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>Institute for Certification of Computing Professionals</b> <i>www.iccp.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>International Association of Information Technology Asset Managers</b> <i>http://iaitam.org/</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>Internet Society</b> <i>www.internetsociety.org/</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Network Professional Association</b> <i>www.npanet.org</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>Telecommunications Industry Association</b> <i>www.tiaonline.org</i></li> </ul>	

## Notes

---



---



---



---



---



---



---

## Communications & Writing

Occupations in **Communications & Writing** involve writing for many different contexts, including materials for editorial, informative, dramatic, technical, or creative purposes. Writing and communication is part of virtually every field and can involve reporting, editing, promoting, and interpreting ideas and facts in written form. For example, many careers in journalism, business, research, social service, and education require reports and written communications. Look for writing opportunities that involve your other interests. Many jobs require post-secondary education in communications, English, journalism, or a specific subject. To learn more about the occupations that make up this job group, search the complete O\*NET listings at [www.onetonline.org](http://www.onetonline.org).

High Basic Interest Scales
Author-Journalism
Technical Writing
Performing Arts
Independence
Social Science

Low Basic Interest Scales
Mathematics
Skilled Trades
Engineering
Job Security

### Job Titles from O\*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O\*NET code and the Work Personality (WP) code associated with the job, if available, are included.

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
51-5111	Prepress Technician & Worker	Pr, Co, St

Bachelor's Degree		
O*NET Code	Job Title	WP Code
11-2031	Public Relations & Fundraising Manager	En, As, Ex
27-3011	Radio & Television Announcer	Ex, En, As
27-3021	Broadcast News Analyst	Ex, Inf, He
27-3022	Reporter & Correspondent	Ex, En, Inq
27-3031	Public Relations Specialist	En, Ex, He
27-3041	Editor	Ex, En, Co
27-3042	Technical Writer	Inf, Ex, Inq
27-3043.04	Copy Writer	En, Ex, Inf
27-3043.05	Poet, Lyricist & Creative Writer	Ex, Inf, Inq
27-3091	Interpreter & Translator	Inf, Ex, He
43-9081	Proofreader & Copy Marker	Co, St, Inf





Graduate Degree		
O*NET Code	Job Title	WP Code
25-1122	Communications Teacher, Postsecondary	He, Inf, Ex
25-1123	English Language & Literature Teacher, Postsecondary	He, Inf, Ex
25-1124	Foreign Language & Literature Teacher, Postsecondary	He, Inf, Ex
25-1126	Philosophy & Religion Teacher, Postsecondary	He, Ex, Inq

## Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> <li><b>American Society of Journalists &amp; Authors</b> <i>http://asja.org</i></li> </ul>	<ul style="list-style-type: none"> <li><b>American Society of News Editors</b> <i>http://asne.org</i></li> </ul>
<ul style="list-style-type: none"> <li><b>American Translators Association</b> <i>www.atanet.org</i></li> </ul>	<ul style="list-style-type: none"> <li><b>Dramatists Guild of America</b> <i>www.dramatistsguild.com</i></li> </ul>
<ul style="list-style-type: none"> <li><b>National Association of Broadcasters</b> <i>www.nab.org</i></li> </ul>	<ul style="list-style-type: none"> <li><b>National Press Club</b> <i>www.press.org</i></li> </ul>
<ul style="list-style-type: none"> <li><b>National Writers Association</b> <i>www.nationalwriters.com</i></li> </ul>	<ul style="list-style-type: none"> <li><b>Poets &amp; Writers</b> <i>www.pw.org</i></li> </ul>
<ul style="list-style-type: none"> <li><b>Public Relations Society of America</b> <i>www.prsa.org</i></li> </ul>	<ul style="list-style-type: none"> <li><b>Society for Technical Communication</b> <i>www.stc.org</i></li> </ul>
<ul style="list-style-type: none"> <li><b>Society of Children's Book Writers &amp; Illustrators</b> <i>www.scbwi.org</i></li> </ul>	<ul style="list-style-type: none"> <li><b>Society of Professional Journalists</b> <i>www.spj.org</i></li> </ul>

## Notes

---



---



---



---



---



---



---



---



## Financial & Business Services

Occupations in **Financial & Business Services** involve maintaining, analyzing, and interpreting financial and business records, and working with institutions and the public regarding banking and financial planning. People working in this area may provide various advisory services, draft statements, keep record of billing collection and status of accounts, examine budget estimates, and prepare taxes. Many occupations in this group require post-secondary education in subjects such as accounting, commerce, economics, or business administration, although some provide training on the job. To learn more about the occupations that make up this job group, search the complete O\*NET listings at [www.onetonline.org](http://www.onetonline.org).

High Basic Interest Scales
Office Work
Finance
Business
Supervising Others
Law

Low Basic Interest Scales
Medical Service
Life Science
Creative Arts
Nature-Agriculture
Social Science
Adventure

### Job Titles from O\*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O\*NET code and the Work Personality (WP) code associated with the job, if available, are included.

High School Diploma		
O*NET Code	Job Title	WP Code
43-3011	Bill & Account Collector	Co, St, En
43-3021	Billing & Posting Clerk	Co, En, He
43-3021.01	Statement Clerk	Co, En, He
43-3021.02	Billing, Cost, & Rate Clerk	Co, St, En
43-3041.00	Gaming Cage Worker	St, En, Pr
43-3051	Payroll & Timekeeping Clerk	Co, St, En
43-3071	Teller	Co, St, En
43-9041.02	Insurance Policy Processing Clerk	Co, St, En

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
13-1031.02	Insurance Adjuster, Examiner & Investigator	Co, St, En
13-1032	Insurance Appraiser, Auto Damage	Co, Pr, En
13-2021.01	Assessor	Co, En, Lo
13-2072	Loan Officer	Co, En, He

# EXPLORE YOUR FUTURE



Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
13-2081	Tax Examiner & Collector, & Revenue Agent	Co, St, En
13-2082	Tax Preparer	Co, St, En
41-3031.02	Sales Agent, Financial Services	En, As, Co
43-3031	Bookkeeping, Accounting, & Auditing Clerk	Co, St, En
43-4011	Brokerage Clerk	Co, St, En
43-9041.01	Insurance Claims Clerk	Co, St, En

Bachelor's Degree		
O*NET Code	Job Title	WP Code
11-3031.02	Financial Manager, Branch or Department	En, As, Co
13-1023	Purchasing Agent	Co, En, As
13-1031.01	Claims Examiner, Property & Casualty Insurance	Co, St, En
13-1051	Cost Estimator	Co, St, En
13-1081.02	Logistics Analyst	Co, En, Lo
13-2011.01	Accountant	Co, St, En
13-2011.02	Auditor	Co, St, Lo
13-2021.02	Appraiser, Real Estate	En, Co, Pr
13-2031	Budget Analyst	Co, En, Lo
13-2041	Credit Analyst	Co, St, En
13-2051	Financial Analyst	Co, Lo, En
13-2052	Personal Financial Advisor	En, Co, He
13-2053	Insurance Underwriter	Co, En, Lo
13-2061	Financial Examiner	En, Co, St
13-2071	Credit Counselor	En, He, Co
13-2071.01	Loan Counselor	En, He, Co
13-2099.01	Financial Quantitative Analyst	Lo, Inq, Co
13-2099.02	Risk Management Specialist	Co, En, Lo
13-2099.03	Investment Underwriter	Co, En, As
13-2099.04	Fraud Examiner, Investigator & Analyst	En, Lo, Co
41-3031.01	Sales Agent, Securities & Commodities	En, As, Co
41-3031.03	Securities & Commodities Trader	En, As, Co

Graduate Degree		
O*NET Code	Job Title	WP Code
11-3031.01	Treasurer & Controller	Co, St, En
11-9199.03	Investment Fund Manager	En, As, Co
13-1111	Management Analyst	Lo, En, Co



## Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> <li><b>American Accounting Association</b> <i>http://aaahq.org</i></li> </ul>	<ul style="list-style-type: none"> <li><b>American Bankers Association</b> <i>www.aba.com</i></li> </ul>
<ul style="list-style-type: none"> <li><b>American Finance Association</b> <i>www.afajof.org</i></li> </ul>	<ul style="list-style-type: none"> <li><b>American Insurance Association</b> <i>www.aiadc.org</i></li> </ul>
<ul style="list-style-type: none"> <li><b>American Payroll Association</b> <i>www.americanpayroll.org</i></li> </ul>	<ul style="list-style-type: none"> <li><b>Association for Financial Professionals</b> <i>www.afponline.org</i></li> </ul>
<ul style="list-style-type: none"> <li><b>Association of Certified Fraud Examiners</b> <i>www.acfe.com</i></li> </ul>	<ul style="list-style-type: none"> <li><b>Association of Corporate Treasurers</b> <i>www.treasurers.org</i></li> </ul>
<ul style="list-style-type: none"> <li><b>Financial Executives International</b> <i>www.financialexecutives.org</i></li> </ul>	<ul style="list-style-type: none"> <li><b>Financial Management Association International</b> <i>www.fma.org</i></li> </ul>
<ul style="list-style-type: none"> <li><b>Institute of Internal Auditors North America</b> <i>https://na.theiia.org</i></li> </ul>	<ul style="list-style-type: none"> <li><b>Mortgage Bankers Association</b> <i>www.mba.org/</i></li> </ul>
<ul style="list-style-type: none"> <li><b>National Association of Credit Management</b> <i>http://nacm.org</i></li> </ul>	<ul style="list-style-type: none"> <li><b>National Association of Personal Financial Advisors</b> <i>www.napfa.org</i></li> </ul>
<ul style="list-style-type: none"> <li><b>Securities Industry &amp; Financial Markets Association</b> <i>www.sifma.org</i></li> </ul>	

## Notes

---



---



---



---



---



---



---



---

## Mathematics

Occupations in **Mathematics** involve working with numbers, formulas, research, and statistics. Applied work might combine with other fields such as the physical, life, or social sciences, engineering, computer programming, economics, financial services, and education. Tasks may include data analysis for research, determining statistical probability of risk, technical problem solving, and decision-making based on calculations. Jobs in this area require a high level of interest and ability in mathematics. Consider combining your interest in mathematics with your other career interests. To learn more about the occupations that make up this job group, search the complete O\*NET listings at [www.onetonline.org](http://www.onetonline.org).

High Basic Interest Scales
Mathematics
Physical Science
Engineering
Endurance
Life Science

Low Basic Interest Scales
Social Service
Mediation & Persuasion
Business
Sales

### Job Titles from O\*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O\*NET code and the Work Personality (WP) code associated with the job, if available, are included.

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
51-4012	Computer Numerically Controlled Machine Tool Programmer, Metal & Plastic	Co, Lo, Pr

Bachelor's Degree		
O*NET Code	Job Title	WP Code
11-3021	Computer & Information Systems Manager	En, Co, Lo
13-1081.02	Logistics Analyst	Co, En, Lo
13-2011.01	Accountant	Co, St, En
15-1132	Software Developer, Applications	Lo, Pr, Co
15-1133	Software Developer, Systems Software	Lo, Co, Pr
15-1199.08	Business Intelligence Analyst	Inq, En, Co
15-2011	Actuary	Co, Lo, En
15-2041.02	Clinical Data Manager	Co, Lo, Inq
15-2091	Mathematical Technician	Lo, Pr, Co
43-9111	Statistical Assistant	Co, St, Lo



Graduate Degree		
O*NET Code	Job Title	WP Code
15-1111	Computer & Information Research Scientist	Lo, Pr, Co
15-2021	Mathematician	Lo, Inq, Co
15-2031	Operations Research Analyst	Lo, Co, En
15-2041	Statistician	Co, Lo, Inq
15-2041.01	Biostatistician	Lo, Inq, Co
19-2099.01	Remote Sensing Scientist & Technologist	Pr, Lo, Inq
25-1022	Mathematical Science Teacher, Postsecondary	He, Lo, Inq

## Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> <li>• <b>American Academy of Actuaries</b> <i>www.actuary.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>American Economic Association</b> <i>www.aeaweb.org/</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>American Mathematical Society</b> <i>www.ams.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>American Statistical Association</b> <i>www.amstat.org</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>Association for Computing Machinery</b> <i>www.acm.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>IEEE Computer Society</b> <i>www.computer.org</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>Mathematical Association of America</b> <i>www.maa.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Society for Industrial &amp; Applied Mathematics</b> <i>www.siam.org</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>Society of Actuaries</b> <i>www.soa.org</i></li> </ul>	

## Notes

---



---



---



---



---



---



---



---

## Law & Government

Occupations in **Law & Government** involve legal and government services. Jobs and responsibilities might include legal representation of individuals, organizations, or government, preparation of legal documents, providing legal advice services, conducting research, developing laws, policies, and procedures, and ensuring compliance with regulations. Many jobs in this group require a university degree or specialized college diploma in legal studies. To learn more about the occupations that make up this job group, search the complete O\*NET listings at [www.onetonline.org](http://www.onetonline.org).

High Basic Interest Scales
Law
Mediation & Persuasion
Finance
Technical Writing
Supervising Others

Low Basic Interest Scales
Creative Arts
Skilled Trades
Family Activity

### Job Titles from O\*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O\*NET code and the Work Personality (WP) code associated with the job, if available, are included.

High School Diploma		
O*NET Code	Job Title	WP Code
33-3011	Bailiff	Pr, St, As
43-4031.01	Court Clerk	Co, En, Pr

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
13-1031.02	Insurance Adjuster, Examiner & Investigator	Co, St, En
13-1041.02	Licensing Examiner & Inspector	Co, St, En
13-1041.04	Government Property Inspector & Investigator	Co, En, Pr
23-2011	Paralegal & Legal Assistant	Co, Inq, En
23-2091	Court Reporter	Co, St, En
23-2093	Title Examiner, Abstractor, & Searcher	Co, En, Pr
43-4031.02	Municipal Clerk	Co, St, En
43-6012	Legal Secretary	Co, St, En





Bachelor's Degree		
O*NET Code	Job Title	WP Code
11-1031	Legislator	En, As, He
11-9199.01	Regulatory Affairs Manager	En, As, Co
11-9199.02	Compliance Manager	Co, En, Pr
11-9199.08	Loss Prevention Manager	En, Co, St
13-1031.01	Claims Examiner, Property & Casualty Insurance	Co, St, En
13-1041.01	Environmental Compliance Inspector	Co, Inq, Pr
13-1041.03	Equal Opportunity Representative & Officer	He, En, Co
13-1041.07	Regulatory Affairs Specialist	Co, En, As
19-4092	Forensic Science Technician	Lo, Inq, Pr
21-1092	Probation Officer & Correctional Treatment Specialist	He, En, As

Graduate Degree		
O*NET Code	Job Title	WP Code
19-2041.01	Climate Change Analyst	Inq, En
19-3094	Political Scientist	Inq, Inf, He
23-1011	Lawyer	En, As, Inq
23-1012	Judicial Law Clerk	Co, En, Inq
23-1021	Administrative Law Judge, Adjudicator, & Hearing Officer	En, Inq, He
23-1022	Arbitrator, Mediator, & Conciliator	He, En, As
23-1023	Judge, Magistrate Judge, & Magistrate	En, As, He
25-1065	Political Science Teacher, Postsecondary	He, En, Inf
25-1111	Criminal Justice & Law Enforcement Teacher, Postsecondary	He, Inq
25-1112	Law Teacher, Postsecondary	He, Inq, En

## Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> <li><b>American Alliance of Paralegals, Inc.</b> <a href="http://aapipara.org">http://aapipara.org</a></li> </ul>	<ul style="list-style-type: none"> <li><b>American Arbitration Association</b> <a href="http://www.adr.org">www.adr.org</a></li> </ul>
<ul style="list-style-type: none"> <li><b>American Association for Justice</b> <a href="http://www.justice.org">www.justice.org</a></li> </ul>	<ul style="list-style-type: none"> <li><b>American Association of Political Consultants</b> <a href="http://theaapc.org/">http://theaapc.org/</a></li> </ul>
<ul style="list-style-type: none"> <li><b>American Bar Association</b> <a href="http://www.americanbar.org">www.americanbar.org</a></li> </ul>	<ul style="list-style-type: none"> <li><b>American Judges Association</b> <a href="http://aja.ncsc.dni.us">http://aja.ncsc.dni.us</a></li> </ul>
<ul style="list-style-type: none"> <li><b>American Judicature Society</b> <a href="http://ajshawaii.org/">http://ajshawaii.org/</a></li> </ul>	<ul style="list-style-type: none"> <li><b>American Political Science Association</b> <a href="http://www.apsanet.org">www.apsanet.org</a></li> </ul>



Professional Organizations	
<ul style="list-style-type: none"><li>• <b>American Probation &amp; Parole Association</b> <i>www.appa-net.org</i></li></ul>	<ul style="list-style-type: none"><li>• <b>American Society for Public Administration</b> <i>www.aspanet.org</i></li></ul>
<ul style="list-style-type: none"><li>• <b>American Society of Criminology</b> <i>www.asc41.com</i></li></ul>	<ul style="list-style-type: none"><li>• <b>NALS The Association for Legal Professionals</b> <i>www.nals.org</i></li></ul>
<ul style="list-style-type: none"><li>• <b>National Association of Legal Assistants</b> <i>www.nala.org</i></li></ul>	<ul style="list-style-type: none"><li>• <b>National Court Reporters Association</b> <i>www.ncra.org</i></li></ul>
<ul style="list-style-type: none"><li>• <b>National District Attorneys Association</b> <i>www.ndaa.org</i></li></ul>	<ul style="list-style-type: none"><li>• <b>National Lawyers Association</b> <i>www.nla.org</i></li></ul>

## Notes

---

---

---

---

---

---

---

---

## Health Services

Occupations in **Health Services** cover a wide range of jobs that provide a variety of healthcare services. Job responsibilities may include assessing patients, providing special therapies, preparing medications, giving x-rays, conducting laboratory tests, operating medical tools and equipment, and using specialized knowledge and training to assist healthcare providers with specific medical treatments. Most of these jobs require specialized training and education. To learn more about the occupations that make up this job group, search the complete O\*NET listings at [www.onetonline.org](http://www.onetonline.org).

High Basic Interest Scales
Medical Service
Life Science
Nature-Agriculture
Family Activity

Low Basic Interest Scales
Author-Journalism
Law
Interpersonal Confidence

### Job Titles from O\*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O\*NET code and the Work Personality (WP) code associated with the job, if available, are included.

High School Diploma		
O*NET Code	Job Title	WP Code
29-2051	Dietetic Technician	He, Inq, Pr
31-1011	Home Health Aide	He, Pr
31-1013	Psychiatric Aide	He, Pr, Co
31-1014	Nursing Assistant	He, Co, Pr
31-1015	Orderly	Co, Pr, He
31-2022	Physical Therapist Aide	He, Pr
31-9093	Medical Equipment Preparer	Pr, Co, St
31-9095	Pharmacy Aide	Co, St, Pr
39-9021	Personal Care Aide	He, Pr, St

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
29-1124	Radiation Therapist	He, Pr, Co
29-1126	Respiratory Therapist	He, Inq, Pr
29-1141	Registered Nurse	He, Inq, Pr
29-1141.03	Critical Care Nurse	He, Inq, Pr
29-2012	Medical & Clinical Laboratory Technician	Pr, Inq, Co
29-2021	Dental Hygienist	He, Pr, Co



Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
29-2031	Cardiovascular Technologist & Technician	Pr, Inq, He
29-2032	Diagnostic Medical Sonographer	Inq, He, Pr
29-2033	Nuclear Medicine Technologist	Inq, Pr, He
29-2034	Radiologic Technologist	Pr, He
29-2035	Magnetic Resonance Imaging Technologist	Pr, Co, He
29-2041	Emergency Medical Technician & Paramedic	He, Inq, Pr
29-2052	Pharmacy Technician	Co, St, Pr
29-2053	Psychiatric Technician	He, En, Pr
29-2054	Respiratory Therapy Technician	He, Pr, Inq
29-2055	Surgical Technologist	Pr, He, Co
29-2056	Veterinary Technologist & Technician	Pr, Inq, Lo
29-2057	Ophthalmic Medical Technician	Co, He, Pr
29-2061	Licensed Practical & Licensed Vocational Nurse	He, Pr
29-2071	Medical Records & Health Information Technician	Co, St, En
29-2081	Optician, Dispensing	En,Co,Pr
29-2092	Hearing Aid Specialist	He, Inq, Pr
29-2099.01	Neurodiagnostic Technologist	Pr, Inq, Lo
29-2099.05	Ophthalmic Medical Technologist	Co, Pr, Inq
29-2099.06	Radiologic Technician	Pr, Co, He
31-2011	Occupational Therapy Assistant	He, Pr
31-2012	Occupational Therapy Aide	He, Pr
31-2021	Physical Therapist Assistant	He, Pr, Inq
31-9011	Massage Therapist	He, Pr
31-9091	Dental Assistant	Co, Pr, He
31-9092	Medical Assistant	He, Co, Pr
31-9094	Medical Transcriptionist	Co, St, Pr
31-9096	Veterinary Assistant & Laboratory Animal Caretaker	Pr, He, Inq
31-9097	Phlebotomist	Co, Pr, Inq
31-9099.01	Speech-Language Pathology Assistant	He, Co, St
31-9099.02	Endoscopy Technician	Pr, Inq, Co
43-6013	Medical Secretary	Co, St, He

Bachelor's Degree		
O*NET Code	Job Title	WP Code
15-1121.01	Informatics Nurse Specialist	He, Inq, Lo
21-1091	Health Educator	He, En
21-1094	Community Health Worker	He, Inq, En



Bachelor's Degree		
O*NET Code	Job Title	WP Code
29-1125	Recreational Therapist	He, Ex
29-1125.02	Music Therapist	He, Ex, Inq
29-2011	Medical & Clinical Laboratory Technologist	Inq, Pr, Co
29-2011.01	Cytogenetic Technologist	Inq, Pr, Co
29-9099.01	Midwife	He, Pr
43-4051.03	Patient Representative	He, En, As

Graduate Degree		
O*NET Code	Job Title	WP Code
11-9111	Medical & Health Service Manager	En, Co, He
25-1071	Health Specialities Teacher, Postsecondary	He, Inq, Lo
25-1072	Nursing Instructor & Teacher, Postsecondary	He, Inq, Lo
29-1011	Chiropractor	He, Inq, Pr
29-1021	Dentist, General	Inq, Pr, He
29-1022	Oral & Maxillofacial Surgeon	Pr, He, Inq
29-1023	Orthodontist	Inq, Pr, He
29-1024	Prosthodontist	Inq, Pr
29-1031	Dietitian & Nutritionist	Inq, Lo, He
29-1041	Optometrist	Inq, He, Pr
29-1051	Pharmacist	Inq, Co, He
29-1071	Physician Assistant	He, Inq, Pr
29-1122	Occupational Therapist	He, Inq, Lo
29-1123	Physical Therapist	He, Inq, Pr
29-1125.01	Art Therapist	He, Ex, Inq
29-1127	Speech-Language Pathologist	He, Inq, Ex
29-1128	Exercise Physiologist	He, Inq, Pr
29-1131	Veterinarian	Inq, Lo, Pr
29-1141.04	Clinical Nurse Specialist	En, He, St
29-1151	Nurse Anesthetist	Inq, Pr, He
29-1161	Nurse Midwife	He, Inq, Lo
29-1171	Nurse Practitioner	He, Inq, Pr
29-1181	Audiologist	Inq, Lo, He
29-1199.01	Acupuncturist	He, Pr, Inq
29-1199.05	Orthoptist	Inq, He, Pr
29-2091	Orthotist & Prosthetist	He, Pr, Inq
29-9092	Genetic Counselor	He, Inq, Lo



## Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> <li>• <b>Academy of Nutrition &amp; Dietetics</b> <i>www.eatright.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>American Association for Respiratory Care</b> <i>www.aarc.org</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>American Association of Medical Assistants</b> <i>www.aama-ntl.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>American Association of Pharmacy Technicians</b> <i>https://pharmacytechnician.com</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>American Chiropractic Association</b> <i>www.acatoday.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>American Dental Association</b> <i>www.ada.org/en</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>American Medical Technologists</b> <i>www.americanmedtech.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>American Nurses Association</b> <i>www.nursingworld.org</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>American Occupational Therapy Association</b> <i>www.aota.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>American Optometric Association</b> <i>www.aoa.org</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>American Pharmacists Association</b> <i>www.pharmacist.com</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>American Physical Therapy Association</b> <i>www.apta.org</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>American Speech-Language-Hearing Association</b> <i>www.asha.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>American Veterinary Medical Association</b> <i>www.avma.org</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>National Association of Emergency Medical Technicians</b> <i>www.naemt.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>National Association of Health Care Assistants</b> <i>https://nahcacareforce.org/</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>Society of Diagnostic Medical Sonography</b> <i>www.sdms.org</i></li> </ul>	

## Notes

---



---



---



---



---



---



---



## Career & Guidance Counseling

Occupations in **Career & Guidance Counseling** involve providing guidance to people as they make life transitions. Responsibilities may include sharing important career or education information and resources with clients to help them make personal decisions and future career plans. Some jobs may also involve helping others understand and overcome personal problems. Many occupations in this group require post-secondary training in psychology, sociology, social work, education, or the social services. To learn more about the occupations that make up this job group, search the complete O\*NET listings at [www.onetonline.org](http://www.onetonline.org).

High Basic Interest Scales
Teaching
Mediation & Persuasion
Social Service
Supervising Others
Consulting

Low Basic Interest Scales
Adventure
Creative Arts
Skilled Trades
Physical Science
Engineering

### Job Titles from O\*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O\*NET code and the Work Personality (WP) code associated with the job, if available, are included.

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
25-3021	Self-Enrichment Education Teacher	He, Ex, En
43-4061	Eligibility Interviewer, Government Programs	He, Co, En

Bachelor's Degree		
O*NET Code	Job Title	WP Code
13-1071	Human Resources Specialist	En, He, Co
13-1151	Training & Development Specialist	He, Ex, Co

Graduate Degree		
O*NET Code	Job Title	WP Code
19-3031.01	School Psychologist	Inq, Lo, He
19-3031.03	Counseling Psychologist	He, Inq, Ex
21-1012	Educational, Guidance, School, & Vocational Counselor	He
21-2011	Clergy	He, En, Ex





## Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"><li>• <b>American Counseling Association</b> <i>www.counseling.org</i></li></ul>	<ul style="list-style-type: none"><li>• <b>American Psychological Association</b> <i>www.apa.org</i></li></ul>
<ul style="list-style-type: none"><li>• <b>American School Counselor Association</b> <i>www.schoolcounselor.org</i></li></ul>	<ul style="list-style-type: none"><li>• <b>Association for Talent Development</b> <i>www.td.org/</i></li></ul>
<ul style="list-style-type: none"><li>• <b>Career Development Network</b> <i>www.careernetwork.org</i></li></ul>	<ul style="list-style-type: none"><li>• <b>National Career Development Association</b> <i>www.ncda.org</i></li></ul>
<ul style="list-style-type: none"><li>• <b>National Employment Counseling Association</b> <i>www.employmentcounseling.org</i></li></ul>	

## Notes

---

---

---

---

---

---

---

---

## Engineering & Technical Support

Occupations in **Engineering & Technical Support** focus on the application of the physical laws and principles of engineering to a variety of products, materials, structures, systems, and processes. Activities may involve designing roads and highway systems, researching solutions to environmental problems, developing computer hardware, consulting on health and safety practices, or supervising the manufacturing of electrical equipment. People working in this area generally have a high interest and ability in math and science. Occupations require a university degree or college diploma in a particular area of engineering, such as civil, electrical, mechanical, industrial, or environmental. To learn more about the occupations that make up this job group, search the complete O\*NET listings at [www.onetonline.org](http://www.onetonline.org).

High Basic Interest Scales
Engineering
Mathematics
Skilled Trades
Physical Science
Authoritarian Leadership

Low Basic Interest Scales
Social Service
Author-Journalism
Elementary Education

### Job Titles from O\*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O\*NET code and the Work Personality (WP) code associated with the job, if available, are included.

High School Diploma		
O*NET Code	Job Title	WP Code
17-3029.01	Non-Destructive Testing Specialist	Pr, Lo, Co

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
11-3051.06	Hydroelectric Production Manager	En, Co
17-3011.02	Civil Drafter	Pr, Co, Lo
17-3012.01	Electronic Drafter	St, Pr, Lo
17-3012.02	Electrical Drafter	Pr, Lo, Co
17-3013	Mechanical Drafter	Pr, Co, Lo
17-3022	Civil Engineering Technician	Pr, Co, Lo
17-3023.01	Electronics Engineering Technician	Pr, Lo, Inq
17-3023.03	Electrical Engineering Technician	Pr, Lo, Co
17-3024	Electro-Mechanical Technician	Pr, Lo, Co
17-3024.01	Robotics Technician	Pr, Lo, Inq
17-3026	Industrial Engineering Technician	Lo, Pr, Co
17-3027	Mechanical Engineering Technician	Pr, Lo, Inq



Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
17-3027.01	Automotive Engineering Technician	Pr, Inq, Co
17-3029.04	Electronics Engineering Technologist	Pr, Lo, Co
17-3029.07	Mechanical Engineering Technologist	Pr, Lo, Co
17-3029.08	Photonics Technician	Pr, Lo, Co
17-3029.09	Manufacturing Production Technician	Pr, Lo, Inq
17-3029.10	Fuel Cell Technician	Pr, Co, Inq
17-3029.11	Nanotechnology Engineering Technologist	Pr, Inq, Co
17-3029.12	Nanotechnology Engineering Technician	Pr, Co, Inq
17-3031.01	Surveying Technician	Pr, Co, St
17-3031.02	Mapping Technician	Co, St, Pr
19-4099.01	Quality Control Analyst	Co, Lo, Pr
27-4014	Sound Engineering Technician	Pr, Ex
51-8099.04	Hydroelectric Plant Technician	Pr, Co, Inf
53-6041	Traffic Technician	Pr, Lo, En

Bachelor's Degree		
O*NET Code	Job Title	WP Code
11-9199.10	Wind Energy Project Manager	En, Co, Inq
13-1081.01	Logistics Engineer	Lo, Co, Pr
15-1132	Software Developer, Applications	Lo, Pr, Co
15-1133	Software Developer, Systems Software	Lo, Co, Pr
15-1143	Computer Network Architect	Inq, Co, En
15-1199.01	Software Quality Assurance Engineer & Tester	Lo, Co, Pr
15-1199.02	Computer Systems Engineer/Architect	Lo, Inq, Pr
17-1011	Architect	Ex, Lo, Inq
17-1022	Surveyor	Pr, Co, Lo
17-1022.01	Geodetic Surveyor	Inq, Co, Pr
17-2011	Aerospace Engineer	Lo, Inq, Pr
17-2021	Agricultural Engineer	Lo, Pr, En
17-2031	Biomedical Engineer	Lo, Inq, Pr
17-2041	Chemical Engineer	Lo, Inq, Pr
17-2051	Civil Engineer	Pr, Lo, Co
17-2015.01	Transportation Engineer	Pr, Lo, Inq
17-2061	Computer Hardware Engineer	Lo, Pr, Co
17-2071	Electrical Engineer	Lo, Pr
17-2072	Electronics Engineer	Lo, Pr
17-2072.01	Radio Frequency Identification Device Specialist	Pr, Lo, Co



Bachelor's Degree		
O*NET Code	Job Title	WP Code
17-2081.01	Water/Wastewater Engineer	Inq, Pr, En
17-2111.01	Industrial Safety & Health Engineer	Lo, Inq, Co
17-2111.02	Fire-Prevention & Protection Engineer	Lo, Inq, Pr
17-2111.03	Product Safety Engineer	Lo, Inq, Pr
17-2112	Industrial Engineer	Lo, Co, En
17-2121.01	Marine Engineer	Lo, Inq, Pr
17-2121.02	Marine Architect	Inq, Pr, Ex
17-2131	Materials Engineer	Lo, Pr, En
17-2141	Mechanical Engineer	Lo, Pr, Co
17-2141.02	Automotive Engineer	Pr, Inq, Lo
17-2151	Mining & Geological Engineer, Including Mining Safety Engineer	Lo, Pr, En
17-2161	Nuclear Engineer	Lo, Pr, Co
17-2171	Petroleum Engineer	Lo, Pr, Co
17-2199.01	Biochemical Engineer	Lo, Inq, Pr
17-2199.02	Validation Engineer	Lo, Pr, Co
17-2199.03	Energy Engineer	Lo, Inq, Pr
17-2199.04	Manufacturing Engineer	Pr, Lo, Inq
17-2199.05	Mechatronics Engineer	Lo, Pr, Co
17-2199.07	Photonics Engineer	Lo, Pr, Co
17-2199.08	Robotics Engineer	Lo, Pr, Co
17-2199.10	Wind Energy Engineer	Pr, Inq, En
17-2199.11	Solar Energy Systems Engineer	Pr, Inq
17-3011.01	Architectural Drafter	Ex, Pr, Lo
17-3021	Aerospace Engineering & Operations Technician	Pr, Lo, Co
17-3025	Environmental Engineering Technician	Pr, Lo, Co
17-3029.02	Electrical Engineering Technologist	Pr, Lo, Co
17-3029.03	Electromechanical Engineering Technologist	Pr, Lo, Co
17-3029.05	Industrial Engineering Technologist	Lo, Pr, Co
17-3029.06	Manufacturing Engineering Technologist	Pr, Lo, Co
19-3099.01	Transportation Planner	Lo, Co, Pr

Graduate Degree		
O*NET Code	Job Title	WP Code
11-9041	Architectural & Engineering Manager	En, Pr, Lo
17-2081	Environmental Engineer	Lo, Pr, Co
17-2112.01	Human Factors Engineer & Ergonomist	Lo, Inq, Pr
17-2141.01	Fuel Cell Engineer	Pr, Inq, Lo
17-2199.06	Microsystems Engineer	Lo, Pr, Co



Graduate Degree		
O*NET Code	Job Title	WP Code
17-2199.09	Nanosystems Engineer	Inq, Pr, En
19-2099.01	Remote Sensing Scientist & Technologist	Pr, Lo, Inq
25-1032.00	Engineering Teacher, Postsecondary	He, Inq, Pr

## Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> <li><b>American Academy of Environmental Engineers &amp; Scientists</b> <a href="http://www.aaees.org/">www.aaees.org/</a></li> </ul>	<ul style="list-style-type: none"> <li><b>American Institute of Aeronautics &amp; Astronautics</b> <a href="http://www.aiaa.org">www.aiaa.org</a></li> </ul>
<ul style="list-style-type: none"> <li><b>American Institute of Architects</b> <a href="http://www.aia.org">www.aia.org</a></li> </ul>	<ul style="list-style-type: none"> <li><b>American Institute of Chemical Engineers</b> <a href="http://www.aiche.org">www.aiche.org</a></li> </ul>
<ul style="list-style-type: none"> <li><b>American Nuclear Society</b> <a href="http://www.ans.org">www.ans.org</a></li> </ul>	<ul style="list-style-type: none"> <li><b>American Society of Agricultural &amp; Biological Engineers</b> <a href="http://www.asabe.org">www.asabe.org</a></li> </ul>
<ul style="list-style-type: none"> <li><b>American Society of Certified Engineering Technicians</b> <a href="http://www.ascet.org">www.ascet.org</a></li> </ul>	<ul style="list-style-type: none"> <li><b>American Society of Civil Engineers</b> <a href="http://www.asce.org">www.asce.org</a></li> </ul>
<ul style="list-style-type: none"> <li><b>American Society of Mechanical Engineers</b> <a href="http://www.asme.org">www.asme.org</a></li> </ul>	<ul style="list-style-type: none"> <li><b>American Society of Safety Engineers</b> <a href="http://www.asse.org">www.asse.org</a></li> </ul>
<ul style="list-style-type: none"> <li><b>Biomedical Engineering Society</b> <a href="http://www.bmes.org">www.bmes.org</a></li> </ul>	<ul style="list-style-type: none"> <li><b>Institute of Electrical &amp; Electronic Engineers - USA</b> <a href="http://www.ieeeusa.org">www.ieeeusa.org</a></li> </ul>
<ul style="list-style-type: none"> <li><b>Institute of Industrial &amp; Systems Engineers</b> <a href="http://www.iise.org">www.iise.org</a></li> </ul>	<ul style="list-style-type: none"> <li><b>National Society of Professional Engineers</b> <a href="http://www.nspe.org">www.nspe.org</a></li> </ul>
<ul style="list-style-type: none"> <li><b>Society for Mining, Metallurgy &amp; Exploration</b> <a href="http://www.smenet.org">www.smenet.org</a></li> </ul>	<ul style="list-style-type: none"> <li><b>Society of Petroleum Engineers</b> <a href="http://www.spe.org">www.spe.org</a></li> </ul>
<ul style="list-style-type: none"> <li><b>The Minerals, Metals &amp; Materials Society</b> <a href="http://www.tms.org">www.tms.org</a></li> </ul>	

## Notes

---



---



---



---



---

## Social Science & Research

Occupations in **Social Science & Research** involve studying human society and social behavior through subjects such as psychology, sociology, anthropology, economics, political science, history, and geography. Jobs may involve collecting and analyzing data, searching archives, compiling information, researching, writing reports, studying trends, or examining artifacts. Social scientists work in a variety of settings, such as universities, government, and businesses and often conduct research in their chosen field. Most occupations in this group require a university or graduate degree. To learn more about the occupations that make up this job group, search the complete O\*NET listings at [www.onetonline.org](http://www.onetonline.org).

High Basic Interest Scales
Social Science
Author-Journalism
Technical Writing
Teaching
Independence

Low Basic Interest Scales
Skilled Trades
Family Activity
Personal Service

### Job Titles from O\*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O\*NET code and the Work Personality (WP) code associated with the job, if available, are included.

Bachelor's Degree		
O*NET Code	Job Title	WP Code
13-1161	Market Research Analyst & Marketing Specialist	Lo, En, Co
17-1021	Cartographer & Photogrammetrist	Pr, Lo, Co
19-3099.01	Transportation Planner	Lo, Co, Pr
19-4061	Social Science Research Assistant	Co, Inq, Lo
19-4061.01	City & Regional Planning Aide	Co, St, Pr
19-4099.03	Remote Sensing Technician	Pr, Lo, Co

Graduate Degree		
O*NET Code	Job Title	WP Code
19-2099.01	Remote Sensing Scientist & Technologist	Pr, Lo, Inq
19-3011	Economist	Lo, Co, En
19-3011.01	Environmental Economist	Inq, En, Co
19-3022	Survey Researcher	Lo, Inq, Co
19-3031.01	School Psychologist	Inq, Lo, He
19-3031.02	Clinical Psychologist	Inq, He, Ex



Graduate Degree		
O*NET Code	Job Title	WP Code
19-3032	Industrial-Organizational Psychologist	Inq, En, Ex
19-3041	Sociologist	Inq, Inf, He
19-3051	Urban & Regional Planner	Inq, En, Ex
19-3091.01	Anthropologist	Inq, Inf, Ex
19-3091.02	Archeologist	Inq, Pr, Inf
19-3092	Geographer	Inq, Pr, Inf
19-3093	Historian	Inf, Inq, Lo
19-3094	Political Scientist	Inq, Inf, He
25-1061	Anthropology & Archeology Teacher, Postsecondary	He, Inq, Lo
25-1062	Area, Ethnic, & Cultural Studies Teacher, Postsecondary	He, Inq, Inf
25-1067	Sociology Teacher, Postsecondary	He, Inq, Ex
25-1126	Philosophy & Religion Teacher, Postsecondary	He, Ex, Inq
25-4011	Archivist	Co, Inq, Lo
25-4021	Librarian	Co, He, En

## Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> <li><b>American Anthropological Association</b> <a href="http://www.americananthro.org/">www.americananthro.org/</a></li> </ul>	<ul style="list-style-type: none"> <li><b>American Economic Association</b> <a href="http://www.aeaweb.org/">www.aeaweb.org/</a></li> </ul>
<ul style="list-style-type: none"> <li><b>American Educational Research Association</b> <a href="http://www.aera.net">www.aera.net</a></li> </ul>	<ul style="list-style-type: none"> <li><b>American Historical Association</b> <a href="http://www.historians.org">www.historians.org</a></li> </ul>
<ul style="list-style-type: none"> <li><b>American Planning Association</b> <a href="http://www.planning.org">www.planning.org</a></li> </ul>	<ul style="list-style-type: none"> <li><b>American Political Science Association</b> <a href="http://www.apsanet.org">www.apsanet.org</a></li> </ul>
<ul style="list-style-type: none"> <li><b>American Psychological Association</b> <a href="http://www.apa.org">www.apa.org</a></li> </ul>	<ul style="list-style-type: none"> <li><b>American Sociological Association</b> <a href="http://www.asanet.org">www.asanet.org</a></li> </ul>
<ul style="list-style-type: none"> <li><b>Archaeological Institute of America</b> <a href="http://www.archaeological.org">www.archaeological.org</a></li> </ul>	<ul style="list-style-type: none"> <li><b>Association of American Geographers</b> <a href="http://www.aag.org">www.aag.org</a></li> </ul>
<ul style="list-style-type: none"> <li><b>Cartography &amp; Geographic Information Society</b> <a href="http://www.cartogis.org">www.cartogis.org</a></li> </ul>	<ul style="list-style-type: none"> <li><b>Insights Association</b> <a href="http://www.insightsassociation.org/">www.insightsassociation.org/</a></li> </ul>
<ul style="list-style-type: none"> <li><b>Society of American Archivists</b> <a href="http://www2.archivists.org/">www2.archivists.org/</a></li> </ul>	

# EXPLORE YOUR FUTURE



## Notes

---

---

---

---

---

---

---

---



## Human Resources

Occupations in **Human Resources** involve planning, directing, and coordinating employee activities and resources. Tasks and responsibilities include recruiting, selecting, and training employees, maintaining employee information on compensation, benefits, and performance, developing workplace policies and procedures, and mediating disputes between employees and employers. Many jobs require post-secondary education or specialized training or certification through professional development courses. To learn more about the occupations that make up this job group, search the complete O\*NET listings at [www.onetonline.org](http://www.onetonline.org).

High Basic Interest Scales
Consulting
Business
Mediation & Persuasion
Finance
Law

Low Basic Interest Scales
Life Science
Mathematics
Physical Science
Nature-Agriculture
Medical Service

### Job Titles from O\*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O\*NET code and the Work Personality (WP) code associated with the job, if available, are included.

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
43-4161	Human Resources Assistant	Co, En, He

Bachelor's Degree		
O*NET Code	Job Title	WP Code
11-3111	Compensation & Benefits Manager	En, Co, He
11-3121	Human Resources Manager	En, He, Co
11-3131	Training & Development Manager	En, As, He
13-1041.03	Equal Opportunity Representative & Officer	He, En, Co
13-1071	Human Resources Specialist	En, Co, He
13-1075	Labor Relations Specialist	En, Co, He
13-1121	Meeting, Convention, & Event Planner	En, Co, He
13-1141	Compensation, Benefits, & Job Analysis Specialist	Co, St, En
13-1151	Training & Development Specialist	He, Ex, Co



Graduate Degree		
O*NET Code	Job Title	WP Code
13-1111	Management Analyst	Lo, En, Co
19-3032	Industrial-Organizational Psychologist	Inq, En, Ex
23-1022	Arbitrator, Mediator, & Conciliator	He, En, As
25-1011	Business Teacher, Postsecondary	He, En, Inq

## Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> <li>• <b>Association for Talent Development</b> <i>www.td.org/</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Association of Executive Search &amp; Leadership Consultants</b> <i>www.aesc.org</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>Career Development Network</b> <i>www.careernetwork.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Institute of Management Consultants USA</b> <i>www.imcusa.org</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>International Coach Federation</b> <i>www.coachfederation.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>International Foundation of Employee Benefit Plans</b> <i>www.ifebp.org</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>International Public Management Association for Human Resources</b> <i>http://ipma-hr.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Meeting Professionals International</b> <i>www.mpiweb.org</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>Society for Human Resource Management</b> <i>www.shrm.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Society for Industrial &amp; Organizational Psychology</b> <i>www.siop.org</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>World At Work</b> <i>www.worldatwork.org</i></li> </ul>	

## Notes

---



---



---



---



---



---



---



---

## Physical Science & Research

Occupations in **Physical Science & Research** involve research aimed at the discovery of scientific principles and their application to specific fields such as chemistry, physics, geology, astronomy, and environmental science. Jobs involve conducting lab experiments, analyzing data, designing research equipment, developing synthetic substances, and studying cause and effect relationships. Most jobs in this area require post-secondary education and a high interest and ability in mathematics and sciences. To learn more about the occupations that make up this job group, search the complete O\*NET listings at [www.onetonline.org](http://www.onetonline.org).

High Basic Interest Scales
Mathematics
Physical Science
Life Science
Endurance
Engineering

Low Basic Interest Scales
Mediation & Persuasion
Business
Sales

### Job Titles from O\*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O\*NET code and the Work Personality (WP) code associated with the job, if available, are included.

High School Diploma		
O*NET Code	Job Title	WP Code
49-9099.01	Geothermal Technician	Pr, Co
51-8091	Chemical Plant & System Operator	Pr, Co, St
51-8093	Petroleum Pump Systems Operator, Refinery Operator, & Gauger	Pr, Co, St
51-8099.01	Biofuels Processing Technician	Pr, Co, Inf
51-8099.02	Methane/Landfill Gas Generation System Technician	Pr, Co, Inf
51-8099.03	Biomass Plant Technician	Pr, Co, Inf
51-9011	Chemical Equipment Operator & Tender	Pr, Co
51-9012	Separating, Filtering, Clarifying, Precipitating, & Still Machine Setter, Operator, & Tender	Pr, Co, St
51-9023	Mixing & Blending Machine Setter, Operator, & Tender	Pr, Co, St
51-9083	Ophthalmic Laboratory Technician	Pr, Co, St

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
19-4031	Chemical Technician	Lo, Pr, Co
19-4051.01	Nuclear Equipment Operation Technician	Pr, St, Lo
19-4051.02	Nuclear Monitoring Technician	Pr, St, Lo
19-4093	Forest & Conservation Technician	Pr, Inq, En



Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
19-4099.01	Quality Control Analyst	Co, Lo, Pr
39-4011	Embalmer	Pr, Co, Inq
49-9081	Wind Turbine Service Technician	Pr, Co
51-8011	Nuclear Power Reactor Operator	Pr, St, Co
51-8021	Stationary Engineer & Boiler Operator	Pr, Lo, Co
51-8031	Water & Wastewater Treatment Plant & System Operator	Pr, Co, St
51-8092	Gas Plant Operator	Pr, Co, St
51-9071.06	Gem & Diamond Worker	Pr, Lo, Inq

Bachelor's Degree		
O*NET Code	Job Title	WP Code
11-3051.01	Quality Control Systems Manager	En, Co, Pr
11-3051.03	Biofuels Production Manager	En, Co, Pr
11-3051.04	Biomass Power Plant Manager	En, Co, Pr
11-3051.05	Methane/Landfill Gas Collection System Operator	Co, En, Pr
11-9199.11	Brownfield Redevelopment Specialist & Site Manager	En, Inq, Co
17-2041	Chemical Engineer	Lo, Inq, Pr
19-1031.01	Soil & Water Conservationist	Inq, Pr, En
19-2021	Atmospheric & Space Scientist	Lo, Inq, Pr
19-2031	Chemist	Lo, Inq, Pr
19-2041	Environmental Scientist & Specialist, Including Health	Lo, Inq, Pr
19-2042	Geoscientist	Lo, Inq, Pr
19-2043	Hydrologist	Lo, Inq, Pr
19-4041.01	Geophysical Data Technician	St, Pr, Lo
19-4041.02	Geological Sample Test Technician	Pr, Lo, St
19-4091	Environmental Science & Protection Technician, Including Health	Inq, Pr, St
19-4092	Forensic Science Technician	Lo, Inq, Pr
19-4099.02	Precision Agriculture Technician	Pr, Lo, Co
19-4099.03	Remote Sensing Technician	Pr, Lo, Co

Graduate Degree		
O*NET Code	Job Title	WP Code
19-1013	Soil & Plant Scientist	Inq, Lo, Pr
19-2011	Astronomer	Lo, Ex, Pr
19-2012	Physicist	Lo, Inq, Pr
19-2032	Materials Scientist	Lo, Inq, Pr
19-2041.01	Climate Change Analyst	Inq, En



Graduate Degree		
O*NET Code	Job Title	WP Code
19-2041.02	Environmental Restoration Planner	Inq, Pr, En
19-2099.01	Remote Sensing Scientist & Technologist	Pr, Lo, Inq
19-3092	Geographer	Inq, Pr, Inf
25-1051	Atmospheric, Earth, Marine, & Space Sciences Teacher, Postsecondary	He, Inq, Lo
25-1052	Chemistry Teacher, Postsecondary	He, Lo, Pr
25-1053.00	Environmental Science Teacher, Postsecondary	He, Inq, Ex
25-1054	Physics Teacher, Postsecondary	He, Lo, Inq

## Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> <li><b>American Academy of Forensic Sciences</b> <i>www.aafs.org</i></li> </ul>	<ul style="list-style-type: none"> <li><b>American Astronomical Society</b> <i>http://aas.org</i></li> </ul>
<ul style="list-style-type: none"> <li><b>American Chemical Society</b> <i>www.acs.org</i></li> </ul>	<ul style="list-style-type: none"> <li><b>American Geosciences Institute</b> <i>www.agiweb.org</i></li> </ul>
<ul style="list-style-type: none"> <li><b>American Institute of Hydrology</b> <i>http://aih.engr.siu.edu/</i></li> </ul>	<ul style="list-style-type: none"> <li><b>American Institute of Physics</b> <i>www.aip.org</i></li> </ul>
<ul style="list-style-type: none"> <li><b>American Meteorological Society</b> <i>www.ametsoc.org/ams/</i></li> </ul>	<ul style="list-style-type: none"> <li><b>American Nuclear Society</b> <i>www.ans.org</i></li> </ul>
<ul style="list-style-type: none"> <li><b>American Society of Embalmers</b> <i>http://amsocembalmers.org/</i></li> </ul>	<ul style="list-style-type: none"> <li><b>ASPRS: The Imaging &amp; Geospatial Information Society</b> <i>www.asprs.org</i></li> </ul>
<ul style="list-style-type: none"> <li><b>Association of American Geographers</b> <i>www.aag.org</i></li> </ul>	<ul style="list-style-type: none"> <li><b>Materials Research Society</b> <i>www.mrs.org</i></li> </ul>
<ul style="list-style-type: none"> <li><b>National Association of Environmental Professionals</b> <i>www.naep.org</i></li> </ul>	<ul style="list-style-type: none"> <li><b>Soil Science Society of America</b> <i>www.soils.org</i></li> </ul>

## Notes

---



---



---



---



---



---

## Construction

Occupations in **Construction** involve making, building, assembling, and repairing products, buildings, roads, bridges, and machinery. Jobs may involve working with various materials, such as wood, stone, metal, and plastic, using equipment and tools like cement mixers and air hammers, or operating heavy machinery such as bulldozers. Many of these jobs require apprenticeships and on-the-job training. To learn more about the occupations that make up this job group, search the complete O\*NET listings at [www.onetonline.org](http://www.onetonline.org).

High Basic Interest Scales
Skilled Trades
Engineering
Creative Arts
Nature-Agriculture
Family Activity

Low Basic Interest Scales
Author-Journalism
Teaching
Technical Writing

### Job Titles from O\*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O\*NET code and the Work Personality (WP) code associated with the job, if available, are included.

Minimal Education		
O*NET Code	Job Title	WP Code
47-2161	Plasterer & Stucco Mason	Pr
47-3014.00	Helper--Painter, Paperhanger, Plasterer, & Stucco Mason	Pr, Co
47-4071	Septic Tank Servicer & Sewer Pipe Cleaner	Pr
47-5011	Derrick Operator, Oil & Gas	Pr, Co, Lo
47-5051	Rock Splitter, Quarry	Pr, Co, St
47-5071	Roustabout, Oil & Gas	Pr
51-7021	Furniture Finisher	Pr, Ex

High School Diploma		
O*NET Code	Job Title	WP Code
47-2021	Brickmason & Blockmason	Pr, Co, Lo
47-2031.01	Construction Carpenter	Pr, Co, Lo
47-2031.02	Rough Carpenter	Pr, Co, Lo
47-2041	Carpet Installer	Pr, En
47-2042	Floor Layer	Pr, Co, St
47-2043.00	Floor Sander & Finisher	Pr
47-2044	Tile & Marble Setter	Pr, Co, Ex
47-2051	Cement Mason & Concrete Finisher	Pr, En

# EXPLORE YOUR FUTURE



High School Diploma		
O*NET Code	Job Title	WP Code
47-2053	Terrazzo Worker & Finisher	Pr
47-2061	Construction Laborer	Pr, Co, St
47-2071	Paving, Surfacing, & Tamping Equipment Operator	Pr, Co, St
47-2072	Pile-Driver Operator	Pr, Co, Lo
47-2073	Operating Engineer & Other Construction Equipment Operator	Pr, Co, St
47-2081	Drywall & Ceiling Tile Installer	Pr, Co, St
47-2082	Taper	Pr
47-2121	Glazier	Pr, Co, St
47-2131	Insulation Worker, Floor, Ceiling, & Wall	Pr
47-2132	Insulation Worker, Mechanical	Pr, Co, Lo
47-2141	Painter, Construction & Maintenance	Pr, Co, St
47-2142	Paperhanger	Pr, Co, St
47-2151	Pipelayer	Pr
47-2171	Reinforcing Iron & Rebar Worker	Pr, Co, Lo
47-2181	Roofer	Pr, Co, St
47-2211	Sheet Metal Worker	Pr
47-2221	Structural Iron & Steel Worker	Pr, Lo, Co
47-2231	Solar Photovoltaic Installer	Pr, Co
47-3011	Helper--Brickmason, Blockmason, Stonemason, & Tile & Marble Setter	Pr
47-3012	Helper--Carpenter	Pr, Co
47-3013	Helper--Electrician	Pr, Co
47-3015	Helper--Pipelayer, Plumber, Pipefitter, & Steamfitter	Pr
47-3016	Helper--Roofer	Pr, Co
47-4031	Fence Erector	Pr, Co, St
47-4051	Highway Maintenance Worker	Pr, Co, St
47-4061	Rail-Track Laying & Maintenance Equipment Operator	Pr
47-4091	Segmental Paver	Pr, Co, St
47-4099.03	Weatherization Installer & Technician	Pr, Co
47-5012	Rotary Drill Operator, Oil & Gas	Pr, En, Co
47-5013	Service Unit Operator, Oil, Gas, & Mining	Pr, Co, Lo
47-5021	Earth Driller	Pr, Lo, Co
47-5031	Explosives Worker, Ordnance Handling Expert, & Blaster	Pr, Lo, Co
47-5041	Continuous Mining Machine Operator	Pr, Co, Lo
47-5042	Mine Cutting & Channeling Machine Operator	Pr
47-5061	Roof Bolter, Mining	Pr, Co
47-5081	Helper--Extraction Worker	Pr, Co
49-9045	Refractory Materials Repairer	Pr, Co, Lo
49-9095	Manufactured Building & Mobile Home Installer	Pr, Co, St



High School Diploma		
O*NET Code	Job Title	WP Code
49-9096	Rigger	Pr, Co, Lo
51-2021	Coil Winder, Taper, & Finisher	Pr, Co, Lo
51-2091	Fiberglass Laminator & Fabricator	Pr, Co, Lo
51-7011	Cabinetmaker & Bench Carpenter	Pr, Co, St
51-7041	Sawing Machine Setter, Operator, & Tender, Wood	Pr, Co, Lo
51-7042	Woodworking Machine Setter, Operator, & Tender, Except Sawing	Pr, Co, Lo
51-9031	Cutter & Trimmer, Hand	Pr, Co, St
51-9061	Inspector, Tester, Sorter, Sampler & Weigher	Co, St, Pr
51-9198	Helper--Production Worker	Pr, Co, St
53-4013	Rail Yard Engineer, Dinkey Operator, & Hostler	Pr, Co, Inf
53-7032	Excavating & Loading Machine & Dragline Operator	Pr
53-7033	Loading Machine Operator, Underground Mining	Pr, Co
53-7051	Industrial Truck & Tractor Operator	Pr, Co, St
53-7062	Laborer & Freight, Stock, & Material Mover, Hand	Pr
53-7111	Mini Shuttle Car Operator	Pr
53-7121	Tank Car, Truck, & Ship Loader	Pr, Co

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
13-1199.01	Energy Auditor	Co, St, En
47-1011	First-Line Supervisor of Construction Trades & Extraction Worker	En, Pr, Co
47-1011.03	Solar Energy Installation Manager	En, Pr
47-2011	Boilermaker	Pr, Co, St
47-2022	Stonemason	Pr
47-2111	Electrician	Pr, Lo, Co
47-2152.01	Pipe Fitter & Steamfitter	Pr, Co, St
47-2152.02	Plumber	Pr, Co, Lo
47-4011	Construction & Building Inspector	Pr, Co, Lo
47-4021	Elevator Installer & Repairer	Pr, Lo, Co
47-4041	Hazardous Materials Removal Worker	Pr, Co, St
47-4099.02	Solar Thermal Installer & Technician	Pr, Co
49-9092	Commercial Diver	Pr
51-7031	Model Maker, Wood	Pr, Ex, Co
51-7032	Patternmaker, Wood	Pr, Lo, Ex
51-9071.07	Precious Metal Worker	Pr, Ex
53-7021	Crane & Tower Operator	Pr, Co, Lo





Bachelor's Degree		
O*NET Code	Job Title	WP Code
11-9021	Construction Manager	En, Pr, Co
11-9199.10	Wind Energy Project Manager	En, Co, Inq

## Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> <li>• <b>Associated Builders &amp; Contractors</b> <i>www.abc.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Associated General Contractors of America</b> <i>www.agc.org</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>Association of Construction Inspectors</b> <i>www.aci-assoc.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Cabinet Makers Association</b> <i>www.cabinetmakers.org</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>Independent Electrical Contractors</b> <i>www.ieci.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>International Association of Bridge, Structural, Ornamental &amp; Reinforcing Iron Workers</b> <i>www.ironworkers.org</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>National Association of Elevator Contractors</b> <i>www.naec.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>National Association of Home Builders</b> <i>www.nahb.org</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>National Insulation Association</b> <i>http://insulation.org/</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>National Mining Association</b> <i>http://nma.org/</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>National Roofing Contractors Association</b> <i>www.nrca.net</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>National Tile Contractors Association</b> <i>www.tile-assn.com</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>Operative Plasterers' &amp; Cement Masons' International Association</b> <i>www.opcmia.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Painting &amp; Decorating Contractors of America</b> <i>www.pdca.org</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>Plumbing-Heating-Cooling Contractors Association</b> <i>www.phccweb.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Sheet Metal &amp; Air Conditioning Contractors' National Association</b> <i>www.smacna.org</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>The Flooring Contractors Association</b> <i>www.fcica.com</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>The Masonry Society</b> <i>https://masonrysociety.org/</i></li> </ul>

## Notes

---



---



---



---



---



---

## Social Service & Mental Health

Occupations in **Social Service & Mental Health** provide individuals, families, organizations, and communities with psychological, emotional, physical, and social support. Responsibilities may include delivering counseling and helping those in need, holding workshops and information sessions to educate the public, writing reports, identifying and evaluating social and community-based program needs, and consulting with clients and patients on a wide range of social and personal situations to provide guidance on life problems and issues. Jobs in this group often require college or university education. To learn more about the occupations that make up this job group, search the complete O\*NET listings at [www.onetonline.org](http://www.onetonline.org).

High Basic Interest Scales
Social Service
Teaching
Social Science
Elementary Education
Technical Writing

Low Basic Interest Scales
Adventure
Personal Service
Skilled Trades

### Job Titles from O\*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O\*NET code and the Work Personality (WP) code associated with the job, if available, are included.

High School Diploma		
O*NET Code	Job Title	WP Code
31-1011	Home Health Aide	He, Pr
31-1013	Psychiatric Aide	He, Pr, Co
39-9021	Personal Care Aide	He, Pr, St

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
11-9061	Funeral Service Manager	En, Co, He
29-2053	Psychiatric Technician	He, En, Pr
31-2011	Occupational Therapy Assistant	He, Pr
31-2012	Occupational Therapy Aide	He, Pr
31-9099.01	Speech-Language Pathology Assistant	He, Co, St
39-9041	Residential Advisor	He, En, Co
43-4061	Eligibility Interviewer, Government Programs	He, Co, En

# EXPLORE YOUR FUTURE



Bachelor's Degree		
O*NET Code	Job Title	WP Code
11-9151	Social & Community Service Manager	En, As, He
21-1021	Child, Family, & School Social Worker	He, En
21-1091	Health Educator	He, En
21-1092	Probation Officer & Correctional Treatment Specialist	He, En, As
21-1093	Social & Human Service Assistant	Co, St, He
21-1094	Community Health Worker	He, Inq, En
21-2021	Director, Religious Activities & Education	En, He, Co

Graduate Degree		
O*NET Code	Job Title	WP Code
19-3022	Survey Researcher	Lo, Inq, Co
19-3031.02	Clinical Psychologist	Inq, He, Ex
19-3031.03	Counseling Psychologist	He, Inq, Ex
19-3039.01	Neuropsychologist & Clinical Neuropsychologist	Inq, He, Ex
21-1011	Substance Abuse & Behavioral Disorder Counselor	He, Ex, Inq
21-1012	Educational, Guidance, School, & Vocational Counselor	He
21-1013	Marriage & Family Therapist	He, Ex, Inq
21-1014	Mental Health Counselor	He, Inq, Ex
21-1015	Rehabilitation Counselor	He, Inq
21-1022	Healthcare Social Worker	He, Inq
21-1023	Mental Health & Substance Abuse Social Worker	He, Inq, Ex
21-2011	Clergy	He, En, Ex
25-1066	Psychology Teacher, Postsecondary	He, Inq, Inf
25-1113	Social Work Teacher, Postsecondary	He, Inq
25-9021	Farm & Home Management Advisor	He, Pr, En
29-1066	Psychiatrist	Inq, Lo, He
29-1122	Occupational Therapist	He, Inq, Lo
29-1122.01	Low Vision Therapist, Orientation & Mobility Specialist, & Vision Rehabilitation Therapist	He, Inq, Pr
29-1127	Speech-Language Pathologist	He, Inq, Ex



## Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> <li>• <b>American Academy of Religion</b> <i>www.aarweb.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>American Association for Marriage &amp; Family Therapy</b> <i>www.aamft.org</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>American Association of Pastoral Counselors</b> <i>www.aapc.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>American Counseling Association</b> <i>www.counseling.org</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>American Mental Health Counselors Association</b> <i>www.amhca.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>American Occupational Therapy Association</b> <i>www.aota.org</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>American Probation &amp; Parole Association</b> <i>www.appa-net.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>American Psychiatric Association</b> <i>www.psychiatry.org/</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>American Psychological Association</b> <i>www.apa.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>American Rehabilitation Counseling Association</b> <i>www.arcaweb.org</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>American Speech-Language-Hearing Association</b> <i>www.asha.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>National Association of Social Workers</b> <i>www.socialworkers.org</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>National Career Development Association</b> <i>www.ncda.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>The Association for Addiction Professionals</b> <i>www.naadac.org</i></li> </ul>

## Notes

---



---



---



---



---



---



---



---

## Nature, Agriculture & Environment

Occupations in **Nature, Agriculture & Environment** typically include farming and working outdoors. Jobs involve a range of activities such as planting, cultivating, and harvesting crops, tending to nurseries and greenhouses, raising animals, and managing, improving, and protecting natural resources. Related jobs might include landscaping, gardening, and groundskeeping. This interest can often be fulfilled through recreational activities and hobbies outside of your work. Both post-secondary education and on-the-job training are available for many of these jobs. To learn more about the occupations that make up this job group, search the complete O\*NET listings at [www.onetonline.org](http://www.onetonline.org).

High Basic Interest Scales
Nature-Agriculture
Family Activity
Skilled Trades
Accountability
Life Science

Low Basic Interest Scales
Author-Journalism
Teaching
Performing Arts
Mediation & Persuasion

### Job Titles from O\*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O\*NET code and the Work Personality (WP) code associated with the job, if available, are included.

Minimal Education		
O*NET Code	Job Title	WP Code
37-3011	Landscaping & Groundskeeping Worker	Pr, Co
39-2021	Nonfarm Animal Caretaker	Pr, Co
45-2041	Grader & Sorter, Agricultural Products	Pr, Co, St
45-2092.02	Farmworker & Laborer, Crop	Pr
45-2093	Farmworker, Farm, Ranch, & Aquacultural Animals	Pr
45-3011	Fisher & Related Fishing Worker	Pr
45-3021	Hunter & Trapper	Pr
45-4021	Faller	Pr, Co, St
51-3022	Meat, Poultry, & Fish Cutter & Trimmer	Pr
51-3023	Slaughterer & Meat Packer	Pr, Co, St

High School Diploma		
O*NET Code	Job Title	WP Code
13-1074	Farm Labor Contractor	En, Pr, He
33-9011	Animal Control Worker	Pr, He, Co
37-2021	Pest Control Worker	Pr, Co, St



High School Diploma		
O*NET Code	Job Title	WP Code
37-3012	Pesticide Handler, Sprayer, & Applicator, Vegetation	Pr, Co, St
37-3013	Tree Trimmer & Pruner	Pr
39-2011	Animal Trainer	Pr
45-1011.05	First-Line Supervisor of Logging Workers	En, Pr, Co
45-2011	Agricultural Inspector	Pr, Co, St
45-2091	Agricultural Equipment Operator	Pr
45-2092.01	Nursery Worker	Pr
47-4099.03	Weatherization Installer & Technician	Pr, Co
51-9199.01	Recycling & Reclamation Worker	Pr, Co, St
53-1021.01	Recycling Coordinator	En, Co

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
11-9013.01	Nursery & Greenhouse Manager	En, Pr, Co
19-4011.01	Agricultural Technician	Pr, Lo, Co
19-4093	Forest & Conservation Technician	Pr, Inq, En
31-9096	Veterinary Assistant & Laboratory Animal Caretaker	Pr, He, Inq
37-1012	First-Line Supervisor of Landscaping, Lawn Service, & Groundskeeping Workers	En, Pr, Co
45-1011.07	First-Line Supervisor of Agricultural Crop & Horticultural Workers	Pr, En, Co
45-1011.08	First-Line Supervisor of Animal Husbandry & Animal Care Workers	En, Pr
45-2021	Animal Breeder	Pr, Inq
45-4011	Forest & Conservation Worker	Pr, Co, Lo
45-4023	Log Grader & Scaler	Pr, Co, St

Bachelor's Degree		
O*NET Code	Job Title	WP Code
11-9013.02	Farm & Ranch Manager	En, Pr, Co
11-9013.03	Aquacultural Manager	En, Pr, Co
11-9041.01	Biofuels/Biodiesel Technology & Product Development Manager	En, Inq
11-9199.11	Brownfield Redevelopment Specialist & Site Manager	En, Inq, Co
13-1021	Buyer & Purchasing Agent, Farm Products	En, Co, Pr
13-1199.05	Sustainability Specialist	En, Inq, Ex
17-2021	Agricultural Engineer	Lo, Pr, En
19-1031	Conservation Scientist	
19-1031.01	Soil & Water Conservationist	Inq, Pr, En
19-1031.02	Range Manager	Pr, Inq, As



Bachelor's Degree		
O*NET Code	Job Title	WP Code
19-1031.03	Park Naturalist	He, Pr, Ex
19-1032	Forester	Pr, Inq, En
19-4099.02	Precision Agriculture Technician	Pr, Lo, Co
45-1011.06	First-Line Supervisor of Aquacultural Workers	En, Pr, Co

Graduate Degree		
O*NET Code	Job Title	WP Code
25-1041	Agricultural Sciences Teacher, Postsecondary	He, Inq, Pr
25-1043	Forestry & Conservation Science Teacher, Postsecondary	He, Inq, Pr
25-1053	Environmental Science Teacher, Postsecondary	He, Inq, Ex
25-9021	Farm & Home Management Advisor	He, Pr, En
29-1131	Veterinarian	Inq, Lo, Pr

## Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> <li><b>American Association for Laboratory Animal Science</b> <a href="http://www.aalas.org">www.aalas.org</a></li> </ul>	<ul style="list-style-type: none"> <li><b>American Association of Meat Processors</b> <a href="http://www.aamp.com">www.aamp.com</a></li> </ul>
<ul style="list-style-type: none"> <li><b>American Fisheries Society</b> <a href="https://fisheries.org/">https://fisheries.org/</a></li> </ul>	<ul style="list-style-type: none"> <li><b>American Society of Agricultural &amp; Biological Engineers</b> <a href="http://www.asabe.org">www.asabe.org</a></li> </ul>
<ul style="list-style-type: none"> <li><b>American Society of Agronomy</b> <a href="http://www.agronomy.org">www.agronomy.org</a></li> </ul>	<ul style="list-style-type: none"> <li><b>American Society of Farm Managers &amp; Rural Appraisers</b> <a href="http://www.asfmra.org/">www.asfmra.org/</a></li> </ul>
<ul style="list-style-type: none"> <li><b>American Veterinary Medical Association</b> <a href="http://www.avma.org">www.avma.org</a></li> </ul>	<ul style="list-style-type: none"> <li><b>Crop Science Society of America</b> <a href="http://www.crops.org">www.crops.org</a></li> </ul>
<ul style="list-style-type: none"> <li><b>International Boarding &amp; Pet Services Association</b> <a href="http://www.ibpsa.com/">www.ibpsa.com/</a></li> </ul>	<ul style="list-style-type: none"> <li><b>National Animal Care &amp; Control Association</b> <a href="http://www.nacenet.org">www.nacenet.org</a></li> </ul>
<ul style="list-style-type: none"> <li><b>National Association of Environmental Professionals</b> <a href="http://www.naep.org">www.naep.org</a></li> </ul>	<ul style="list-style-type: none"> <li><b>National Dog Groomers Association of America</b> <a href="http://www.nationaldoggroomers.com">www.nationaldoggroomers.com</a></li> </ul>
<ul style="list-style-type: none"> <li><b>National FFA Organization - Future Farmers of America</b> <a href="http://www.ffa.org">www.ffa.org</a></li> </ul>	<ul style="list-style-type: none"> <li><b>Society for Range Management</b> <a href="http://rangelands.org/">http://rangelands.org/</a></li> </ul>



Professional Organizations	
<ul style="list-style-type: none"><li>• <b>Society of American Foresters</b> <i>www.eforester.org/</i></li></ul>	<ul style="list-style-type: none"><li>• <b>Soil Science Society of America</b> <i>www.soils.org</i></li></ul>
<ul style="list-style-type: none"><li>• <b>Tree Care Industry Association</b> <i>www.tcia.org/</i></li></ul>	

## Notes

---

---

---

---

---

---

---

---





## Physical Health & Recreation

Occupations in **Physical Health & Recreation** typically involve individuals who have an interest in physical health and education, sport, and recreation. Tasks and responsibilities may include providing and promoting athletic, fitness, or rehabilitative programs, instructing recreational activities to improve the physical health of people, training, coaching, and evaluating athletes, or officiating and enforcing rules at athletic events. Consider satisfying an interest in this field outside of work through hobbies or recreational activities. Many jobs in this group require post-secondary education or specialized certification, while some may provide on-the-job training. To learn more about the occupations that make up this job group, search the complete O\*NET listings at [www.onetonline.org](http://www.onetonline.org).

High Basic Interest Scales
Medical Service
Adventure
Life Science
Nature-Agriculture
Authoritarian Leadership

Low Basic Interest Scales
Finance
Technical Writing
Law

### Job Titles from O\*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O\*NET code and the Work Personality (WP) code associated with the job, if available, are included.

Minimal Education		
O*NET Code	Job Title	WP Code
39-3091	Amusement & Recreation Attendant	En, Co, Pr

High School Diploma		
O*NET Code	Job Title	WP Code
27-2021	Athlete & Sports Competitor	Pr, En, As
31-2022	Physical Therapist Aide	He, Pr

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
27-2023	Umpire, Referee, & Other Sports Official	Pr, En, Co
27-2031	Dancer	Ex, Pr
31-2021	Physical Therapist Assistant	He, Pr, Inq
39-9031	Fitness Trainer & Aerobics Instructor	He, Pr, En



Bachelor's Degree		
O*NET Code	Job Title	WP Code
11-9039.02	Fitness & Wellness Coordinator	En, He
13-1011	Agent & Business Manager of Artists, Performers, & Athletes	En, As, He
25-2059.01	Adapted Physical Education Specialist	He, Pr
27-2022	Coach & Scout	He, Pr, En
27-2032	Choreographer	Ex, He, En
27-3011	Radio & Television Announcer	Ex, En, As
29-1125	Recreational Therapist	He, Ex
39-9032	Recreation Worker	He, En, Ex

Graduate Degree		
O*NET Code	Job Title	WP Code
25-1193	Recreation & Fitness Studies Teacher, Postsecondary	He
29-1069.11	Sports Medicine Physician	Inq, He, Pr
29-1123	Physical Therapist	He, Inq, Pr
29-1128	Exercise Physiologist	He, Inq, Pr
29-9091	Athletic Trainer	He, Pr, Inq

## Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> <li>• <b>Amateur Athletic Union</b> <a href="http://www.aausports.org">www.aausports.org</a></li> </ul>	<ul style="list-style-type: none"> <li>• <b>American Medical Society for Sports Medicine</b> <a href="http://www.amssm.org">www.amssm.org</a></li> </ul>
<ul style="list-style-type: none"> <li>• <b>American Physical Therapy Association</b> <a href="http://www.apta.org">www.apta.org</a></li> </ul>	<ul style="list-style-type: none"> <li>• <b>American Therapeutic Recreation Association</b> <a href="http://www.atra-online.com">www.atra-online.com</a></li> </ul>
<ul style="list-style-type: none"> <li>• <b>Athletics &amp; Fitness Association of America</b> <a href="http://www.afa.com">www.afa.com</a></li> </ul>	<ul style="list-style-type: none"> <li>• <b>National Association of Schools of Dance</b> <a href="http://nasd.arts-accredit.org">http://nasd.arts-accredit.org</a></li> </ul>
<ul style="list-style-type: none"> <li>• <b>National Association of Sports Officials</b> <a href="http://www.naso.org">www.naso.org</a></li> </ul>	<ul style="list-style-type: none"> <li>• <b>National Association of Sports Officials</b> <a href="http://www.naso.org">www.naso.org</a></li> </ul>
<ul style="list-style-type: none"> <li>• <b>National Athletic Trainers' Association</b> <a href="http://www.nata.org">www.nata.org</a></li> </ul>	<ul style="list-style-type: none"> <li>• <b>National High School Athletic Coaches Association</b> <a href="http://www.hscoaches.org">www.hscoaches.org</a></li> </ul>
<ul style="list-style-type: none"> <li>• <b>National Recreation &amp; Park Association</b> <a href="http://www.nrpa.org">www.nrpa.org</a></li> </ul>	<ul style="list-style-type: none"> <li>• <b>National Strength &amp; Conditioning Association</b> <a href="http://www.nasca.com/">www.nasca.com/</a></li> </ul>
<ul style="list-style-type: none"> <li>• <b>Society of Health and Physical Educators</b> <a href="http://www.shapeamerica.org/">www.shapeamerica.org/</a></li> </ul>	

# EXPLORE YOUR FUTURE

---



## Notes

---

---

---

---

---

---

---

---

## Merchandising & Marketing

Occupations in **Merchandising & Marketing** involve those that contribute to the sale of products in a wide variety of fields. Responsibilities may include negotiating and contracting for the purchase of materials for use or resale, determining the demand for products and services, developing pricing strategies, monitoring market trends, and analyzing marketing systems. Careers in related areas include advertising, sales, distribution, printing, and clerical work in the merchandising field. Some jobs may require post-secondary education, while others provide training on the job or require several years of experience. To learn more about the occupations that make up this job group, search the complete O\*NET listings at [www.onetonline.org](http://www.onetonline.org).

High Basic Interest Scales
Office Work
Business
Sales
Finance
Consulting

Low Basic Interest Scales
Medical Service
Life Science
Nature-Agriculture

### Job Titles from O\*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O\*NET code and the Work Personality (WP) code associated with the job, if available, are included.

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
13-1022	Wholesale & Retail Buyer	En, Co
15-1199.03	Web Administrator	Co, En, Lo
27-1026	Merchandise Displayer & Window Trimmer	Ex, En, Pr
43-3061	Procurement Clerk	Co, En

Bachelor's Degree		
O*NET Code	Job Title	WP Code
11-2011	Advertising & Promotions Manager	En, Ex, Co
11-2021	Marketing Manager	En, As, Co
11-3061	Purchasing Manager	En, As, Co
11-2011.01	Green Marketer	En, Ex, Inf
11-3071.03	Logistics Manager	En, Co
11-9199.04	Supply Chain Manager	En, Co
13-1021	Buyer & Purchasing Agent, Farm Products	En, Co, Pr
13-1023	Purchasing Agent	Co, En, As
13-1081	Logistician	En, Co, St



Bachelor's Degree		
O*NET Code	Job Title	WP Code
13-1081.02	Logistics Analyst	Co, En, Lo
13-1121	Meeting, Convention, & Event Planner	En, Co, He
13-1161	Market Research Analyst & Marketing Specialist	Lo, En, Co
13-1199.06	Online Merchant	En, Co, Pr
15-1199.10	Search Marketing Strategist	En, Inq, Co
27-1024	Graphic Designer	Ex, Pr, En
27-3043.04	Copy Writer	En, Ex, Inf

## Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> <li>• <b>AIGA - American Institute of Graphic Arts</b> <i>www.aiga.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>American Advertising Federation</b> <i>www.aaf.org</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>American e-Commerce Association</b> <i>www.aeous.com</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>American Marketing Association</b> <i>www.ama.org</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>American Purchasing Society</b> <i>www.american-purchasing.com</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Insights Association</b> <i>www.insightsassociation.org/</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>Institute for Supply Management</b> <i>www.instituteforsupplymanagement.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>National Retail Federation</b> <i>http://nrf.com</i></li> </ul>

## Notes

---



---



---



---



---



---



---



---

## Entertainment

Occupations in **Entertainment** may include a variety of interests, such as drama, dance, and music, as well as creative writing for radio, television, and motion pictures. Jobs range from directly performing for an audience to making creative decisions about scripts, actors, and choreography. An interest in this area can be fulfilled through activities outside of your career. Most jobs in this field require natural talent while some provide training on the job and others require specialized training. To learn more about the occupations that make up this job group, search the complete O\*NET listings at [www.onetonline.org](http://www.onetonline.org).

High Basic Interest Scales
Performing Arts
Creative Arts
Author-Journalism
Interpersonal Confidence

Low Basic Interest Scales
Supervising Others
Finance
Organization

### Job Titles from O\*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O\*NET code and the Work Personality (WP) code associated with the job, if available, are included.

Minimal Education		
O*NET Code	Job Title	WP Code
41-9012	Model	Ex, En, Pr

High School Diploma		
O*NET Code	Job Title	WP Code
27-2011	Actor	Ex, En, As
27-2042.01	Singer	Ex, En, As
27-3012	Public Address System & Other Announcer	He, En, Ex
39-3021	Motion Picture Projectionist	Pr, Co, St
39-3031	Usher, Lobby Attendant, & Ticket Taker	He, Co, En
39-3092	Costume Attendant	Co, Pr

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
27-2031	Dancer	Ex, Pr
27-4011	Audio & Video Equipment Technician	Pr, Lo, Co
27-4012	Broadcast Technician	Pr, Co, St
27-4014	Sound Engineering Technician	Pr, Ex



Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
27-4031	Camera Operator, Television, Video, & Motion Picture	Pr, Ex
27-4032	Film & Video Editor	Ex, En, Inq
39-5091	Makeup Artist, Theatrical & Performance	Ex, Pr

Bachelor's Degree		
O*NET Code	Job Title	WP Code
13-1011	Agent & Business Manager of Artists, Performers, & Athletes	En, As, He
27-2012.01	Producer	En, As, Ex
27-2012.02	Director - Stage, Motion Pictures, Television, & Radio	En, As, Ex
27-2012.03	Program Director	En, Co, Ex
27-2012.04	Talent Director	En, As, Ex
27-2012.05	Technical Director/Manager	En, Pr, Co
27-2032	Choreographer	Ex, He, En
27-2041.01	Music Director	Ex, En, He
27-2042.02	Musician, Instrumental	Ex, En
27-3011	Radio & Television Announcer	Ex, En, As
27-3021	Broadcast News Analyst	Ex, Inf, He
27-3022	Reporter & Correspondent	Ex, En, Inq
27-3043.05	Poet, Lyricist & Creative Writer	Ex, Inf, Inq

Graduate Degree		
O*NET Code	Job Title	WP Code
25-1121	Art, Drama, & Music Teacher, Postsecondary	He, Ex, Inf

## Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> <li><b>American Federation of Musicians</b> <a href="http://www.afm.org">www.afm.org</a></li> </ul>	<ul style="list-style-type: none"> <li><b>American Film Institute</b> <a href="http://www.afi.com">www.afi.com</a></li> </ul>
<ul style="list-style-type: none"> <li><b>Association of Talent Agents</b> <a href="http://www.agentassociation.com">www.agentassociation.com</a></li> </ul>	<ul style="list-style-type: none"> <li><b>Audio Engineering Society</b> <a href="http://www.aes.org">www.aes.org</a></li> </ul>
<ul style="list-style-type: none"> <li><b>Directors Guild of America</b> <a href="http://www.dga.org">www.dga.org</a></li> </ul>	<ul style="list-style-type: none"> <li><b>Educational Theatre Association</b> <a href="http://www.schooltheatre.org">www.schooltheatre.org</a></li> </ul>



Professional Organizations	
<ul style="list-style-type: none"><li>• <b>Lighting &amp; Sound America</b> <i>www.lightingandsoundamerica.com/</i></li></ul>	<ul style="list-style-type: none"><li>• <b>National Dance Education Organization</b> <i>www.ndeo.org/</i></li></ul>
<ul style="list-style-type: none"><li>• <b>Producers Guild of America</b> <i>www.producersguild.org</i></li></ul>	<ul style="list-style-type: none"><li>• <b>Screen Actors Guild - American Federation of Television &amp; Radio Artists</b> <i>www.sagaftra.org/</i></li></ul>

## Notes

---

---

---

---

---

---

---

---





## Teaching & Instruction

Occupations in **Teaching & Instruction** focus on education, instruction, course development, and research in specialized subjects. People in this field work in high schools, colleges, universities, and organizations. Teachers tend to specialize in specific subject areas, such as art, engineering, or the social sciences. Consider combining your interest in teaching with your other interests. An undergraduate degree and/or teacher education is required for most teaching jobs, while other jobs as instructors require specialized training in topics such as adult learning. To learn more about the occupations that make up this job group, search the complete O\*NET listings at [www.onetonline.org](http://www.onetonline.org).

High Basic Interest Scales
Teaching
Elementary Education
Social Service
Office Work
Mediation & Persuasion

Low Basic Interest Scales
Physical Science
Engineering
Life Science

### Job Titles from O\*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O\*NET code and the Work Personality (WP) code associated with the job, if available, are included.

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
25-1194	Vocational Education Teacher, Postsecondary	He, Pr
25-3021	Self-Enrichment Education Teacher	He, Ex, En
25-9041	Teacher Assistant	He, Co, St

Bachelor's Degree		
O*NET Code	Job Title	WP Code
11-9039.02	Fitness & Wellness Coordinator	En, He
19-1031.03	Park Naturalist	He, Pr, Ex
21-1091	Health Educator	He, En
21-2021	Director, Religious Activities & Education	En, He, Co
25-2021	Elementary School Teacher	He, Ex, Co
25-2022	Middle School Teacher	He, Ex, Inf
25-2023	Career/Technical Education Teacher, Middle School	He, Ex, Co
25-2031	Secondary School Teacher	He, Ex, Inf

# EXPLORE YOUR FUTURE



Bachelor's Degree		
O*NET Code	Job Title	WP Code
25-2032	Career/Technical Education Teacher, Secondary School	He
25-2052	Special Education Teacher, Kindergarten & Elementary School	He, Ex
25-2053	Special Education Teacher, Middle School	He, Ex
25-2054	Special Education Teacher, Secondary School	He, Inq
25-2059.01	Adapted Physical Education Specialist	He, Pr
25-3011	Adult Basic & Secondary Education & Literacy Teacher & Instructor	He, Ex, Inf
25-3099.02	Tutor	He, Inq
25-4031	Library Technician	Co, He, En
25-9011	Audio-Visual & Multimedia Collections Specialist	Co, St, Pr

Graduate Degree		
O*NET Code	Job Title	WP Code
11-9032	Education Administrator, Elementary & Secondary School	En, He, Co
11-9033	Education Administrator, Postsecondary	En, Co, He
11-9039.01	Distance Learning Coordinator	En, Co
19-3031.01	School Psychologist	Inq, Lo, He
25-1011	Business Teacher, Postsecondary	He, En, Inq
25-1021	Computer Science Teacher, Postsecondary	He, Lo, Inq
25-1022	Mathematical Science Teacher, Postsecondary	He, Lo, Inq
25-1042	Biological Science Teacher, Postsecondary	He, Inq, Lo
25-1052	Chemistry Teacher, Postsecondary	He, Lo, Pr
25-1054	Physics Teacher, Postsecondary	He, Lo, Inq
25-1063	Economics Teacher, Postsecondary	He, Inq, Lo
25-1064	Geography Teacher, Postsecondary	He, Inq, Lo
25-1081	Education Teacher, Postsecondary	He, Ex, Inf
25-1082	Library Science Teacher, Postsecondary	He, Inq, St
25-1121	Art, Drama, & Music Teacher, Postsecondary	He, Ex, Inf
25-1123	English Language & Literature Teacher, Postsecondary	He, Inf, Ex
25-1125	History Teacher, Postsecondary	He, Inq, Inf
25-1126	Philosophy & Religion Teacher, Postsecondary	He, Ex, Inq
25-1191	Graduate Teaching Assistant	He, Co
25-1192	Home Economics Teacher, Postsecondary	He, Inq, Ex
25-4021	Librarian	Co, He, En
25-9021	Farm & Home Management Advisor	He, Pr, En
25-9031	Instructional Coordinator	He, Inq, En
25-9031.01	Instructional Designer & Technologist	En, He, Ex



## Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> <li>• <b>AASA, The School Superintendents Association</b> <i>www.aasa.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>American Association for Adult &amp; Continuing Education</b> <i>www.aaace.org</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>American Association for Employment in Education</b> <i>www.aaee.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>American Association for Teaching &amp; Curriculum</b> <i>www.aatchome.org</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>American Association of University Professors</b> <i>www.aaup.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>American Educational Research Association</b> <i>www.aera.net</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>American Federation of Teachers</b> <i>www.aft.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>American Library Association</b> <i>www.ala.org</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>Association for Talent Development</b> <i>www.td.org/</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>National Association of Secondary School Principals</b> <i>www.nassp.org</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>National Association of Special Education Teachers</b> <i>www.naset.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>National Education Association</b> <i>www.nea.org</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>North American Association for the Study of Religion</b> <i>https://naasr.com/</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Religious Education Association</b> <i>https://religiouseducation.net/</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>Society of Health and Physical Educators</b> <i>www.shapeamerica.org/</i></li> </ul>	

## Notes

---



---



---



---



---



---



---



---

## Music

Occupations in **Music** involve the composition, arrangement, performance, and/or direction of instrumental or vocal music. Musical skills can be incorporated into various medical and/or social service functions and into areas of special education as well. Keep in mind that a professional career in this field is typically highly competitive and often requires high levels of talent. Interests in music can also be satisfied through hobbies, volunteering, and social activities. Training in a specific instrument or musical skill, extensive practice, and musical talent is often necessary for a career in this field. To learn more about the occupations that make up this job group, search the complete O\*NET listings at [www.onetonline.org](http://www.onetonline.org).

High Basic Interest Scales
Performing Arts
Creative Arts
Personal Service
Elementary Education

Low Basic Interest Scales
Finance
Supervising Others
Law

### Job Titles from O\*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O\*NET code and the Work Personality (WP) code associated with the job, if available, are included.

High School Diploma		
O*NET Code	Job Title	WP Code
27-2042.01	Singer	Ex, En, As
27-3012	Public Address System & Other Announcer	He, En, Ex

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
27-2041.04	Music Composer & Arranger	Ex, En
27-4011	Audio & Video Equipment Technician	Pr, Lo, Co
27-4014	Sound Engineering Technician	Pr, Ex
49-9063	Musical Instrument Repairer & Tuner	Pr, Ex, Lo

Bachelor's Degree		
O*NET Code	Job Title	WP Code
27-2041.01	Music Director	Ex, En, He
27-2042.02	Musician, Instrumental	Ex, En
27-3043.05	Poet, Lyricist & Creative Writer	Ex, Inf, Inq
29-1125.02	Music Therapist	He, Ex, Inq



Graduate Degree		
O*NET Code	Job Title	WP Code
25-1121	Art, Drama, & Music Teacher, Postsecondary	He, Ex, Inf

## Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> <li>• <b>American Choral Directors Association</b> <i><a href="https://acda.org">https://acda.org</a></i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>American Composers Alliance</b> <i><a href="http://composers.com">http://composers.com</a></i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>American Federation of Musicians</b> <i><a href="http://www.afm.org">www.afm.org</a></i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>American Society of Composers, Authors &amp; Publishers</b> <i><a href="http://www.ascap.com">www.ascap.com</a></i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>Audio Engineering Society</b> <i><a href="http://www.aes.org">www.aes.org</a></i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Music Teachers National Association</b> <i><a href="http://www.mtna.org">www.mtna.org</a></i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>National Association for Music Education</b> <i><a href="http://www.nafme.org/">www.nafme.org/</a></i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Screen Actors Guild - American Federation of Television &amp; Radio Artists</b> <i><a href="http://www.sagaftra.org/">www.sagaftra.org/</a></i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>Songwriters Guild of America</b> <i><a href="http://www.songwritersguild.com">www.songwritersguild.com</a></i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>The College Music Society</b> <i><a href="http://www.music.org">www.music.org</a></i></li> </ul>

## Notes

---



---



---



---



---



---



---

## Commercial Art & Design

Occupations in **Commercial Art & Design** use creative designs, plans, drawings, computer programs, and other artistic skills to develop, sell, and market a range of products and services. Jobs may involve decorating and furnishing homes and offices, designing the structure of buildings, or capturing images for advertising purposes. Many occupations in this field require artistic talent and specialized college or university training. To learn more about the occupations that make up this job group, search the complete O\*NET listings at [www.onetonline.org](http://www.onetonline.org).

High Basic Interest Scales
Creative Arts
Performing Arts
Author-Journalism
Physical Science

Low Basic Interest Scales
Supervising Others

### Job Titles from O\*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O\*NET code and the Work Personality (WP) code associated with the job, if available, are included.

High School Diploma		
O*NET Code	Job Title	WP Code
27-1023	Floral Designer	Ex, En, Pr
39-3021	Motion Picture Projectionist	Pr, Co, St
39-3092	Costume Attendant	Co, Pr
51-6051	Sewer, Hand	Pr, Ex, Co
51-9123	Painting, Coating, & Decorating Worker	Pr
51-9151	Photographic Process Worker & Processing Machine Operator	Co, Pr, St
51-9195.03	Stone Cutter & Carver, Manufacturing	Pr, Ex
51-9195.04	Glass Blower, Molder, Bender, & Finisher	Pr, Co, Ex

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
15-1134	Web Developer	Co, Lo, Pr
15-1199.03	Web Administrator	Co, En, Lo
27-1022	Fashion Designer	Ex, En, Pr
27-1026	Merchandise Displayer & Window Trimmer	Ex, En, Pr
27-4021	Photographer	Ex, Pr
27-4031	Camera Operator, Television, Video, & Motion Picture	Pr, Ex
27-4032	Film & Video Editor	Ex, En, Inq



Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
39-5091	Makeup Artist, Theatrical & Performance	Ex, Pr
43-9031	Desktop Publisher	Ex, Lo, Co
51-5111	Prepress Technician & Worker	Pr, Co, St
51-6092	Fabric & Apparel Patternmaker	Pr, Ex, Co
51-9071.01	Jeweler	Pr, Ex
51-9071.07	Precious Metal Worker	Pr, Ex

Bachelor's Degree		
O*NET Code	Job Title	WP Code
17-1011	Architect	Ex, Lo, Inq
17-1012	Landscape Architect	Ex, Inq, Pr
17-3011.01	Architectural Drafter	Ex, Pr, Lo
27-1011	Art Director	Ex, En, As
27-1014	Multimedia Artist & Animator	Ex, Inq
27-1021	Commercial & Industrial Designer	Ex, En, Pr
27-1024	Graphic Designer	Ex, Pr, En
27-1025	Interior Designer	Ex, En, As

Graduate Degree		
O*NET Code	Job Title	WP Code
25-1031	Architecture Teacher, Postsecondary	He, Ex
27-1027	Set & Exhibit Designer	Ex, Pr

## Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> <li>• <b>AIGA - American Institute of Graphic Arts</b> <a href="http://www.aiga.org">www.aiga.org</a></li> </ul>	<ul style="list-style-type: none"> <li>• <b>American Apparel &amp; Footwear Association</b> <a href="http://www.wewear.org">www.wewear.org</a></li> </ul>
<ul style="list-style-type: none"> <li>• <b>American Institute of Architects</b> <a href="http://www.aia.org">www.aia.org</a></li> </ul>	<ul style="list-style-type: none"> <li>• <b>American Institute of Floral Designers</b> <a href="http://aifd.org/">http://aifd.org/</a></li> </ul>
<ul style="list-style-type: none"> <li>• <b>American Society of Interior Designers</b> <a href="http://www.asid.org">www.asid.org</a></li> </ul>	<ul style="list-style-type: none"> <li>• <b>American Society of Landscape Architects</b> <a href="http://www.asla.org">www.asla.org</a></li> </ul>
<ul style="list-style-type: none"> <li>• <b>American Society of Media Photographers</b> <a href="http://www.asmp.org/">www.asmp.org/</a></li> </ul>	<ul style="list-style-type: none"> <li>• <b>College Art Association</b> <a href="http://www.collegeart.org">www.collegeart.org</a></li> </ul>



Professional Organizations	
<ul style="list-style-type: none"><li>• <b>Council of Fashion Designers of America</b> <i><a href="https://cfda.com/">https://cfda.com/</a></i></li></ul>	<ul style="list-style-type: none"><li>• <b>Industrial Designers Society of America</b> <i><a href="http://www.idsa.org">www.idsa.org</a></i></li></ul>
<ul style="list-style-type: none"><li>• <b>Jewelers of America</b> <i><a href="http://www.jewelers.org">www.jewelers.org</a></i></li></ul>	<ul style="list-style-type: none"><li>• <b>National Cartoonists Society</b> <i><a href="http://www.reuben.org">www.reuben.org</a></i></li></ul>
<ul style="list-style-type: none"><li>• <b>Professional Photographers of America</b> <i><a href="http://www.ppa.com">www.ppa.com</a></i></li></ul>	<ul style="list-style-type: none"><li>• <b>Society of Illustrators</b> <i><a href="http://www.societyillustrators.org">www.societyillustrators.org</a></i></li></ul>

## Notes

---

---

---

---

---

---

---

---



## Fine Art

Occupations in **Fine Art** involve representation, design, and personal expression through different types of artistic media, such as painting, drawing, photography, and sculpture. Related jobs may include illustrating for books or comics, designing and arranging layouts for printing, or planning and organizing the exhibition of art collections. An interest in this area can be fulfilled through areas outside of your career. Jobs in this field require artistic talent and often specialized education. To learn more about the occupations that make up this job group, search the complete O\*NET listings at [www.onetonline.org](http://www.onetonline.org).

High Basic Interest Scales
Creative Arts
Performing Arts
Nature-Agriculture
Life Science
Author-Journalism

Low Basic Interest Scales
Finance
Supervising Others
Law

### Job Titles from O\*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O\*NET code and the Work Personality (WP) code associated with the job, if available, are included.

High School Diploma		
O*NET Code	Job Title	WP Code
39-3092	Costume Attendant	Co, Pr
51-9123	Painting, Coating, & Decorating Worker	Pr
51-9194	Etcher & Engraver	Pr, Co
51-9195.03	Stone Cutter & Carver, Manufacturing	Pr, Ex
51-9195.04	Glass Blower, Molder, Bender, & Finisher	Pr, Co, Ex

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
27-1012	Craft Artist	Ex, Pr, En
27-1013	Fine Artist, Including Painter, Sculptor, & Illustrator	Ex, Pr
27-1022	Fashion Designer	Ex, En, Pr
27-4021	Photographer	Ex, Pr
39-5091	Makeup Artist, Theatrical & Performance	Ex, Pr
39-7011	Tour Guide & Escort	He, En, As
51-6052	Tailor, Dressmaker, & Custom Sewer	Pr, Ex, En
51-6092	Fabric & Apparel Patternmaker	Pr, Ex, Co



Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
51-9071.01	Jeweler	Pr, Ex
51-9195.05	Potter, Manufacturing	Pr, Ex

Bachelor's Degree		
O*NET Code	Job Title	WP Code
25-4013	Museum Technician & Conservator	Pr, Ex
27-1011	Art Director	Ex, En, As
27-1014	Multimedia Artist & Animator	Ex, Inq

Graduate Degree		
O*NET Code	Job Title	WP Code
25-1121	Art, Drama, & Music Teacher, Postsecondary	He, Ex, Inf
25-4011	Archivist	Co, Inq, Lo
25-4012	Curator	En, As, Co
27-1027	Set & Exhibit Designer	Ex, Pr
29-1125.01	Art Therapist	He, Ex, Inq

## Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> <li>• <b>Allied Artists of America</b> <i><a href="http://alliedartistsofamerica.org">http://alliedartistsofamerica.org</a></i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>American Alliance of Museums</b> <i><a href="http://www.aam-us.org">www.aam-us.org</a></i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>American Art Pottery Association</b> <i><a href="http://aapa.info">http://aapa.info</a></i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>American Craft Council</b> <i><a href="http://craftcouncil.org">http://craftcouncil.org</a></i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>American Institute for Conservation of Historic &amp; Artistic Works</b> <i><a href="http://www.conservation-us.org">www.conservation-us.org</a></i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Association of Art Museum Curators</b> <i><a href="http://www.artcurators.org">www.artcurators.org</a></i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>College Art Association</b> <i><a href="http://www.collegeart.org">www.collegeart.org</a></i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>National Cartoonists Society</b> <i><a href="http://www.reuben.org">www.reuben.org</a></i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>National Sculpture Society</b> <i><a href="https://nationalsculpture.org/">https://nationalsculpture.org/</a></i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Portrait Society of America</b> <i><a href="http://www.portraitsociety.org">www.portraitsociety.org</a></i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>Professional Photographers of America</b> <i><a href="http://www.ppa.com">www.ppa.com</a></i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Society of Illustrators</b> <i><a href="http://www.societyillustrators.org">www.societyillustrators.org</a></i></li> </ul>



## Notes

---

---

---

---

---

---

---

---

## Service & Hospitality

Occupations in **Service & Hospitality** are highly focused on ensuring the physical and social comfort and well-being of people, on either an individual or group basis. These jobs provide a wide variety of services to others, such as food service, accommodations, travel and tourism, and personal services, such as hairstyling and esthetics. Responsibilities may include serving patrons at a restaurant, booking airline tickets, cleaning hotel rooms, or giving a client a manicure. Most of these jobs provide training on the job; however, some may require specialized education. To learn more about the occupations that make up this job group, search the complete O\*NET listings at [www.onetonline.org](http://www.onetonline.org).

High Basic Interest Scales
Personal Service
Office Work
Family Activity
Business
Skilled Trades

Low Basic Interest Scales
Social Science
Physical Science
Technical Writing

### Job Titles from O\*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O\*NET code and the Work Personality (WP) code associated with the job, if available, are included.

Minimal Education		
O*NET Code	Job Title	WP Code
35-2011	Cook, Fast Food	Pr, Co, St
35-2015	Cook, Short Order	Pr, Co, St
35-2021	Food Preparation Worker	Pr, Co, St
35-3021	Combined Food Preparation & Serving Worker, Including Fast Food	Co, Pr, En
35-3022	Counter Attendant, Cafeteria, Food Concession, & Coffee Shop	Pr, He, En
35-3022.01	Barista	En, Co, Pr
35-3031	Waiter & Waitress	He, En, Co
35-3041	Food Server, Nonrestaurant	He, Pr, En
35-9011	Dining Room & Cafeteria Attendant & Bartender Helper	Pr, Co, He
35-9021	Dishwasher	Pr, Co, St
35-9031	Host & Hostess, Restaurant, Lounge, & Coffee Shop	En, He
39-3091	Amusement & Recreation Attendant	En, Co, Pr
41-2011	Cashier	Co, St, En
49-9093	Fabric Mender	Pr
51-6011	Laundry & Dry-Cleaning Worker	Pr, Co, St
51-6021	Presser, Textile, Garment, & Related Materials	Pr, Co, St
51-6031	Sewing Machine Operator	Pr, Co, St

# EXPLORE YOUR FUTURE



Minimal Education		
O*NET Code	Job Title	WP Code
53-3041	Taxi Driver & Chauffeur	Pr, En

High School Diploma		
O*NET Code	Job Title	WP Code
35-1012	First-Line Supervisor of Food Preparation & Serving Worker	En, Co, Pr
35-2012	Cook, Institution & Cafeteria	Pr, Co, St
35-2014	Cook, Restaurant	Pr, En, As
35-3011	Bartender	En, Co, Pr
37-1011	First-Line Supervisor of Housekeeping & Janitorial Workers	En, Co, Pr
37-2011	Janitor & Cleaner, Except Maid & Housekeeping Cleaner	Pr, Co, St
37-2012	Maid & Housekeeping Cleaner	Pr, Co, St
39-1011	Gaming Supervisor	En, As, Co
39-1012	Slot Supervisor	Co, Pr, En
39-3011	Gaming Dealer	Co, En, Pr
39-3012	Gaming & Sports Book Writer & Runner	Co, En, Pr
39-3031	Usher, Lobby Attendant, & Ticket Taker	He, Co, En
39-3092	Costume Attendant	Co, Pr
39-3093	Locker Room, Coatroom, & Dressing Room Attendant	He, En, Co
39-4021	Funeral Attendant	He, En, Pr
39-5092	Manicurist & Pedicurist	Pr, En, He
39-5093.00	Shampooer	Pr, En, Co
39-6011	Baggage Porter & Bellhop	Pr, Co, St
39-9021	Personal Care Aide	He, Pr, St
43-4081	Hotel, Motel, & Resort Desk Clerk	Co, En, He
43-4181	Reservation & Transportation Ticket Agent & Travel Clerk	Co, En, He
43-5011	Cargo & Freight Agent	Co, En, Pr
49-9094	Locksmith & Safe Repairer	Pr, Co, St
51-3011	Baker	Pr, Co, St
51-3021	Butcher & Meat Cutter	Pr, Co, En
51-3093	Food Cooking Machine Operator & Tender	Pr, Co, St
51-6041	Shoe & Leather Worker & Repairer	Pr, Co, Ex
51-6051	Sewer, Hand	Pr, Ex, Co
51-6093	Upholsterer	Pr
51-9083	Ophthalmic Laboratory Technician	Pr, Co, St
53-1031	First-Line Supervisor of Transportation & Material-Moving Machine & Vehicle Operators	En, Co, Pr
53-3011	Ambulance Driver & Attendant	Pr, He
53-3021	Bus Driver, Transit & Intercity	Pr, He



High School Diploma		
O*NET Code	Job Title	WP Code
53-3022	Bus Driver, School or Special Client	Pr, Co
53-3031	Driver/Sales Worker	Pr, En
53-3033	Light Truck or Delivery Services Driver	Pr, Co, St
53-4041	Subway & Streetcar Operator	Pr, Co, St
53-5022	Motorboat Operator	Pr, Co, En
53-6021	Parking Lot Attendant	Pr, Co, St
53-6031	Automotive & Watercraft Service Attendant	Pr, Co, St
53-6061	Transportation Attendant	Pr, He, En
53-7061	Cleaner of Vehicles & Equipment	Pr, Co
53-7064	Packer & Packager, Hand	Pr, Co, St
53-7081	Refuse & Recyclable Material Collector	Pr, Co, St

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
11-9051	Food Service Manager	En, Co, Pr
11-9071	Gaming Manager	En, As, Co
11-9081	Lodging Manager	En, Co, He
35-1011	Chef & Head Cook	En, Pr, Ex
35-2013	Cook, Private Household	Ex, Pr, Co
39-1021	First-Line Supervisor of Personal Service Workers	En, Co, He
39-1021.01	Spa Manager	En, Co, He
39-4031.00	Mortician, Undertaker, & Funeral Director	En, He, Co
39-5011	Barber	Pr, En, Co
39-5012	Hairdresser, Hairstylist, & Cosmetologist	Ex, En, He
39-5094	Skincare Specialist	En, He, Pr
39-6012	Concierge	He, En
39-7011	Tour Guide & Escort	He, En, As
39-7012	Travel Guide	En, As, Co
41-3041	Travel Agent	En, As, Co
51-6052	Tailor, Dressmaker, & Custom Sewer	Pr, Ex, En
53-2031	Flight Attendant	En, He, Co

Bachelor's Degree		
O*NET Code	Job Title	WP Code
13-1121	Meeting, Convention, & Event Planner	En, Co, He
19-1031.03	Park Naturalist	He, Pr, Ex



## Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> <li><b>American Culinary Federation</b> <a href="http://www.acfchefs.org">www.acfchefs.org</a></li> </ul>	<ul style="list-style-type: none"> <li><b>American Gaming Association</b> <a href="http://www.americangaming.org">www.americangaming.org</a></li> </ul>
<ul style="list-style-type: none"> <li><b>American Hotel &amp; Lodging Association</b> <a href="http://www.ahla.com">www.ahla.com</a></li> </ul>	<ul style="list-style-type: none"> <li><b>American Personal &amp; Private Chef Association</b> <a href="http://personalchef.com">http://personalchef.com</a></li> </ul>
<ul style="list-style-type: none"> <li><b>American Public Transportation Association</b> <a href="http://www.apta.com">www.apta.com</a></li> </ul>	<ul style="list-style-type: none"> <li><b>American Society for Quality</b> <a href="http://asq.org">http://asq.org</a></li> </ul>
<ul style="list-style-type: none"> <li><b>American Society of Travel Agents</b> <a href="http://www.asta.org">www.asta.org</a></li> </ul>	<ul style="list-style-type: none"> <li><b>Association of Flight Attendants-CWA</b> <a href="http://www.afacwa.org/">www.afacwa.org/</a></li> </ul>
<ul style="list-style-type: none"> <li><b>Custom Tailors &amp; Designers Association</b> <a href="https://ctda.com/">https://ctda.com/</a></li> </ul>	<ul style="list-style-type: none"> <li><b>International Customer Service Association</b> <a href="http://icsatoday.org">http://icsatoday.org</a></li> </ul>
<ul style="list-style-type: none"> <li><b>International Executive Housekeepers Association</b> <a href="http://www.ieha.org">www.ieha.org</a></li> </ul>	<ul style="list-style-type: none"> <li><b>National Association for Home Care &amp; Hospice</b> <a href="http://www.nahc.org">www.nahc.org</a></li> </ul>
<ul style="list-style-type: none"> <li><b>National Bartenders Association</b> <a href="http://www.bartender.org/">www.bartender.org/</a></li> </ul>	<ul style="list-style-type: none"> <li><b>National Cleaners Association</b> <a href="http://www.nca-i.com/">www.nca-i.com/</a></li> </ul>
<ul style="list-style-type: none"> <li><b>National Limousine Association</b> <a href="http://www.limo.org">www.limo.org</a></li> </ul>	<ul style="list-style-type: none"> <li><b>National Restaurant Association</b> <a href="http://www.restaurant.org">www.restaurant.org</a></li> </ul>
<ul style="list-style-type: none"> <li><b>Professional Beauty Association</b> <a href="https://probeauty.org/">https://probeauty.org/</a></li> </ul>	

## Notes

---



---



---



---



---



---



---



---

## Life Science & Research

Occupations in **Life Science & Research** are focused on the study of living organisms and in applying this knowledge in specific areas, such as food science, microbiology, environmental science, health science, and forestry. People working in this area may work in laboratories as scientists, researchers, technologists, and technicians. Jobs may involve designing and conducting research through lab tests and experiments, using scientific technology and equipment, and preparing research or technical reports. Most occupations in this group require college or university education. To learn more about the occupations that make up this job group, search the complete O\*NET listings at [www.onetonline.org](http://www.onetonline.org).

High Basic Interest Scales
Life Science
Medical Service
Physical Science
Nature-Agriculture
Engineering

Low Basic Interest Scales
Mediation & Persuasion
Author-Journalism

### Job Titles from O\*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O\*NET code and the Work Personality (WP) code associated with the job, if available, are included.

High School Diploma		
O*NET Code	Job Title	WP Code
51-9081	Dental Laboratory Technician	Pr, Lo, Inq

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
11-9061	Funeral Service Manager	En, Co, He
13-1041.06	Coroner	Inq, Lo, Pr
19-4011.01	Agricultural Technician	Pr, Lo, Co
19-4011.02	Food Science Technician	Pr, Lo, Inq
19-4093	Forest & Conservation Technician	Pr, Inq, En
29-2011.03	Histotechnologist & Histologic Technician	Pr, Inq, Co
29-2012	Medical & Clinical Laboratory Technician	Pr, Inq, Co
29-2034	Radiologic Technologist	Pr, He
29-9012	Occupational Health & Safety Technician	Co, St, Pr
39-4011	Embalmer	Pr, Co, Inq
51-9082	Medical Appliance Technician	Pr, Lo, He



Bachelor's Degree		
O*NET Code	Job Title	WP Code
11-9041.01	Biofuels/Biodiesel Technology & Product Development Manager	En, Inq
11-9121.01	Clinical Research Coordinator	En, Inq, Co
11-9121.02	Water Resource Specialist	Inq, En, Co
11-9199.11	Brownfield Redevelopment Specialist & Site Manager	En, Inq, Co
17-2199.01	Biochemical Engineer	Lo, Inq, Pr
19-1012	Food Scientist & Technologist	Inq, Pr, Co
19-1031	Conservation Scientist	
19-1031.01	Soil & Water Conservationist	Inq, Pr, En
19-1031.02	Range Manager	Pr, Inq, As
19-1032	Forester	Pr, Inq, En
19-2041	Environmental Scientist & Specialist, Including Health	Lo, Inq, Pr
19-4021	Biological Technician	Pr, Lo, Inq
19-4091	Environmental Science & Protection Technician, Including Health	Inq, Pr, St
19-4092	Forensic Science Technician	Lo, Inq, Pr
19-4099.02	Precision Agriculture Technician	Pr, Lo, Co
29-2011	Medical & Clinical Laboratory Technologist	Inq, Pr, Co
29-2011.01	Cytogenetic Technologist	Inq, Pr, Co
29-9011	Occupational Health & Safety Specialist	Inq, Lo, Co
43-9111.01	Bioinformatics Technician	Lo, Inq, Pr

Graduate Degree		
O*NET Code	Job Title	WP Code
11-9121	Natural Sciences Manager	En, Inq, Lo
15-2041.01	Biostatistician	Lo, Inq, Co
19-1011	Animal Scientist	Inq, Lo, Pr
19-1013	Soil & Plant Scientist	Inq, Lo, Pr
19-1020.01	Biologist	Inq, Lo, Pr
19-1021	Biochemist & Biophysicist	Inq, Lo, Ex
19-1022	Microbiologist	Inq, Lo, Pr
19-1023	Zoologist & Wildlife Biologist	Inq, Lo, Pr
19-1029.01	Bioinformatics Scientist	Lo, Inq, Co
19-1029.02	Molecular & Cellular Biologist	Inq, Pr, Ex
19-1029.03	Geneticist	Inq, Ex, Pr
19-1041	Epidemiologist	Inq, Lo, He
19-1042	Medical Scientist, Except Epidemiologist	Inq, Lo, Pr
19-2041.02	Environmental Restoration Planner	Inq, Pr, En
19-2041.03	Industrial Ecologist	Inq, En
25-1042	Biological Science Teacher, Postsecondary	He, Inq, Lo



Graduate Degree		
O*NET Code	Job Title	WP Code
29-2011.02	Cytotechnologist	Inq, Lo, Pr
29-9092	Genetic Counselor	He, Inq, Lo

## Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> <li>• <b>American Institute of Biological Sciences</b> <i>www.aibs.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>American Physiological Society</b> <i>www.the-aps.org</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>American Society for Biochemistry &amp; Molecular Biology</b> <i>www.asbmb.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>American Society for Cell Biology</b> <i>www.ascb.org</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>American Society for Microbiology</b> <i>www.asm.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>American Society of Agronomy</b> <i>www.agronomy.org</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>American Society of Animal Science</b> <i>www.asas.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>American Society of Plant Biologists</b> <i>http://my.aspb.org</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>Botanical Society of America</b> <i>www.botany.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Ecological Society of America</b> <i>www.esa.org/esa/</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>Infectious Diseases Society of America</b> <i>www.idsociety.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Institute of Food Technologists</b> <i>www.ift.org</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>Society for Range Management</b> <i>http://rangelands.org/</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Society of American Foresters</b> <i>www.eforester.org/</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>Soil Science Society of America</b> <i>www.soils.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Zoological Association of America</b> <i>http://zaa.org/</i></li> </ul>

## Notes

---



---



---



---



---



---



---



---

## Clerical & Administrative Support

Occupations in **Clerical & Administrative Support** involve a variety of duties and responsibilities, such as preparing, transcribing, transferring, organizing, and storing documents, files, and records, and using business computer applications. Other responsibilities might include assisting customers, delivering messages, collecting accounts, and distributing information. As clerical work is a part of almost every operation, clerical and administrative jobs are listed under other job groups as well. Some jobs in this field require post-secondary education or specialized training in areas such as computer applications. To learn more about the occupations that make up this job group, search the complete O\*NET listings at [www.onetonline.org](http://www.onetonline.org).

High Basic Interest Scales
Office Work
Business
Consulting
Finance
Supervising Others

Low Basic Interest Scales
Life Science
Medical Service
Physical Science

### Job Titles from O\*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O\*NET code and the Work Personality (WP) code associated with the job, if available, are included.

High School Diploma		
O*NET Code	Job Title	WP Code
43-2011	Switchboard Operator, Including Answering Service	Co, En, He
43-2021	Telephone Operator	Co, He, Pr
43-3011	Bill & Account Collector	Co, St, En
43-3021	Billing & Posting Clerk	Co, En, He
43-3021.01	Statement Clerk	Co, En, He
43-3021.02	Billing, Cost, & Rate Clerk	Co, St, En
43-3041	Gaming Cage Worker	St, En, Pr
43-3051	Payroll & Timekeeping Clerk	Co, St, En
43-3071	Teller	Co, St, En
43-4021	Correspondence Clerk	Co, St, En
43-4031.01	Court Clerk	Co, En, Pr
43-4031.03	License Clerk	Co, St, En
43-4041.02	Credit Checker	Co, St, En
43-4051	Customer Service Representative	En, He, Co
43-4071	File Clerk	Co, Pr, En
43-4081	Hotel, Motel, & Resort Desk Clerk	Co, En, He
43-4111	Interviewer, Except Eligibility & Loan	Co, En, He



High School Diploma		
O*NET Code	Job Title	WP Code
43-4121	Library Assistant, Clerical	Co, Pr, He
43-4141	New Accounts Clerk	Co, En, He
43-4151	Order Clerk	Co, En, He
43-4171	Receptionist & Information Clerk	Co, En, He
43-4181	Reservation & Transportation Ticket Agent & Travel Clerk	Co, En, He
43-5011.01	Freight Forwarder	Co, St, En
43-5021	Courier & Messenger	Pr, Co, En
43-5031	Police, Fire, & Ambulance Dispatcher	Co, St, Pr
43-5032	Dispatcher	Co, Pr, En
43-5041	Meter Reader, Utilities	Co, St, Pr
43-5051	Postal Service Clerk	Co, St, Pr
43-5052	Postal Service Mail Carrier	Co, St, Pr
43-5053	Postal Service Mail Sorter, Processor, & Processing Machine Operator	Co, St, Pr
43-5071	Shipping, Receiving, & Traffic Clerk	Co, Pr, En
43-5081.01	Stock Clerk, Sales Floor	Co, Pr, En
43-5081.02	Marking Clerk	Co, Pr, En
43-5081.03	Stock Clerk- Stockroom, Warehouse, or Storage Yard	Pr, Co, St
43-5081.04	Order Filler, Wholesale & Retail Sales	Co, St, Pr
43-5111	Weigher, Measurer, Checker, & Sampler, Recordkeeping	Co, St, Pr
43-9021	Data Entry Keyer	Co, Pr, En
43-9022	Word Processor & Typist	Co, St, En
43-9041.02	Insurance Policy Processing Clerk	Co, St, En
43-9051	Mail Clerk & Mail Machine Operator	Co, St, Pr
43-9061	Office Clerk, General	Co, En, Pr
43-9071	Office Machine Operator	Pr, Co, St
53-1021.01	Recycling Coordinator	En, Co
53-4031	Railroad Conductor & Yardmaster	En, Pr, Co

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
11-3011	Administrative Services Manager	En, As, Co
13-1031.02	Insurance Adjuster, Examiner, & Investigator	Co, St, En
13-1199.03	Customs Broker	En, Co, St
23-2091	Court Reporter	Co, St, En
27-4013	Radio Operator	Pr, Co, St
29-2071	Medical Records & Health Information Technician	Co, St, En
31-9092	Medical Assistant	He, Co, Pr
31-9094	Medical Transcriptionist	Co, St, Pr



Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
43-1011	First-Line Supervisor of Office & Administrative Support Worker	En, Co, He
43-3031	Bookkeeping, Accounting, & Auditing Clerk	Co, St, En
43-3061	Procurement Clerk	Co, En
43-4011	Brokerage Clerk	Co, St, En
43-4031.02	Municipal Clerk	Co, St, En
43-4041.01	Credit Authorizer	Co, St, En
43-4131	Loan Interviewer & Clerk	Co, St, En
43-5061	Production, Planning, & Expediting Clerk	Co, St, En
43-6011	Executive Secretary & Executive Administrative Assistant	Co, St, En
43-6012	Legal Secretary	Co, St, En
43-6013	Medical Secretary	Co, St, He
43-6014	Secretary & Administrative Assistant, Except Legal, Medical, & Executive	Co, St, En
43-9041.01	Insurance Claims Clerk	Co, St, En

Bachelor's Degree		
O*NET Code	Job Title	WP Code
13-1031.01	Claims Examiner, Property & Casualty Insurance	Co, St, En
13-1199.05	Sustainability Specialist	En, Inq, Ex
25-4031	Library Technician	Co, He, En
43-9081	Proofreader & Copy Marker	Co, St, Inf

## Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> <li><b>American Institute of Professional Bookkeepers</b> <a href="http://www.aipb.org">www.aipb.org</a></li> </ul>	<ul style="list-style-type: none"> <li><b>American Payroll Association</b> <a href="http://www.americanpayroll.org">www.americanpayroll.org</a></li> </ul>
<ul style="list-style-type: none"> <li><b>American Society of Administrative Professionals</b> <a href="http://www.asaporg.com/">www.asaporg.com/</a></li> </ul>	<ul style="list-style-type: none"> <li><b>Association of Executive &amp; Administrative Professionals</b> <a href="http://www.theaeap.com">www.theaeap.com</a></li> </ul>
<ul style="list-style-type: none"> <li><b>Customized Logistics and Delivery Association</b> <a href="http://www.clda.org">www.clda.org</a></li> </ul>	<ul style="list-style-type: none"> <li><b>International Association of Administrative Professionals</b> <a href="http://www.iaap-hq.org">www.iaap-hq.org</a></li> </ul>
<ul style="list-style-type: none"> <li><b>International Customer Service Association</b> <a href="http://icsatoday.org">http://icsatoday.org</a></li> </ul>	<ul style="list-style-type: none"> <li><b>NALS The Association for Legal Professionals</b> <a href="http://www.nals.org">www.nals.org</a></li> </ul>



Professional Organizations	
<ul style="list-style-type: none"><li>• <b>National Association of Professional Receptionists</b> <i>www.receptionists.us</i></li></ul>	<ul style="list-style-type: none"><li>• <b>National Court Reporters Association</b> <i>www.ncra.org</i></li></ul>
<ul style="list-style-type: none"><li>• <b>United States Postal Service</b> <i>www.usps.com</i></li></ul>	

## Notes

---

---

---

---

---

---

---

---

## Management & Administration

Occupations in **Management & Administration** involve supervising employees and planning and overseeing activities in the workplace. Many administrative roles also involve counseling, coaching, and supporting employees. A range of tasks are involved with management, but some focus on formulating policies, guidelines, programs, and procedures that provide overall direction to the team, unit, or organization. Some management jobs require post-secondary education; however, many can be acquired with several years of relevant job experience. To learn more about the occupations that make up this job group, search the complete O\*NET listings at [www.onetonline.org](http://www.onetonline.org).

High Basic Interest Scales
Law
Mediation & Persuasion
Supervising Others
Consulting
Business

Low Basic Interest Scales
Physical Science
Creative Arts
Life Science
Engineering
Skilled Trades

### Job Titles from O\*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O\*NET code and the Work Personality (WP) code associated with the job, if available, are included.

High School Diploma		
O*NET Code	Job Title	WP Code
11-9131	Postmaster & Mail Superintendent	En, Co, He

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
11-3011	Administrative Services Manager	En, As, Co
11-9051	Food Service Manager	En, Co, Pr
11-9061	Funeral Service Manager	En, Co, He
11-9071	Gaming Manager	En, As, Co
11-9081	Lodging Manager	En, Co, He
11-9013.01	Nursery & Greenhouse Manager	En, Pr, Co

Bachelor's Degree		
O*NET Code	Job Title	WP Code
11-1021	General & Operations Manager	En, Co, He
11-2011	Advertising & Promotions Manager	En, Ex, Co

# EXPLORE YOUR FUTURE



Bachelor's Degree		
O*NET Code	Job Title	WP Code
11-2021	Marketing Manager	En, As, Co
11-2022	Sales Manager	En, As, Co
11-2031	Public Relations & Fundraising Manager	En, As, Ex
11-3021	Computer & Information Systems Manager	En, Co, Lo
11-3031.02	Financial Manager, Branch or Department	En, As, Co
11-3051	Industrial Production Manager	En, As, Co
11-3061	Purchasing Manager	En, As, Co
11-3071.01	Transportation Manager	En, Co
11-3071.02	Storage & Distribution Manager	En, Co
11-3071.03	Logistics Manager	En, Co
11-3111	Compensation & Benefits Manager	En, Co, He
11-3121	Human Resources Manager	En, He, Co
11-3131	Training & Development Manager	En, As, He
11-9013.02	Farm & Ranch Manager	En, Pr, Co
11-9013.03	Aquacultural Manager	En, Pr, Co
11-9021	Construction Manager	En, Pr, Co
11-9031	Education Administrator, Preschool & Childcare Center/Program	He, En, Co
11-9141	Property, Real Estate, & Community Association Manager	En, As, Co
11-9151	Social & Community Service Manager	En, As, He
11-9199.01	Regulatory Affairs Manager	En, As, Co
11-9199.02	Compliance Manager	Co, En, Pr
11-9199.04	Supply Chain Manager	En, Co
11-9199.07	Security Manager	En, Co
11-9199.08	Loss Prevention Manager	En, Co, St
11-9199.09	Wind Energy Operations Manager	En, Co, Pr
11-9199.10	Wind Energy Project Manager	En, Co, Inq
11-9199.11	Brownfield Redevelopment Specialist & Site Manager	En, Inq, Co

Graduate Degree		
O*NET Code	Job Title	WP Code
11-1011	Chief Executive	En, As, Co
11-1011.03	Chief Sustainability Officer	En, Co, Inf
11-3031.01	Treasurer & Controller	Co, St, En
11-9032	Education Administrator, Elementary & Secondary School	En, He, Co
11-9033	Education Administrator, Postsecondary	En, Co, He
11-9041	Architectural & Engineering Manager	En, Pr, Lo
11-9111	Medical & Health Service Manager	En, Co, He
11-9121	Natural Sciences Manager	En, Inq, Lo





Graduate Degree		
O*NET Code	Job Title	WP Code
11-9199.03	Investment Fund Manager	En, As, Co
13-1111	Management Analyst	Lo, En, Co

## Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> <li>• <b>AASA, The School Superintendents Association</b> <i>www.aasa.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>American Association of Healthcare Administrative Management</b> <i>www.aaham.org</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>American Management Association</b> <i>www.amanet.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>American Society for Public Administration</b> <i>www.aspanet.org</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>American Society of Association Executives</b> <i>www.asaecenter.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>APICS - The Association for Operations Management</b> <i>www.apics.org</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>Construction Management Association of America</b> <i>http://cmaanet.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Financial Executives International</b> <i>www.financialexecutives.org</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>International Facility Management Association</b> <i>www.ifma.org</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>National Association of Corporate Directors</b> <i>www.nacdonline.org</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>National Management Association</b> <i>https://nma1.org/</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Society for Human Resource Management</b> <i>www.shrm.org</i></li> </ul>
<ul style="list-style-type: none"> <li>• <b>The Law Office Management Association</b> <i>www.tloma.com/</i></li> </ul>	

## Notes

---



---



---



---



---



---

## Machining & Mechanical Trades

Occupations in **Machining & Mechanical Trades** involve repairing mechanical and electrical equipment and operating, controlling, and setting up machines used to prepare, manufacture, and create materials. Responsibilities may include cutting, fitting, shaping, or printing materials, such as metal, paper, wood, and stone, according to required specifications. There are a wide variety of jobs in this field so look to combine your interest in this area with your other interests. Specialized training and apprenticeships are usually available for this type of work. To learn more about the occupations that make up this job group, search the complete O\*NET listings at [www.onetonline.org](http://www.onetonline.org).

High Basic Interest Scales
Skilled Trades
Engineering
Mathematics
Creative Arts
Physical Science

Low Basic Interest Scales
Teaching
Interpersonal Confidence
Mediation & Persuasion

### Job Titles from O\*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O\*NET code and the Work Personality (WP) code associated with the job, if available, are included.

Minimal Education		
O*NET Code	Job Title	WP Code
45-4022	Logging Equipment Operator	Pr, Co, St
51-9022	Grinding & Polishing Worker, Hand	Pr, Co, St

High School Diploma		
O*NET Code	Job Title	WP Code
47-3013	Helper--Electrician	Pr, Co
49-3021	Automotive Body & Related Repairer	Pr
49-3022	Automotive Glass Installer & Repairer	Pr, Co, En
49-3043	Rail Car Repairer	Pr, Co, Lo
49-3053	Outdoor Power Equipment & Other Small Engine Mechanic	Pr, Co
49-3091	Bicycle Repairer	Pr, Co, Lo
49-3092	Recreational Vehicle Service Technician	Pr, Lo, Co
49-3093	Tire Repairer & Changer	Pr, Co
49-9011	Mechanical Door Repairer	Pr
49-9052	Telecommunications Line Installer & Repairer	Pr, En
49-9091	Coin, Vending, & Amusement Machine Servicer & Repairer	Pr, Co



High School Diploma		
O*NET Code	Job Title	WP Code
49-9098	Helper--Installation, Maintenance, & Repair Worker	Pr, Co, Lo
49-9099.01	Geothermal Technician	Pr, Co
51-1011	First-Line Supervisor of Production & Operating Workers	En, Pr, Co
51-2011	Aircraft Structure, Surfaces, Rigging, & Systems Assembler	Pr, Co, St
51-2021	Coil Winder, Taper, & Finisher	Pr, Co, Lo
51-2022	Electrical & Electronic Equipment Assembler	Pr, Co, St
51-2023	Electromechanical Equipment Assembler	Pr, Co, Lo
51-2031	Engine & Other Machine Assembler	Pr, Co, St
51-2092	Team Assembler	Pr, Co, En
51-2093	Timing Device Assembler & Adjuster	Pr, Co, St
51-3091	Food & Tobacco Roasting, Baking, & Drying Machine Operator & Tender	Pr, Co, St
51-3092	Food Batchmaker	Pr, Co, St
51-4021	Extruding & Drawing Machine Setter, Operator, & Tender, Metal & Plastic	Pr, Co
51-4022	Forging Machine Setter, Operator, & Tender, Metal & Plastic	Pr, Co, Lo
51-4023	Rolling Machine Setter, Operator, & Tender, Metal & Plastic	Pr, Co
51-4031	Cutting, Punching, & Press Machine Setter, Operator, & Tender, Metal & Plastic	Pr, Co, St
51-4032	Drilling & Boring Machine Tool Setter, Operator, & Tender, Metal & Plastic	Pr, Co, Lo
51-4033	Grinding, Lapping, Polishing, & Buffing Machine Tool Setter, Operator, & Tender, Metal & Plastic	Pr
51-4034	Lathe & Turning Machine Tool Setter, Operator, & Tender, Metal & Plastic	Pr, Lo, Co
51-4035	Milling & Planing Machine Setter, Operator, & Tender, Metal & Plastic	Pr, Co
51-4051	Metal-Refining Furnace Operator & Tender	Pr, Lo, Co
51-4052	Pourer & Caster, Metal	Pr, Co, St
51-4071	Foundry Mold & Coremaker	Pr, Co
51-4072	Molding, Coremaking, & Casting Machine Setter, Operator, & Tender, Metal & Plastic	Pr, Co, Lo
51-4081	Multiple Machine Tool Setter, Operator, & Tender, Metal & Plastic	Pr
51-4121.07	Solderer & Brazier	Pr
51-4122	Welding, Soldering, & Brazing Machine Setter, Operator, & Tender	Pr, Co
51-4191	Heat Treating Equipment Setter, Operator, & Tender, Metal & Plastic	Pr, Co
51-4192	Layout Worker, Metal & Plastic	Pr, Co, Lo
51-4193	Plating & Coating Machine Setting, Operator, & Tender, Metal & Plastic	Pr, Co, St
51-4194	Tool Grinder, Filer, & Sharpener	Pr, Co

# EXPLORE YOUR FUTURE



High School Diploma		
O*NET Code	Job Title	WP Code
51-5113	Print Binding & Finishing Worker	Pr, Co, St
51-6042	Shoe Machine Operator & Tender	Pr, Co, St
51-6061	Textile Bleaching & Dyeing Machine Operator, & Tender	Pr
51-6062	Textile Cutting Machine Setter, Operator, & Tender	Pr, Co, St
51-6063	Textile Knitting & Weaving Machine Setter, Operator, & Tender	Pr, Co, St
51-6064	Textile Winding, Twisting, & Drawing Out Machine Setter, Operator, & Tender	Pr, Co, St
51-6091	Extruding & Forming Machine Setter, Operator, & Tender, Synthetic & Glass Fibers	Pr
51-8013	Power Plant Operator	Pr, Co
51-9021	Crushing, Grinding, Polishing Machine Setter, Operator, & Tender	Pr, Co, Lo
51-9032	Cutting & Slicing Machine Setter, Operator, & Tender	Pr, Co
51-9041	Extruding, Forming, Pressing, & Compacting Machine Setter, Operator, & Tender	Pr, Co, Lo
51-9051	Furnace, Kiln, Oven, Drier, & Kettle Operator & Tender	Pr, Co, St
51-9111	Packaging & Filling Machine Operator & Tender	Pr, Co, St
51-9121	Coating, Painting, & Spraying Machine Setter, Operator, & Tender	Pr, Co, Lo
51-9122	Painter, Transportation Equipment	Pr, Co
51-9141	Semiconductor Processor	Pr, Co, Lo
51-9191	Adhesive Bonding Machine Operator & Tender	Pr, Co, St
51-9192	Cleaning, Washing, & Metal Pickling Equipment Operator & Tender	Pr, Co
51-9193	Cooling & Freezing Equipment Operator & Tender	Pr, Co, Lo
51-9195.07	Molding & Casting Worker	Pr, Co, St
51-9196	Paper Goods Machine Setter, Operator, & Tender	Pr, Co, St
51-9197	Tire Builder	Pr, Co, St
53-3032	Heavy & Tractor-Trailer Truck Driver	Pr, Co
53-4011	Locomotive Engineer	Pr, Co
53-4012	Locomotive Firer	Pr, Co
53-4021	Railroad Brake, Signal, & Switch Operator	Pr, Co
53-5011	Sailor & Marine Oiler	Pr, Co
53-6051.07	Transportation Vehicle, Equipment & Systems Inspector	Pr, Co, Lo
53-7011	Conveyor Operator & Tender	Pr, Co
53-7031	Dredge Operator	Pr
53-7041	Hoist & Winch Operator	Pr, En, Co
53-7063	Machine Feeder & Offbearer	Pr, Co, St
53-7071	Gas Compressor & Gas Pumping Station Operator	Pr, Co, St
53-7072	Pump Operator	Pr, Co, Lo
53-7073	Wellhead Pumper	Pr, Co, Lo

# EXPLORE YOUR FUTURE



Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
11-3051.02	Geothermal Production Manager	En, Co
27-4011	Audio & Video Equipment Technician	Pr, Lo, Co
27-4012	Broadcast Technician	Pr, Co, St
47-2111	Electrician	Pr, Lo, Co
49-1011	First-Line Supervisor of Mechanics, Installers, & Repairers	En, Co, Pr
49-2021	Radio, Cellular, & Tower Equipment Installer & Repairer	Pr, Co
49.2021.01	Radio Mechanic	Pr, Lo, Co
49-2022	Telecommunications Equipment Installer & Repairer	Pr, Lo, Co
49-2091	Avionics Technician	Pr, Lo, Co
49-2092	Electric Motor, Power Tool, & Related Repairer	Pr, Co, St
49-2093	Electrical & Electronics Installer & Repairer, Transportation Equipment	Pr, Co
49-2094	Electrical & Electronics Repairer, Commercial & Industrial Equipment	Pr, Lo, Co
49-2095	Electrical & Electronics Repairer, Powerhouse, Substation, & Relay	Pr, Co
49-2096	Electronic Equipment Installer & Repairer, Motor Vehicles	Pr, Lo, Co
49-2097	Electronic Home Entertainment Equipment Installer & Repairer	Pr, Co, St
49-3011	Aircraft Mechanic & Service Technician	Pr, Co, Lo
49-3023.01	Automotive Master Mechanic	Pr, Lo
49-3023.02	Automotive Specialty Technician	Pr, Lo, Co
49-3031	Bus & Truck Mechanic & Diesel Engine Specialist	Pr, Co
49-3041	Farm Equipment Mechanic & Service Technician	Pr, Co, Lo
49-3042	Mobile Heavy Equipment Mechanic	Pr, Co
49-3051	Motorboat Mechanic & Service Technician	Pr, Co, Lo
49-3052	Motorcycle Mechanic	Pr
49-9012	Control & Valve Installer & Repairer	Pr, Co, Lo
49-9021.01	Heating & Air Conditioning Mechanic & Installer	Pr, Co, Lo
49-9021.02	Refrigeration Mechanic & Installer	Pr, Co, En
49-9031	Home Appliance Repairer	Pr, Co, Lo
49-9041	Industrial Machinery Mechanic	Pr, Lo, Co
49-9043	Maintenance Worker, Machinery	Pr, Co, Lo
49-9044	Millwright	Pr, Co, Lo
49-9051	Electrical Power-Line Installer & Repairer	Pr, Lo, Co
49-9061	Camera & Photographic Equipment Repairer	Pr, Co, Lo
49-9062	Medical Equipment Repairer	Pr, Lo, Co
49-9063	Musical Instrument Repairer & Tuner	Pr, Ex, Lo
49-9064	Watch Repairer	Pr, Co, Lo
49-9071	Maintenance & Repair Worker, General	Pr, Co, Lo
49-9081	Wind Turbine Service Technician	Pr, Co
49-9097	Signal & Track Switch Repairer	Pr, Co, St
51-2041	Structural Metal Fabricator & Fitter	Pr, Co, St



Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
51-4011	Computer-Controlled Machine Tool Operator, Metal & Plastic	Pr, Co, St
51-4041	Machinist	Pr, Co, Lo
51-4061	Model Maker, Metal & Plastic	Pr, Lo, Co
51-4062	Patternmaker, Metal & Plastic	Pr, Co, Lo
51-4111	Tool & Die Maker	Pr, Lo, Co
51-4121.06	Welder, Cutter, & Welder Fitter	Pr, Co
51-5111	Prepress Technician & Worker	Pr, Co, St
51-5112	Printing Press Operator	Pr, Co, St
51-8021	Stationary Engineer & Boiler Operator	Pr, Lo, Co
51-9082	Medical Appliance Technician	Pr, Lo, He
53-2012	Commercial Pilot	Pr, Inf, En
53-5031	Ship Engineer	Pr, Co, En

Bachelor's Degree		
O*NET Code	Job Title	WP Code
11-3051	Industrial Production Manager	En, As, Co

## Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> <li><b>American Public Power Association</b> <a href="http://www.publicpower.org">www.publicpower.org</a></li> </ul>	<ul style="list-style-type: none"> <li><b>American Welding Society</b> <a href="http://www.aws.org">www.aws.org</a></li> </ul>
<ul style="list-style-type: none"> <li><b>Association of Diesel Specialists</b> <a href="http://diesel.org">http://diesel.org</a></li> </ul>	<ul style="list-style-type: none"> <li><b>Automotive Service Association</b> <a href="http://asashop.org/">http://asashop.org/</a></li> </ul>
<ul style="list-style-type: none"> <li><b>Electronics Technicians Association International</b> <a href="http://www.eta-i.org">www.eta-i.org</a></li> </ul>	<ul style="list-style-type: none"> <li><b>Fabricators &amp; Manufacturers Association, International</b> <a href="http://www.fmanet.org">www.fmanet.org</a></li> </ul>
<ul style="list-style-type: none"> <li><b>Lighting &amp; Sound America</b> <a href="http://www.lightingandsoundamerica.com/">www.lightingandsoundamerica.com/</a></li> </ul>	<ul style="list-style-type: none"> <li><b>Mechanical Contractors Association of America</b> <a href="http://www.mcaa.org">www.mcaa.org</a></li> </ul>
<ul style="list-style-type: none"> <li><b>Millwright Employers Association</b> <a href="http://www.millwrightemployers.org">www.millwrightemployers.org</a></li> </ul>	<ul style="list-style-type: none"> <li><b>Motor &amp; Equipment Manufacturers Association</b> <a href="http://www.mema.com">www.mema.com</a></li> </ul>
<ul style="list-style-type: none"> <li><b>National Association of Manufacturers</b> <a href="http://www.nam.org">www.nam.org</a></li> </ul>	<ul style="list-style-type: none"> <li><b>National Tooling &amp; Machining Association</b> <a href="http://www.ntma.org">www.ntma.org</a></li> </ul>
<ul style="list-style-type: none"> <li><b>Precision Machined Products Association</b> <a href="http://www.pmpa.org">www.pmpa.org</a></li> </ul>	<ul style="list-style-type: none"> <li><b>Printing Industries of America</b> <a href="http://www.printing.org">www.printing.org</a></li> </ul>



Professional Organizations	
<ul style="list-style-type: none"><li>• <b>Professional Aviation Maintenance Association</b> <i>www.pama.org</i></li></ul>	<ul style="list-style-type: none"><li>• <b>Rubber Manufacturers Association</b> <i>https://rma.org/</i></li></ul>
<ul style="list-style-type: none"><li>• <b>Society of Automotive Engineers International</b> <i>www.sae.org</i></li></ul>	<ul style="list-style-type: none"><li>• <b>The Aluminum Association</b> <i>www.aluminum.org</i></li></ul>
<ul style="list-style-type: none"><li>• <b>Truck &amp; Engine Manufacturers Association</b> <i>www.truckandenginemanufacturers.org</i></li></ul>	<ul style="list-style-type: none"><li>• <b>United States Council for Automotive Research</b> <i>www.uscar.org</i></li></ul>

## Notes

---

---

---

---

---

---

---

---

## Primary Education

Occupations in **Primary Education** involve teaching and helping pre-school children and students in elementary schools. These educators teach the fundamentals for a broad range of subjects, including math, literacy, science, social studies, and art. They also promote the physical, mental, and social development of children. Most jobs require teacher education or post-secondary training in child development or early childhood education. To learn more about the occupations that make up this job group, search the complete O\*NET listings at [www.onetonline.org](http://www.onetonline.org).

High Basic Interest Scales
Elementary Education
Social Service
Teaching
Office Work
Personal Service

Low Basic Interest Scales
Physical Science
Engineering
Life Science

### Job Titles from O\*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O\*NET code and the Work Personality (WP) code associated with the job, if available, are included.

High School Diploma		
O*NET Code	Job Title	WP Code
39-9011	Childcare Worker	He, Ex

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
25-2011	Preschool Teacher	He, Ex
25-9041	Teacher Assistant	He, Co, St
39-9011.01	Nanny	He, Ex, En

Bachelor's Degree		
O*NET Code	Job Title	WP Code
11-9031	Education Administrator, Preschool & Childcare Center/Program	He, En, Co
25-2012	Kindergarten Teacher	He, Ex
25-2021	Elementary School Teacher	He, Ex, Co
25-2051	Special Education Teacher, Preschool	He, Ex
25-2052	Special Education Teacher, Kindergarten & Elementary School	He, Ex
25-2059.01	Adapted Physical Education Specialist	He, Pr





Graduate Degree		
O*NET Code	Job Title	WP Code
11-9032	Education Administrator, Elementary & Secondary School	En, He, Co
25-4021	Librarian	Co, He, En
25-9031	Instructional Coordinator	He, Inq, En

## Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> <li><b>American Association for Teaching &amp; Curriculum</b> <a href="http://www.aatchome.org">www.aatchome.org</a></li> </ul>	<ul style="list-style-type: none"> <li><b>American Federation of Teachers</b> <a href="http://www.aft.org">www.aft.org</a></li> </ul>
<ul style="list-style-type: none"> <li><b>American Montessori Society</b> <a href="http://amshq.org/">http://amshq.org/</a></li> </ul>	<ul style="list-style-type: none"> <li><b>Association for Childhood Education International</b> <a href="http://www.acei.org">www.acei.org</a></li> </ul>
<ul style="list-style-type: none"> <li><b>Council for Exceptional Children</b> <a href="http://www.cec.sped.org">www.cec.sped.org</a></li> </ul>	<ul style="list-style-type: none"> <li><b>International Nanny Association</b> <a href="http://nanny.org">http://nanny.org</a></li> </ul>
<ul style="list-style-type: none"> <li><b>National Association for the Education of Young Children</b> <a href="http://www.naeyc.org">www.naeyc.org</a></li> </ul>	<ul style="list-style-type: none"> <li><b>National Association of Special Education Teachers</b> <a href="http://www.naset.org">www.naset.org</a></li> </ul>
<ul style="list-style-type: none"> <li><b>National Child Care Association</b> <a href="http://www.nccanet.org">www.nccanet.org</a></li> </ul>	

## Notes

---



---



---



---



---



---



---