

# AGRICULTURE, FOOD, & NATURAL RESOURCES

People who work in this career cluster produce the food we eat, care for our animals, maintain our natural resources, and research our environment. This career cluster is great for anyone who likes working outdoors, is concerned with our environment and the food we eat, or loves working with animals.



**HIGH SCHOOL**



**ASSOCIATE'S**



**BACHELOR'S**



**MASTER'S**








**DOCTORATE**

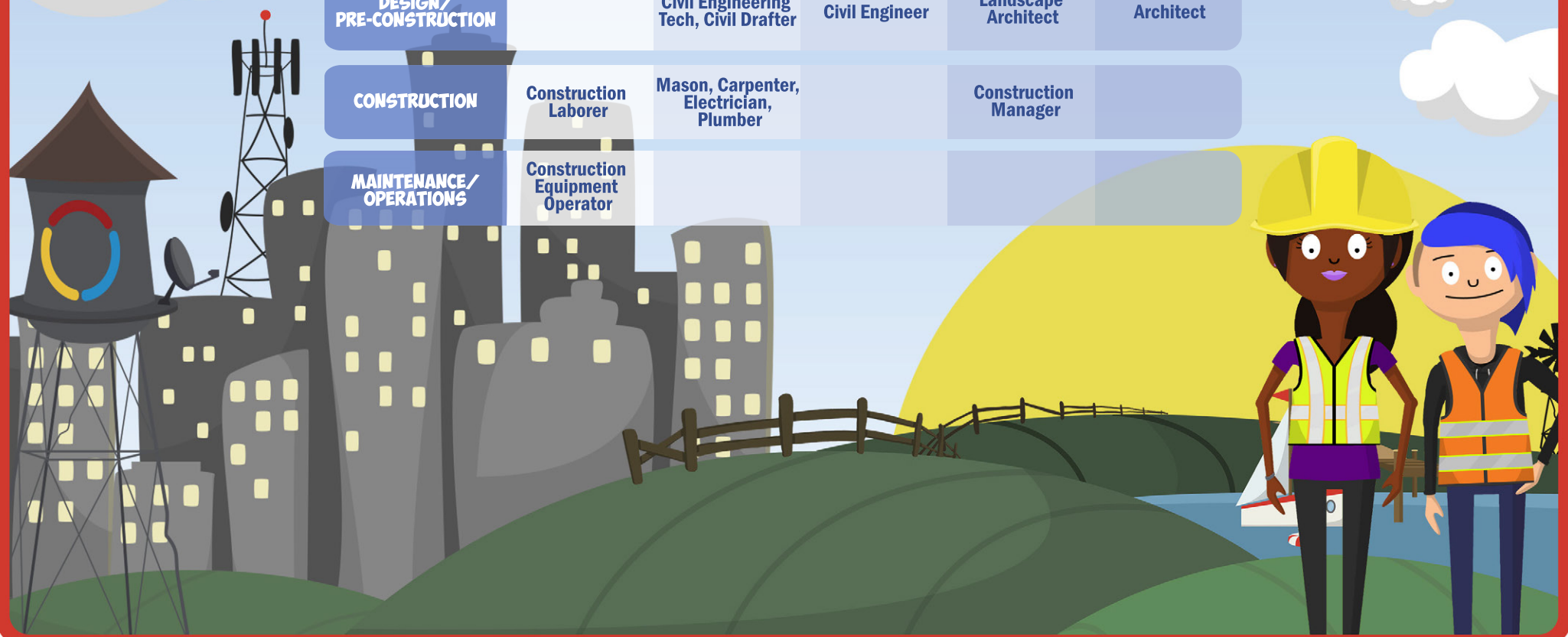
	HIGH SCHOOL	ASSOCIATE'S	BACHELOR'S	MASTER'S	DOCTORATE
<b>FOOD PRODUCTS &amp; PROCESSING SYSTEMS</b>	Agricultural Inspector		Food Scientist		
<b>PLANT SYSTEMS</b>			Soil & Plant Scientist		
<b>ANIMAL SYSTEMS</b>		Veterinary Tech	Animal Scientist		Veterinarian
<b>POWER, STRUCTURAL, &amp; TECHNICAL SYSTEMS</b>		Gas Plant Operator	Petroleum Technician		
<b>NATURAL RESOURCE SYSTEMS</b>		Forest & Conservation Technician	Conservation Scientist	Biochemist	
<b>ENVIRONMENTAL SERVICE SYSTEMS</b>	Landscaper & Groundskeeper	Pest Control Worker	Environmental Engineer		
<b>AGRIBUSINESS SYSTEMS</b>	Farm Laborer	Farm & Ranch Manager			



# ARCHITECTURE & CONSTRUCTION

These career paths involve the building of structures, from design and development to construction and maintenance. This includes new structures, restorations, additions, alterations and repairs. The jobs range from laborers in fields such as commercial and residential construction to craftsmen and skilled laborers and up to engineers who design and oversee the implementation of complex construction projects.

	 HIGH SCHOOL	 ASSOCIATE'S	 BACHELOR'S	 MASTER'S	 DOCTORATE
DESIGN/ PRE-CONSTRUCTION		Civil Engineering Tech, Civil Drafter	Civil Engineer	Landscape Architect	Architect
CONSTRUCTION	Construction Laborer	Mason, Carpenter, Electrician, Plumber		Construction Manager	
MAINTENANCE/ OPERATIONS	Construction Equipment Operator				



# ARTS, A/V TECHNOLOGY, & COMMUNICATIONS

This industry encompasses a diverse array of jobs that require creativity, performance ability, and technical skills. It focuses on careers in designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services. Some career paths require creative imagination, such as fine artists and graphic designers. Others require skill training, such as web developers and film editors. New technological developments regularly reshape the boundaries and skill sets of artistic careers. Success in many of these roles relies on problem-solving abilities, interpersonal skills, and the capacity to work across many disciplines.









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<b>AUDIO/VIDEO COMMUNICATIONS TECHNICIANS</b>	Audio/Video Communications Technicians	Video Equipment Technician		Film Director	
<b>BROADCASTING, FILM &amp; JOURNALISM</b>	Radio & Television Announcer	Photographer		News Analyst	
<b>PERFORMING ARTS</b>	Printing Machine Operator	Makeup Artist	Set & Exhibit Designer	Theater Director	
<b>PRINTING TECHNOLOGY</b>	Personal Care Aid	Desktop Publisher	Editor	Editor	
<b>TELECOMMUNICATION</b>	Equipment Installer & Repairer		Commercial & Industrial Designer		
<b>VISUAL ARTS</b>	Craft Artist	Graphic Designer		Art Director	Art Professor



# BUSINESS, MANAGEMENT, & ADMINISTRATION






Careers in this industry include business management, international trade, and various financial services, such as accounting, banking, and investing. Concepts include accounting and finance, computer applications, taxes, investments, as well as international business and business management. Almost every organization has a financial and management component, allowing many career paths in addition to those in the business and finance industry.

		 HIGH SCHOOL	 ASSOCIATE'S	 BACHELOR'S	 MASTER'S	 DOCTORATE
MANAGEMENT				Manager	Operations Manager	Executive
BUSINESS FINANCIAL MANAGEMENT & ACCOUNTING		File Clerk	Bookkeeper		Accountant	
HUMAN RESOURCES		Human Resources Assistant		Human Resource Specialist	Human Resources Manager	
BUSINESS ANALYSIS		Data Entry Keyer			Management Analyst	
MARKETING		Customer Service				
ADMINISTRATION & INFORMATION SUPORT		Receptionist	Administrative Assistant			



# EDUCATION & TRAINING

This sector includes careers in education and training in a variety of settings that offer academic, vocational and technical instruction and education services. This includes of course teachers and administrators but also many careers that support child development and social services that enable education. These may include social workers and aides, as well as counselors and instructional designers. High staffing needs and growing emphasis on improving education for all students will create many and varied career opportunities in this field.

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<b>TEACHING AND TRAINING</b>	Child Care Worker, Childcare Center, Owner/Director	Teacher Assistant, Preschool Teacher, Coach	School Teacher	School Guidance Counselor	College Professor
<b>PROFESSIONAL SUPPORT SERVICES</b>	Library Technician			Instructional Designer	
<b>ADMINISTRATION AND ADMINISTRATIVE SUPPORT</b>	Library Assistant			Librarian	



# FINANCE

People who work in finance keep track of money. Finance workers prepare taxes, keep financial records, or advise businesses and individuals on how to spend their money wisely. This career cluster is good for anyone who loves math, organization, and detail.









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FINANCIAL AND INVESTMENT PLANNING		Tax Preparer	Budget Analyst Personal Financial Advisor	Financial Manager	Economist
BUSINESS FINANCIAL MANAGEMENT			Accountant		
BANKING AND RELATED SERVICES	Teller	Brokerage Clerk	Loan Officer	Financial Analyst	
INSURANCE SERVICES	Insurance Clerk	Insurance Adjuster	Insurance Underwriter	Actuary	



# GOVERNMENT & PUBLIC ADMINISTRATION

This sector involves jobs in government, national security, foreign service, public administration, public safety, emergency and fire management, security and protective services, law enforcement, legal, and human services. Careers in public service center on challenging issues involving public safety and vital service from local to international areas. Growth in this industry sector is expected to be steady due to heightened interest in homeland and border security, social equity, and the retirement of workers from the baby-boom generation. Many positions require certification and/or licensing.

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<b>GOVERNANCE</b>				Legislator		
<b>NATIONAL SECURITY</b>		All Enlisted Military			Emergency Management Director	
<b>FOREIGN SERVICE</b>				Legislator		
<b>PLANNING</b>			Campaign Manager		Urban and Regional Planner	
<b>REVENUE AND TAXATION</b>		Meter Reader				
<b>REGULATION</b>		Eligibility Interviewer	Compliance Officer			Lawyer
<b>PUBLIC MANAGEMENT AND ADMINISTRATION</b>		Postal Service Mail Carrier				Judge



# HEALTH SCIENCE

This sector includes careers in planning, managing, and providing health care and research. It continues to be one of the fastest-growing occupational fields. The potential careers offer many options for different interests, abilities, and academic achievement, from health aids to tech positions to medical doctors. Most positions require certification and/or licensing.



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THERAPEUTICS	Home Health Aid, Nursing Assistant, Psychiatric Aide	Licensed Practical Nurse, Dental Hygienist	Registered Nurse, Occupational Therapist	Physician Assistant, Physical Therapist	Physician, Pharmacist, Psychiatrist
INFORMATION	Healthcare Support Worker	Medical Records Tech, Medical Transcriptionist	Biomedical Engineer	Health Educator	
ENVIRONMENTAL				Epidemiologist	
DIAGNOSTIC		Medical Records Tech, Medical Transcriptionist	Medical Laboratory Technologist		





# HOSPITALITY & TOURISM

This industry includes careers in the management, operations and marketing of restaurants, other food services, lodging, attractions, recreation events and travel-related services. This is a fast-growing field with educational requirements ranging from high school education to four-year and higher degrees. Apprenticeship and internship programs as well as technical schools are often involved in educating for these careers. Many positions prefer or require certification.



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**RESTAURANT AND FOOD/BEVERAGE SERVICES**

Waiter, Restaurant Cook

Chef

Dietician, Nutritionist

**LODGING**

Concierge

Hotel Clerk

Meeting and Convention Planner

Hotel Manager

**TRAVEL AND TOURISM**

Bellhop

Travel Agent, gaming dealer

**RECREATION, AMUSEMENT AND ATTRACTIONS**






Umpire, Referee, Carnival Ride Attendant

Historian



# HUMAN SERVICES

These jobs help families meet their basic needs. People in human services help those who are facing poverty, crisis, family issues, or mental health issues. This career cluster is great for people who are patient, caring, and interested in working with those in need.

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<b>EARLY CHILDHOOD DEVELOPMENT &amp; SERVICES</b>	Child Care Worker	Teacher Assistant, Preschool Teacher	Elementary School Teacher		
<b>COUNSELING &amp; MENTAL HEALTH SERVICES</b>				Mental Health Counselor	Clinical Psychologist
<b>FAMILY &amp; COMMUNITY SERVICES</b>	Funeral Attendant	Social & Human Service Assistant	Child & Family Social Worker	Sociologist	Clergy
<b>PERSONAL CARE SERVICES</b>	Personal Care Aid				
<b>CONSUMER SERVICES</b>	Tailor	Hair Stylist			



# INFORMATION TECHNOLOGY

The ICT field requires employees who can understand, manage, design, develop, and support rapidly evolving computer, software, networking, telecommunications, Internet, programming, and information systems. ICT careers are available in almost every industry. Skills for evaluating data, the ability to work with and manage people, and clear communication are important components for success. Most jobs require a bachelor's degree or higher.



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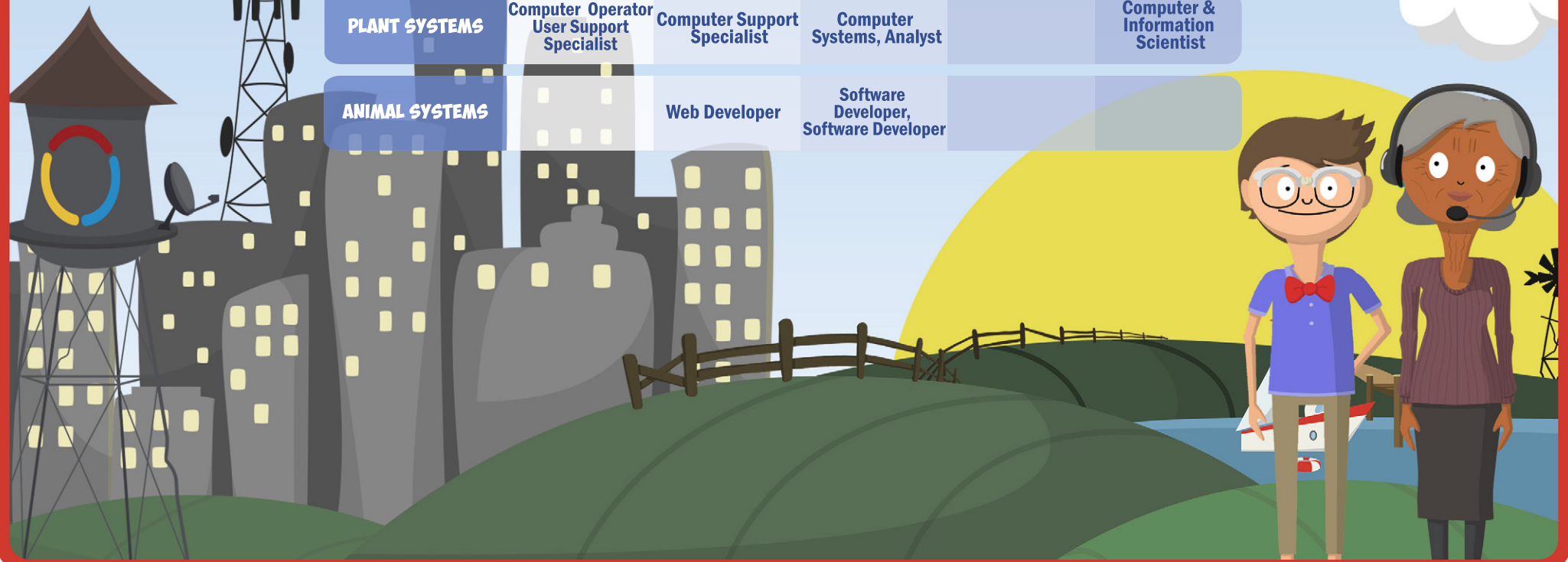
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	HIGH SCHOOL	ASSOCIATE'S	BACHELOR'S	MASTER'S	DOCTORATE
FOOD PRODUCTS & PROCESSING SYSTEMS			Computer Network Architects Network	Information Systems Manager	
PLANT SYSTEMS	Computer Operator User Support Specialist	Computer Support Specialist	Computer Systems, Analyst		Computer & Information Scientist
ANIMAL SYSTEMS		Web Developer	Software Developer, Software Developer		



# LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY

People who work in security are entrusted with keeping us safe and making our legal system work. These careers include law enforcement, firefighters, and detectives, among other jobs. This career cluster is good for anyone who wants to work with people and keep our communities safe.



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CORRECTION SERVICES	Correctional Officer	Probation Officer			Federal Prison Warden
EMERGENCY AND FIRE MANAGEMENT SERVICES	Emergency Dispatcher, Firefighter	Fire Inspector		Security Specialist	
SECURITY AND PROTECTIVE SERVICES	Security Guard, Crossing Guard, Lifeguard	Private Detective	FBI agent		
LAW ENFORCEMENT SERVICES	Animal Control, Parking Enforcement	Police Officer, Bailiff, Fish and Game Warden	Criminal Investigator		Lawyer
LEGAL SERVICES		Paralegal, Court Reporter	Judicial, Law, Clerk	Arbitrator	



# TRANSPORTATION, DISTRIBUTION & LOGISTICS

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<b>TRANSPORTATION OPERATIONS</b>	Delivery Truck Driver, Bus Driver, Taxi Driver, Sailor	Truck Driver, Locomotive Engineer		Airline Pilot	
<b>LOGISTICS PLANNING AND MANAGEMENT</b>		Air Traffic Controller			Architectural & Engineering Manager
<b>WAREHOUSING AND DISTRIBUTION CENTER OPERATIONS</b>	Cargo Agent	Aircraft Cargo Handling			
<b>FACILITY AND MOBILE EQUIPMENT MAINTENANCE</b>	Bicycle Repairer	Auto Mechanic Aircraft Mechanic			
<b>TRANSPORTATION SYSTEMS, INFRASTRUCTURE PLANNING,</b>	Dispatcher	Transportation Inspector	Aerospace Engineer		
<b>HEALTH, SAFETY AND ENVIRONMENTAL MANAGEMENT</b>	Emergency Dispatcher				
<b>SALES AND SERVICE</b>	Parking Lot Attendant	Flight Attendant			



# MANUFACTURING

This industry focuses on planning, managing, and performing the processing of materials into products and related support activities such as production planning and control, maintenance, and manufacturing, engineering, graphic communications, and graphic design. Products include every aspect of the economy including computers, communications equipment, electronic components, apparel, metal products, chemicals, plastics, aircraft, space products, just to name a few. Many positions require certification, and some require licensing.



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PRODUCTION	Factory Worker	Welder			
PRODUCTION PLANNING & CONTROL			Industrial Production Manager	Labor Relations Specialist	
MANUFACTURING ENGINEERING		Machinist	Industrial Engineer		Chemical Engineer
INDUSTRIAL MAINTENANCE	Maintenance Worker	Industrial Machinery Mechanic			



# MARKETING SALES & SERVICE

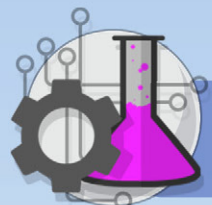
Marketing includes the processes and techniques of identifying, promoting, and transferring products or services to consumers and is a function of almost every business. It exists within an environment of rapidly changing technology, interdependent nations and economies, and increasing demands for ethical and social responsibility. Careers in marketing range from retail sales people to top executives. Excellent communication and customer service skills are essential to many jobs in this industry.

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 MANAGEMENT AND ENTREPRENEURSHIP	Mode, Door-to-Door Sales	Real Estate Agent		Marketing Manager	
PROFESSIONAL SALES AND MARKETING	Retail Salesperson, Cashier	Advertising Sales Agent		Sales Manager	
PROFESSIONAL SALES	Merchandise Displayers and Window Trimmers				
BUYING AND MERCHANDISING	Product Promoter			Purchasing Manager	
MARKETING COMMUNICATIONS AND PROMOTION		Photographer	Public Relations Specialist		
MARKETING INFORMATION MANAGEMENT AND RESEARCH			Market Research Analyst, Marketing Specialists		Marketing Data Scientist
DISTRIBUTION AND LOGISTICS	Stock Clerk and Order Filler				
E-MARKETING	Telemarketer				



# SCIENCE, TECHNOLOGY, ENGINEERING, & MATHEMATICS

This industry includes many high-level careers that involve math and science skills. Engineers and planners impact almost every segment of human life, from the buildings we live and work in, to the systems that give us power and transportation capabilities. Math and science education, as well as a creative problem-solving skills, are vital for success in these jobs. Most positions require certification, licensing and/or a college degree.



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**FOOD PRODUCTS & PROCESSING SYSTEMS**

Chemical Technician, Nuclear Technician

Zoologist, Space Scientist, Chemist

Archeologist, Mathematician, Geographer

Microbiologist, Astronomer, Physicist

**ENGINEERING AND TECHNOLOGY**

Waste Treatment Plant Operator

Civil Engineering Tech

Electrical Engineer, Nuclear Engineer

