Career clusters are groups of similar occupations and industries. 16 career clusters were identified and developed by the U.S. Department of Education as a way to organize career planning.

Review the clusters and identify the areas in which you are most interested. Select the sample job titles for each cluster that interest you as well. You can find more job titles and detailed information for each job title at O*NET Online (http://www.onetonline.org/find/).

### Agriculture, Food and Natural Resources
*Production, processing, marketing, distribution, financing, and development of agricultural commodities and resources includes food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.*

<table>
<thead>
<tr>
<th><strong>Agribusiness Systems</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Financial Managers, Branch or Department</td>
</tr>
<tr>
<td>Purchasing Agents and Buyers, Farm Products</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Natural Resources Systems</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Cartographers</td>
</tr>
<tr>
<td>Geological and Petroleum Technicians</td>
</tr>
<tr>
<td>Geological Sample Test Technicians</td>
</tr>
<tr>
<td>Natural Sciences Managers</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Animal Systems</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Animal Scientists</td>
</tr>
<tr>
<td>Veterinarians</td>
</tr>
<tr>
<td>Veterinary Technologists and Technicians</td>
</tr>
<tr>
<td>Zoologists and Wildlife Biologists</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Plant Systems</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Foresters</td>
</tr>
<tr>
<td>Soil and Plant Scientists</td>
</tr>
<tr>
<td>Soil and Water Conservationists</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Environmental Service Systems</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental Engineers</td>
</tr>
<tr>
<td>Environmental Science and Protection Technicians, Including Health</td>
</tr>
<tr>
<td>Water and Liquid Waste Treatment Plant and System Operators</td>
</tr>
</tbody>
</table>

### Architecture and Construction
*Designing, planning, managing, building and maintaining of the built environment.*

<table>
<thead>
<tr>
<th><strong>Construction</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction Managers</td>
</tr>
<tr>
<td>First-Line Supervisors/Managers of Construction Trades</td>
</tr>
<tr>
<td>Solar Energy Installation Managers</td>
</tr>
<tr>
<td>Solar Photovoltaic Installers</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Design/Pre-Construction</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Architects, Except Landscape and Naval</td>
</tr>
<tr>
<td>Civil Engineers</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Maintenance/Operations</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Geothermal Technicians</td>
</tr>
<tr>
<td>Stationary Engineers and Boiler Operators</td>
</tr>
<tr>
<td>Wind Turbine Service Technicians</td>
</tr>
</tbody>
</table>

### Arts, Audio/Video Technology and Communications
*Designing, producing, exhibiting, performing, writing and publishing of multimedia content including visual and performing arts and design, journalism and entertainment services.*

<table>
<thead>
<tr>
<th><strong>Audio and Video Technology and Film</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Graphic Designers</td>
</tr>
<tr>
<td>Sound Engineering Technicians</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Journalism and Broadcasting</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Broadcast News Analysts</td>
</tr>
<tr>
<td>Copy Writers</td>
</tr>
<tr>
<td>Editors</td>
</tr>
<tr>
<td>Radio and Television Announcers</td>
</tr>
<tr>
<td>Reporters and Correspondents</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Performing Arts</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Actors</td>
</tr>
<tr>
<td>Choreographers</td>
</tr>
<tr>
<td>Dancers</td>
</tr>
<tr>
<td>Directors- Stage, Motion Pictures, Television, and Radio</td>
</tr>
<tr>
<td>Entertainers and Performers, Sports and Related Workers, Film and Video Editors</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Printed Media</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Desktop Publishers</td>
</tr>
<tr>
<td>Job Printers</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Telematics</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Telecommunications Line Installers and Repairers</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Making Up</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Makeup Artists, Theatrical and Performance</td>
</tr>
<tr>
<td>Music Directors and Composers</td>
</tr>
<tr>
<td>Musicians and Singers</td>
</tr>
<tr>
<td>Musicians, Instrumental</td>
</tr>
<tr>
<td>Producers and Directors</td>
</tr>
<tr>
<td>Program Directors</td>
</tr>
<tr>
<td>Talent Directors</td>
</tr>
<tr>
<td>Technical Directors/Managers</td>
</tr>
<tr>
<td>Writers and Authors</td>
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<table>
<thead>
<tr>
<th><strong>Music</strong></th>
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</thead>
<tbody>
<tr>
<td>Producers and Directors</td>
</tr>
<tr>
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</tr>
<tr>
<td>Talent Directors</td>
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<tr>
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<td>Writers and Authors</td>
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<table>
<thead>
<tr>
<th><strong>Photography</strong></th>
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</thead>
<tbody>
<tr>
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<table>
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Visual Arts
Commercial and Industrial Designers
Craft Artists
Fine Artists, Including Painters, Sculptors, and Illustrators
Multi-Media Artists and Animators
Photographers

Business, Management and Administration
Planning, organizing, directing and evaluating of business functions essential to efficient and productive business operations.

Administrative and Information Support
Legal Secretaries
Library Assistants, Clerical
Medical Secretaries
New Accounts Clerks
Order Fillers, Wholesale and Retail Sales
Public Relations Specialists

Business Analysis
Budget Analysts
Energy Auditors
Management Analysts
Operations Research Analysts
Sustainability Specialists

Business Financial Management and Accounting
Accountants and Auditors
Bookkeeping, Accounting, and Auditing Clerks
Chief Executives
Financial Managers
Treasurers and Controllers

Human Resources
Compensation and Benefits Managers

Marketing
Advertising and Promotions Managers
Advertising Sales Agents
Art Directors
Marketing Sales Managers

Education and Training
Planning, managing and providing education and training services and related learning support services.

Education Administrators
Instructional Coordinators

Professional Support Services
Clinical, Counseling, and School Psychologists
Educational, Vocational, and School Counselors
Instructional Designers and Technologists
Librarians

Teaching/Training
Adaptive Physical Education Specialists
Adult Literacy, Remedial Education, and GED Teachers and Instructors

Anthropology and Archeology Teachers, Postsecondary
Architecture Teachers, Postsecondary
Archivists
Coaches and Scouts
Communications Teachers, Postsecondary
Computer Science Teachers, Postsecondary
Curators
Special Education Teachers
Teachers and Instructors
Vocational Education Teachers

Finance
Planning, services for financial and investment planning, banking, insurance and business financial management.

Banking and Related Services
Credit Analysts
Loan Officers
Title Examiners, Abstractors, and Searchers

Business Financial Management
Financial Analysts
Financial Quantitative Analysts
Fraud Examiners, Investigators and Analysts

Financial and Investment Planning
Brokerage Clerks
Investment Fund Managers
Investment Underwriters

Personal Financial Advisors
Risk Management Specialists
Sales Agents, Financial Services
Securities and Commodities Traders
Securities, Commodities, and Financial Services Sales Agents
Tax Preparers

Insurance Services
Actuaries
Claims Adjusters, Examiners, and Investigators
Insurance Sales Agents
Insurance Underwriters

Government and Public Administration
Governmental functions including Governance; National Security; Foreign Service, Planning: Revenue and Taxation; Regulation; and Management and Administration at the local, state, and federal levels.

**Governance**
- Legislators

**Planning**
- Climate Change Analysts
- Economists
- Urban and Regional Planners

**Public Management and Administration**
- Court Clerks
- Postmasters and Mail Superintendents

**Regulation**
- Compliance Officers
- Coroners
- Detectives and Criminal Investigators
- Financial Examiners
- Government Property Inspectors and Investigators
- Licensing Examiners and Inspectors

**Revenue and Taxation**
- Appraisers and Assessors of Real Estate
- Tax Examiners, Collectors, and Revenue Agents

**Health Science**
*Planning, managing and providing therapeutic services, diagnostic service, health informatics, support services, and biotechnology research and developments.*

**Biotechnology Research and Development**
- Biomedical Engineers
- Clinical Data Managers
- Clinical Research Coordinators
- Medical Scientists

**Diagnostic Services**
- Medical and Clinical Laboratory Technologists
- Nuclear Medicine Technologists
- Ophthalmic Medical Technologists and Technicians
- Radiologic Technologists and Technicians

**Health Informatics**
- Epidemiologists
- Health Educators
- Informatics Nurse Specialists
- Medical Transcriptionists

**Support Services**
- Mental Health and Substance Abuse Social Workers
- Patient Representatives

**Therapeutic Services**
- Acupuncturists
- Allergists and Immunologists
- Anesthesiologists
- Athletic Trainers
- Audiologists
- Chiropractors
- Critical Care Nurses
- Dental Hygienists
- Dentists
- Dermatologists
- Dietitians and Nutritionists
- Family and General Practitioners
- Genetic Counselors
- Hospitalists
- Internists, General
- Midwives
- Naturopathic Physicians
- Neuropsychologists and Clinical Neuropsychologists
- Nurse Practitioners
- Obstetricians and Gynecologists
- Occupational Therapists
- Ophthalmologists
- Optometrists
- Orthodontists
- Orthotists and Prosthetists
- Pathologists
- Pharmacists
- Physical Therapists
- Physician Assistants
- Podiatrists
- Psychiatrists
- Psychologists
- Registered Nurses
- Respiratory Therapists
- Speech-Language Pathologists
- Surgeons

**Hospitality and Tourism**
*Management, marketing and operation of restaurants and other food services, lodging, attractions, recreation events and travel related services.*

**Lodging**
- Concierges
- First-Line Supervisors/Managers
- Lodging Managers

**Recreation, Amusements and Attractions**
- Animal Trainers
- Athletes and Sports Competitors
- Museum Technicians and Conservators
- Self-Enrichment Education Teachers
- Set and Exhibit Designers
- Umpires, Referees, and Other Sports Officials

**Restaurants and Food/Beverage Services**
- Bakers
- Bartenders
- Chefs and Head Cooks
- Food Service Managers
- Waiters and Waitresses

**Travel and Tourism**
- Interpreters and Translators
- Meeting and Convention Planners
- Reservation and Transportation Ticket Agents and Travel Clerks
- Travel Agents
- Travel Guides
Human Services
Careers related to serving families and a wide range of human needs.

Consumer Services
Loan Counselors
Property, Real Estate, and Community Association Managers

Counseling and Mental Health Services
Marriage and Family Therapists
Mental Health Counselors
Rehabilitation Counselors
Social and Community Service Managers
Substance Abuse and Behavioral Disorder Counselors

Early Childhood Development and Services
Child Care Workers
Family and Community Services

Information Technology
Careers related to the design, development, support and management of hardware, software, multimedia and systems integrations systems.

Information Support and Services
Business Intelligence Analysts
Computer Support Specialists
Computer Systems Engineers/Architects
Document Management Specialists
Information Technology Project Managers
Web Administrators

Network Systems
Computer Security Specialists
Data Warehousing Specialists
Database Administrators
Database Architects

Programming and Software Development
Computer and Information Systems Managers
Computer Programmers
Computer Software Engineers
Computer Systems Analysts
Software Quality Assurance Engineers and Testers
Video Game Designers
Web Developers

Law, Public Safety, Corrections and Security
Planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services.

Correction Services
Correctional Officers and Jailers
Probation Officers and Correctional Treatment Specialists
Social Workers, All Other

Emergency and Fire Management Services
Emergency Management Specialists
Emergency Medical Technicians and Paramedics
Fire Fighters
Fire Investigators

Law Enforcement Services
Criminal Investigators and Special Agents
Forensic Science Technicians
Police and Sheriff's Patrol Officers
Police Detectives

Transportation Security Officers

Legal Services
Administrative Law Judges, Adjudicators, and Hearing Officers
Arbitrators, Mediators, and Conciliators
Law Clerks
Lawyers
Paralegals and Legal Assistants

Security and Protective Services
Intelligence Analysts
Loss Prevention Managers
Private Detectives and Investigators
Security Management Specialists
Security Managers

Manufacturing
Planning, managing and performing the processing of materials into intermediate or final products and related technical support activities such as production planning and control, maintenance and manufacturing/process engineering.

Production
Biofuels Processing Technicians
Biomass Plant Technicians
Chemical Plant and System Operators
Computer-Controlled Machine Tool Operators, Metal and Plastic
Glass Blowers, Molders, Benders, and Finishers
Grinding and Polishing Workers, Hand

Industrial Engineering Technicians
Industrial Production Managers
Mechanical Engineering Technicians
Nuclear Power Reactor Operators
Numerical Tool and Process Control Programmers
Purchasing Agents, Except Wholesale, Retail, and Farm Products
Semiconductor Processors
Marketing, Sales and Service
Planning, managing, and performing marketing activities to reach organizational objectives.

Buying and Merchandising
- Appraisers, Real Estate
- Electronic Commerce Specialists
- Fashion Designers
- Real Estate Brokers
- Real Estate Sales Agents
- Sales Representatives
- Wholesale and Retail Buyers

Marketing Information Management and Research
- Market Research Analysts

Professional Sales and Marketing

Science, Technology, Engineering and Mathematics
Planning, managing, and providing scientific research and services including laboratory and testing services and research and development services.

Engineering and Technology
- Aerospace Engineers
- Architectural and Civil Drafters
- Biochemical Engineers
- Chemical Engineers
- Computer Hardware Engineers
- Electrical Engineers
- Energy Engineers
- Engineering Managers
- Fuel Cell Engineers
- Industrial Engineers
- Logistics Engineers
- Manufacturing Engineers
- Marine Engineers and Naval Architects
- Materials Engineers
- Mechanical Engineers
- Nanosystems Engineers
- Nuclear Engineers
- Petroleum Engineers
- Product Safety Engineers
- Quality Control Systems Managers
- Robotics Engineers
- Solar Energy Systems Engineers
- Technical Writers
- Transportation Engineers

Science and Math
- Atmospheric and Space Scientists
- Biochemists and Biophysicists
- Biofuels/Biodiesel Technology and Product Development Managers
- Bioinformatics Scientists
- Biostatisticians
- Chemists
- Environmental Economists
- Environmental Restoration Planners
- Geospatial Information Scientists and Technologists
- Hydrologists
- Industrial Ecologists
- Materials Scientists
- Microbiologists
- Molecular and Cellular Biologists
- Non-Destructive Testing Specialists
- Park Naturalists
- Quality Control Analysts
- Statisticians
- Survey Researchers
- Water Resource Specialists

Transportation, Distribution and Logistics
Planning, management, and movement of people materials, and goods by road, pipeline, air, rail and water and support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

Health, Safety and Environmental Management
- Industrial Safety and Health Engineers

Logistics Planning and Management Services
- Logistics Analysts
- Logistics Managers

Sales and Service
- Cargo and Freight Agents

Transportation Operations
- Air Traffic Controllers
- Airfield Operations Specialists
- Airline Pilots, Copilots, and Flight Engineers
- Ship Engineers
- Subway and Streetcar Operators

Transportation Systems/Infrastructure Planning, Management and Regulation
- Aviation Inspectors
- Customs Brokers
- Freight and Cargo Inspectors
- Transportation Planners

Warehousing and Distribution Center Operations
- First-Line Supervisors/Managers of Transportation and Material-Moving
- Machine and Vehicle Operators
- Laborers and Freight, Stock, and Material Movers, Hand
- Shipping, Receiving, and Traffic Clerks
- Storage and Distribution Managers
- Supply Chain Managers
- Tank Car, Truck, and Ship Loaders