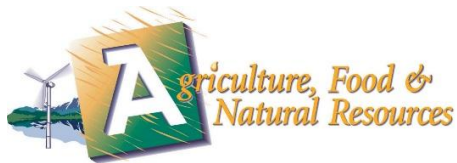


Career Pathways And Job Shadowing Contacts



Explore the Agriculture and Natural Resources Career Pathway

Do you have a green thumb?

Do you enjoy working with plants and animals?

Are you interested in geology and mining?

Are you passionate about protecting the environment?

Do you have physical dexterity?

Do you enjoy an outdoor work environment?

If you answered yes to two or more of the questions above, you might enjoy a career in agriculture and natural resources. One of the following jobs might be a great fit for you:

- Mining engineer
- Aqua culturist
- Animal breeder
- Logger
- Fish and game warden
- Groundskeeper
- Greenhouse manager
- Golf Course Superintendent
- Farm manager

Career Pathways in Agriculture and Natural Resources

The agriculture and natural resources career has five pathways: agriculture management, production, and operations; horticulture, landscaping, and grounds keeping; agriculture sciences, processes and support services; mining and operations; and conservation and natural resources.

Agriculture Management, Production, and Operations

This pathway covers all occupations necessary for running a farm, ranch, or aquaculture farm. Occupations include farmer, farm manager, aqua culturist, animal handler, meat cutter, and agricultural product inspector.

Horticulture, Landscaping, and Grounds keeping

Jobs in this pathway involve designing and tending plants and landscapes in the human environment. Jobs include landscape architect, lawn maintenance worker, groundskeeper, nursery worker, irrigation worker, and pest control service worker.

Agriculture Sciences, Processes, and Support Services

The jobs in this pathway help make farming possible by taking care of food safety, animal breeding and health, and farming efficiency. Jobs include agriculture researcher, viticulturist, food science and processing worker, and veterinarian.

Mining and Operations

This pathway encompasses the jobs involved in building and operating mines and gas and oil wells. Jobs include mining engineer, well driller, mining equipment operator, geologist, mining inspector, petroleum technician, and derrick operator

Conservation and Natural Resources

This pathway focuses on using and conserving our natural resources. Jobs include commercial fishery worker, conservation manager, fish and game warden, logger, and soil and land preservation worker.

Employment Outlook

Employment opportunities will continue to increase for those who provide and market an expanding array of food, forest, and veterinary medical consumer products to a growing world population.

Continued globalization of the food, agricultural and natural resources system will increase opportunities for graduates who understand the socio-economic factors that define international markets. Graduates who know how to satisfy the diverse consumer needs and preferences in different cultures, and who have the language skills to communicate effectively, will have the best opportunities to be employed by the growing number of multi-national businesses.



Greenhouse Manager

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Explore the Architecture and Construction Career Pathway

Are you good at making designs or models?
Can you visualize projects in your mind?
Do you enjoy beautiful and historic buildings?
Are you good with plans and blueprints?
Are you good with your hands?
Would you enjoy designing a park or garden?

If you answered yes to two or more of the questions above, you'll probably enjoy exploring the architecture and construction career cluster. This cluster includes jobs such as:

- Architect
- Electrician
- Architectural restorer
- Brick mason
- Surveyor
- Landscape Architect
- Urban Planner
- Drafter

Career Pathways in Architecture and Construction

The architecture and construction career has three pathways: preconstruction and design, construction, and maintenance and operations.

Preconstruction and Design

This pathway encompasses all the jobs that are done before a project can be built, including architect, civil engineer, cost estimator, contractor, developer, highway engineer, surveyor, specification writer, and urban planner.

Construction

The construction pathway includes all the jobs involved in actual construction, from demolition to finish carpentry. Jobs include bricklayer, construction worker, demolition worker, heavy equipment operator, drywall installer, mason, and lather, floor covering installer, pipefitter, rigger, and welder.

Maintenance and Operations

This pathway contains all the jobs related to maintaining, repairing, and upgrading structures; such as electrician, plumber, painter, HVAC mechanic, building inspector, and architectural historian.

Employment Outlook

Architecture and construction comprise one of the largest industries in the United States. Based on the latest statistics, this career cluster has 13.8 million jobs. In the next few years, many new jobs will be added and many employment opportunities will result from the need to replace experienced workers who leave jobs.



Architects and Drafters

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Chamlin and Associates

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Explore the Arts, Audio/Video Technology, and Communications Career Pathway

Are you interested in working in television, film, or radio?

Do you like to perform or interpret music?

Does computer graphics or computer animation interest you?

Do you like to work with technology?

Do you have a talent for writing?

Are you visually oriented?

Is artistic expression important to you?

Do you enjoy the limelight?

Are you tenacious?

If you answered yes to two or more of the questions above, you're probably cut out for the AAVC career cluster. Perhaps you'd enjoy one of these careers:

- Audio designer
- Museum curator
- Commercial artist
- Musician
- Cable TV engineer
- Journalist
- Animator
- Broadcast technician
- Actor

Career Pathways in Arts, Audio/Video Technology, and Communications

The arts, audio/video technology, and communications career has six pathways: visual arts, performing arts, audio/video technology, journalism and broadcasting, telecommunications technologies, and printing technology.

Visual Arts

There are more than 300,000 visual artists in the United States, including fine artists, commercial artists, curators, photographers, videographers, fashion designers, and art instructors.

Performing Arts

This pathway includes not only performers, but also all the behind-the-scenes workers who make performances possible. Jobs include production manager, cinematographer, dancer, playwright, director, actor, musician, make-up artist, costume designer, sound effects technician, stage lighting, composer, and conductor.

Audio/Video Technology

This pathway involves the technology used to produce tape recorders, VCRs, DVD players, special effects, and more. Jobs include audio systems technician, technical computer support technician for stage or screen, audio/video engineer, computer graphics animator, and video systems technician.

Journalism and Broadcasting

This pathway encompasses everyone involved in journalism for print or broadcast outlets, including control room technicians, station managers, radio and TV announcers, publishers, editors, reporters, anchor people, and broadcast technicians.

Telecommunications Technologies

This pathway includes jobs designing, manufacturing, installing, and repairing telecommunications equipment. Jobs include telecommunication technician, cable installer, telephone line repairer, and telecommunication computer programmer.

Printing Technology

This pathway involves the technology used to print newspapers, books magazines, brochures, and more. Jobs include printing equipment operator, lithographer, desktop publishing specialist, and Web page designer.



Technology/Communications

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LKCS (formerly Letterkraft Printers)

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Historian

Hegler Carus Foundation

Tricia Kelly

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Explore the Business and Administration Career Pathway

Are you good at working with numbers?

Are you good at working with other people?

Are you a natural leader?

Are you entrepreneurial?

Do you have a talent for organizing and planning?

Are you precise, responsible, and creative?

Did you answer yes to two or more of these questions? If so, business and administration may be a good choice for you. This career cluster includes a wide variety of occupations, including:

- Accountant
- Human resources manager
- Administrative assistant
- Information systems manager
- Management analyst
- Marketing manager
- Receptionist
- Interviewer

Career Pathways in Business and Administration

The business and administration career comprises six pathways: financial management and accounting, human resources, administrative and information support, business analysis, management, and marketing and communications.

Financial Management and Accounting

Workers in this pathway perform a company's financial operations, tracking sales and expenses, planning budgets, handling invoicing, receiving payments, preparing tax statements, and more. Jobs include auditor, accountant, tax examiner, bookkeeping clerk, and auditing clerk.

Human Resources

This pathway focuses on the management of people. Jobs include labor relations manager, personnel manager, industrial-organizational psychologist, and human resources manager.

Administrative and Information Support

Workers in this pathway help a company operate efficiently. Jobs include receptionist, secretary, mail clerk, information systems manager, transcriptionist, database manager, office manager, and records clerk.

Business Analysis

This pathway covers any activity that helps people understand how a particular aspect of a business works. Workers in this pathway include management consultants, management analysts, operations analysts, systems analysts, and business analysts.

Management

Management is the direction or control of a business or enterprise. Management occupations include administrative manager, restaurant manager, hotel manager, marketing manager, advertising manager, small business entrepreneur, and retail manager.

Marketing and Communications

Workers in this pathway help their firms market and sell products and services more effectively. Jobs include marketing assistant, market researcher, marketing manager, marketing director, public relations specialist, product developer, and promotions manager.

Employment Outlook

Nearly half of all jobs are in managerial and professional occupations, and nearly one-fourth of all workers are self-employed. The business management and administration services industry is one of the highest-paying industries. In the next few years, many new jobs will be added and many openings will result from the need to replace experienced workers who leave jobs.



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Non-Profit Management

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Explore the Education and Training Career Pathway

Do you enjoy teaching others?

Are you patient?

Are you comfortable with public speaking?

Are you creative?

Do you enjoy working with children or teenagers?

Do you enjoy helping people learn new skills?

Are you outgoing?

If you answered yes to two or more of these questions, you may be a great candidate for a career in education and training. This career cluster encompasses a number of occupations, including:

- Elementary school teacher
- High school teacher
- School administrator
- Corporate trainer
- Child care worker
- College professor
- Physical trainer
- Instructional media designer

Career Pathways in Education and Training

The education and training career has four pathways: support services, teaching/training, child care and teacher aides, and education administration and administrative support.

Support Services

This pathway includes all of the services, other than teaching, that are essential for students to succeed, including the occupations of psychologist, social worker, parent educator, counselor, speech-language pathologist, and audiologist.

Teaching/Training

This pathway includes all the jobs teaching or training students in settings from preschool to business conference rooms. Jobs include teachers (of all types and at all education levels), teacher aides, human resources trainers, physical trainers, and coaches.

Child Care and Teacher Aides

This pathway includes the people who care for young children in day care centers and classrooms, including child care directors, child care workers, child life specialists, nannies, and early childhood teachers.

Education Administration and Administrative Support

Workers in this pathway keep schools functioning by performing a wide range of administrative duties. Jobs include superintendent, principal, and school administrator; instructional coordinator, education researcher, college president, curriculum developer, and instructional media designer.

Employment Outlook

A growing emphasis on improving education and making it available to more Americans will increase the overall demand for workers in the Education and Training Cluster. Employers are expected to devote greater resources to job-specific training programs in response to the increasing complexity of many jobs, the aging of the workforce, and technological advances that can leave employees with obsolete skills. This will result in a particularly strong demand for training and development specialists across all industries.



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Counseling

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Explore the Finance Career Pathway

Do you enjoy working with numbers?

Are you good at math?

Are you interested in the stock market?

Do you want to help people secure their financial futures?

Do you enjoy working in a fast-paced environment?

Do you feel confident handling other people's money?

If you answered yes to two or more of these questions, perhaps you should consider a career in the finance career cluster. You might enjoy a career as a:

- Credit analyst
- Financial examiner
- Loan officer
- Stockbroker
- Tax preparer
- Actuary
- Insurance agent
- Financial advisor

Career Pathways in Finance

The finance career has four pathways: banking and related services, insurance services, business financial management, and financial and investment planning.

Banking and Related Services

This pathway includes all the occupations required to make banking institutions run. Jobs include loan officer, teller, compliance officer, credit analyst, new accounts clerk, internal auditor, bill collector, mortgage underwriter, customer service representative, and commercial workout specialist.

Insurance Services

Workers in this pathway provide services to policyholders and insurance companies. Jobs include actuary, insurance underwriter, insurance appraiser, claims agent, claims adjuster, insurance agent, and claims investigator.

Business Financial Management

This pathway is involved in directing companies' investment policies and preparing financial documents for regulatory authorities. Jobs include tax examiner, financial analyst, treasurer, tax preparer, controller, economist, and auditor.

Financial and Investment Planning

Jobs in this pathway involve managing other people's money and helping other people reach their financial goals. Occupations in this pathway include stockbroker, investment advisor, development officer, real estate asset manager, securities underwriter, and securities sales agent.

Employment Outlook

The finance industry is a critical sector of the United States economy with over six million people employed in finance-related occupations. Although some of the finance occupations project only moderate growth through the year 2012, the advances in technology and trends toward direct marketing provide exciting and challenging opportunities for careers across all areas of the cluster. In the next few years, many new jobs will be added and many openings will result from the need to replace experienced workers who leave jobs.



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Explore the Government and Public Administration Career Pathway

Do you value public service?

Are you interested in government and politics?

Would you enjoy working at the post office or helping people plan new communities?

Would you like to work overseas?

Would you be interested in joining the military?

If you answered yes to two or more of these questions, perhaps you would be a good candidate for a career in government and public administration. You might enjoy a career as a(n):

- IRS agent
- Foreign service officer
- Regional planner
- Bank examiner
- Cryptologist
- Intelligence agent
- Soldier or sailor
- Legislator

Career Pathways in Government and Public Administration

The government and public administration career has six pathways: planning, revenue and taxation, governance, regulation, national security, and Foreign Service.

Planning

This pathway involves drawing up guidelines for how land in a particular area should be used. Jobs in planning include urban planner, zoning board member, federal aid coordinator, county services director, and census clerk.

Revenue and Taxation

This pathway covers the workers who collect revenue for federal, state, and local governments, including tax examiners, IRS agents, auditors, and assessors.

Governance

This pathway encompasses all the workers involved in the process of governing, either at the local, state, or federal level, including legislators, legislative aides, city managers, policy analysts, and policy researchers.

Regulation

This pathway involves enforcing compliance with the laws and rules made by the government. Occupations include bank examiner, labor law investigator, election supervisor, health inspector, customs agent, child support officer, and border inspector.

National Security

The national security pathway includes more than 2 million workers involved in protecting the

security of the United States, including air defense officers, counterintelligence agents, CIA agents, soldiers, sailors, and airmen; cryptologists, and special forces agents.

Foreign Service

The Foreign Service is a corps of professionals who represent the United States abroad. Jobs include consul, attaché, ambassador, and Foreign Service officer.

Employment Outlook

Because of its public nature, the factors that influence federal government staffing levels are unique. The Congress and President determine the government's payroll budget. Each Presidential Administration and Congress have different public policy priorities, which increase levels of federal employment in some programs and decrease federal employment in others.

State and local government employment is projected to increase approximately 10 percent during the next decade. Employment growth will stem from a rising demand for services at the state and local levels. An increasing population, along with state and local assumption of responsibility for some services previously provided by the federal government, is fueling the growth of these services.



City of LaSalle

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City of Peru

Ken Kolowski, Mayor

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City of Oglesby

Jason Curran, Mayor

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Explore the Health Science Career Pathway

Do you enjoy helping people feel better?

Are you interested in medicine or dentistry?

Do you enjoy school, especially science classes?

Would you enjoy teaching people how to live a healthy lifestyle?

Do you pay attention to small details?

Do you have an excellent memory?

Would you like working in a hospital or other medical facility?

If your answer to two or more of these questions was yes, you might enjoy a career in health science. There are a variety of jobs and careers available in health science, including:

- Audiologist
- Optometrist
- Chiropractor
- Pharmacist
- Sonographer
- Medical records administrator
- Biostatistician
- Industrial hygienist
- EMT/paramedic
- Health educator

Career Pathways in Health Science

The health science career has five pathways: supportive services, information and communication services, diagnostic services, therapeutic services, and biotechnology and pharmaceutical services.

Supportive Services

Workers in this pathway are responsible for administration, building and equipment maintenance, and environmental quality monitoring—all services that are vital to the provision of health care. Jobs include biomedical equipment technician, supply technician, industrial hygienist, maintenance worker, housekeeper, and environmental health specialist.

Information and Communication Services

Workers in this pathway are responsible for managing and organizing health information, and for making that information available to the appropriate people. Jobs include admitting clerk, medical records administrator, hospital administrator, medical transcriptionist, medical coder, medical biller, and health educator.

Diagnostic Services

Jobs in this pathway focus on the diagnosis of illness and disease. Occupations include radiographer, cytotechnologist, histotechnologist, sonographer, blood bank technologist, medical

t Therapeutic Services

Workers in this pathway provide treatment and therapy for diseases and disorders. Jobs include EMT/paramedic, physician, physician assistant, nurse, dentist, pharmacist, physical therapist, chiropractor, optometrist, audiologist, respiratory therapist, and speech pathologist.

Biotechnology and Pharmaceutical Services

Jobs in this pathway focus on research and development of pharmaceuticals and biotechnology. Occupations in this pathway include pharmaceutical technician, cytobiologist, biostatistician, microbiologist, and research lab technician, phlebotomist, and dosimeters.

Employment Outlook

Health care is the largest and fastest-growing industry in the United States. The health care industry employs over 10 million workers in more than 200 careers. The current and projected health care workforce shortage is creating a health care crisis across the nation. Health care employment growth between 2004-2014 is projected to be 19 percent. The 2006-07 edition of the Occupational Outlook Handbook predicts three of the top four fastest-growing occupations will be in the Health Science industry. Home health aides are predicted to grow by 56 percent, medical assistants will grow by 52 percent, and physician assistants will grow by 49 percent. The explosion of technology in health care and an unprecedented aging population contribute to the national health care workforce shortage.



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Explore the Hospitality and Tourism Career Pathway

Do you enjoy travel?

Do you enjoy dining in restaurants?

Do you like to cook?

Do you want to help other people enjoy themselves?

Are you friendly and outgoing?

Would you like to work in a hotel, on a cruise ship, or in a restaurant?

Are you a great athlete?

If you answered yes to two or more of these questions, you might be cut out for a career in hospitality and tourism. You might enjoy a career as a:

- Travel agent
- Hotel manager
- Concierge
- Waiter or waitress
- Bartender
- Chef
- Athlete
- Lifeguard
- Recreation director
- Convention manager

Career Pathways in Hospitality and Tourism

The hospitality and tourism career has four pathways: lodging and housekeeping services, food production and services; recreation, gaming and sports; and travel and tourism services.

Lodging and Housekeeping Services

This pathway includes all the jobs required for hotels, motels, inns, and resorts to function and serve guests. Jobs include lodging manager, janitorial worker, front desk attendant, bellhop, concierge, and housekeeper.

Food Production and Services

This is the largest pathway in this cluster, and includes all the jobs in restaurants, catering services, and anywhere else where food is served. Jobs include waiter, waitress, wine steward, bus person, chef and cook, bartender, food safety inspector, dietician and nutritionist, food technologist, institutional food service worker, and restaurant and facilities manager.

Recreation, Gaming, and Sports

This career pathway includes jobs in amusement parks, sports stadiums, and recreation centers. Jobs in this pathway are quite varied, from professional athletes and umpires to amusement park workers, from lifeguards to blackjack dealers.

Travel and Tourism Services

This pathway comprises all the jobs involved in planning and booking travel reservations,

leading tours, and planning special events. Jobs include travel agent, travel promotion worker, tour director, and convention management.

Employment Outlook

Travel and tourism is one of the largest and fastest-growing industries in the world. Each year, travel and tourism employers around the world pay more than \$1.6 trillion in wages and salaries and create 12.5 million new jobs. Beginning salaries depend on the employee's skills, education and job level at a hotel, restaurant, tourism office, recreation facility, amusement park or attraction site. Salaries range from entry-level wages to six figures. This industry is known for promoting within and for its large number of young managers.



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*Check website for current career opportunities

Travel Agency

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Explore the Human Services Career Pathway

Do you enjoy helping other people?
Are you sympathetic to people in unfortunate situations?
Do you like to help people feel better and look better?
Would you enjoy teaching people to improve their lives?
Do you believe it is important for consumers to be protected from fraud?
Do you enjoy shopping and organizing parties?

If you answered yes to two or more of the above questions, you might enjoy a career in the human services career cluster. You might succeed in one of these careers:

- Wedding consultant
- Massage therapist
- Consumer advocate
- Social worker
- Food pantry organizer
- Preschool teacher
- Child development specialist
- Counselor
- Home care aide
- Occupational Therapist

Career Pathways in Human Services

The human services career has five pathways: early childhood development and services, counseling and mental health services, family and community services, personal care services, and consumer services.

Early Childhood Development and Services

This pathway involves caring for the psychological, physical, and intellectual growth of children, from infancy through adolescence. Jobs include child development specialist, child care worker, parent educator, day care center director, and preschool teacher.

Counseling and Mental Health Services

The goal of workers in this pathway is to help people who suffer from emotional or mental problems. Jobs include substance abuse counselor, psychologist, school social worker, mental health aide, sociologist, and public health social worker.

Family and Community Services

Workers in this pathway provide a variety of services that help strengthen family and community life. Jobs include adult day care worker, community service worker, food pantry organizer, social worker, volunteer coordinator, and religious counselor.

Personal Care Services

Workers in this pathway help people feel and look better, and offer services that make people's

lives more convenient. Occupations include wedding consultant, personal shopper, party planner, massage therapist, makeup artist, image consultant, cosmetologist, and beautician.

Consumer Services

These services assist the buying public by ensuring that they receive fair treatment in the marketplace. Jobs include product safety tester, consumer outreach coordinator, consumer fraud investigator, consumer advisor, and consumer credit counselor.

Employment Outlook

Based on the latest statistics, more than 7.2 million people are employed in human services occupations. Faster than average employment growth through the year 2012, coupled with high turnover, should create numerous employment opportunities.



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Explore the Information Technology Career Pathway

Do you enjoy working with computers?

Are you fascinated by technology?

Are you a logical and mathematical learner?

Are you the person people rely on to set up or use computer hardware and software?

Have you ever created your own computer program or video game?

Are you organized and detail-oriented?

Do you learn new computer programs easily?

Do you adapt well to change?

If you answered yes to two or more of these questions, you might enjoy a career in information technology. This is a fast-paced and quickly changing industry that includes the following careers:

- Network administrator
- Webmaster
- Data analyst
- Technical writer
- Help desk technician
- Software engineer
- Programmer
- Digital media specialist
- Network technician

Career Pathways in Information Technology

The information technology career has four pathways: information support and services, programming and software development, network systems, and interactive media.

Information Support and Services

This is the largest pathway in IT, and it involves analyzing users' requirements in detail, selecting the best possible solution, writing specifications, and obtaining the necessary hardware. Jobs include data systems designer, help desk technician, application integrator, technical writer, database specialist, data analyst, and maintenance technician.

Programming and Software Development

People in this pathway design, develop, and produce computer software. They have occupations such as systems analyst, programmer, business analyst, operating systems designer, software architect, software engineer, and applications analyst.

Network Systems

This pathway includes the workers who establish and maintain links between computers, either within a single office, or across the World Wide Web. Jobs include WAN/LAN technician, communications analyst, systems engineer, network support specialist, network engineer, network administrator, and PC support specialist.

Interactive Media

Workers in this pathway create computer applications and content based on interactive media

technology. Jobs include Webmaster, Web designer, digital media specialist, and multimedia author.



Information Technology

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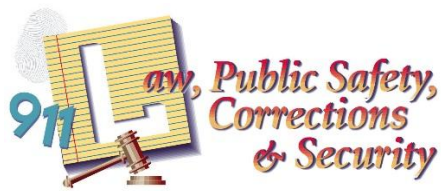
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CL Enterprises

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Explore the Law and Public Safety Career Pathway

Do you want to be a firefighter or police officer?

Do you respect the law and the rule of law?

Do you like to help people?

Do you think it would be exciting to work in a courtroom?

Are you good at debating and winning arguments?

Do you enjoy school?

Are you detail-oriented and driven?

Would you enjoy being responsible for other people's safety?

If you answered yes to two or more of these questions, you might want to consider a career in law and public safety. This career cluster includes a number of professions that are vital to the success of our society and our way of life, including:

- Firefighter
- Police officer
- Corrections officer
- Lawyer
- Judge
- Paralegal
- Bailiff
- Security guard

Career Pathways in Law and Public Safety

The law and public safety career has three pathways: law and legal public services, criminal justice and corrections, and fire protection.

Law and Legal Public Services

Occupations in this pathway involve ensuring the proper function of our nation's legal system. Jobs include legislator, judge, magistrate, lawyer, legal assistant and paralegal, and inspector or compliance officer.

Criminal Justice and Corrections

This pathway includes a variety of occupations involved in protecting the public, keeping the peace, and controlling inmate populations. Jobs include security guard, forensic expert, police chief, police officer, detective, corrections officer, bailiff, and U.S. Marshal.

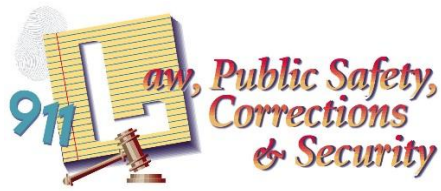
Fire Protection

All occupations in this pathway involve working in potentially risky situations, fighting fires and protecting the public against fires and other dangers. Jobs include dispatcher, firefighter, and fire inspector

Employment Outlook

Renewed national interest in public safety and security should help expand opportunities for employment in the Law, Public Safety, Corrections and Security Cluster. Numerous job

openings will stem from employment growth attributable to the desire for increased corporate, industrial and homeland security. Also, a more security-conscious society and concern about drug-related crimes should contribute to the increasing demand.



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Explore the Manufacturing Career Pathways

Do you enjoy creating or designing things?

Are you good at visualizing concepts and ideas?

Would you like to work in a factory?

Do you have good manual dexterity?

Do you enjoy learning about and using new technology?

If you answered yes to two or more of these questions, perhaps you would be a good candidate for a job in the manufacturing career cluster. Imagine yourself in one of these jobs:

- Factory production worker
- Millwright
- Instrument control technician
- Electrical equipment installer
- Business machine repairer
- Quality control technician
- Instrument maker
- Sheet metal worker

Career Pathways in Manufacturing

The manufacturing career has four pathways: precision metal production, precision technology processes, electromechanical installation and maintenance; and production, design, operations, and maintenance.

Precision Metal Production

This field includes a variety of metalworking jobs such as foundry workers, sheet metal workers, tool and die makers, and machine operators.

Precision Technology Processes

In this pathway, computers and computer-aided systems are used to design, create, and assemble detailed, high-quality products. Jobs include optical goods workers, medical appliance workers, quality control technicians, pattern and model makers, and instrument makers.

Electromechanical Installation and Maintenance

This field includes all jobs involved with installing, maintaining, and repairing devices that use electricity, from cellular phones to nuclear power generators. Jobs include biomedical equipment technician, laser systems technician, computer maintenance technician, computer installer, business machine repairer, industrial electronic installer, meter installer or repairer, utility manager, power generating and reactor plant operators, and instrument control technicians.

Production Design, Operations, and Maintenance

This pathway includes all of the tasks required to set up and run a manufacturing plant, from industrial and manufacturing engineers, to process control technicians, from automated manufacturing technicians to plastics production workers, and from boilermakers to clothing production workers.

Employment Outlook

Despite improvements in production technology and rising imports, manufacturing employment is expected to increase slightly as strong demand continues for high-tech electrical goods and pharmaceuticals.



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Explore the Retail/Wholesale Sales and Service Career Pathway

Do you love shopping?

Is the mall your favorite place to hang out?

Can you see yourself as a salesperson?

Would you like to run your own business?

Would you enjoy creating advertisements or public relations campaigns?

Are you detail oriented?

Are you friendly and outgoing?

If you answered yes to at least two of these questions, you might enjoy a career in the retail/wholesale sales and service career cluster. In this career cluster, you could have one of these jobs:

- Distribution manager
- Real Estate Agent
- Marketing manager
- Public relations specialist
- Retail buyer
- Food products salesperson
- Small business entrepreneur
- Sales supervisor

Career Pathways in Retail/Wholesale Sales and Service

The retail/wholesale sales and service career has four pathways: merchandising and sales, promotion and public relations, general distribution, and management/entrepreneurship.

Merchandising and Sales

This pathway includes career related to promoting, buying, and selling goods to the public and to businesses. Jobs include wholesale and retail buyer, international salesperson, retail salesperson, cashier, adjustment clerk, and real estate sales agent.

Promotion and Public Relations

Workers in this pathway are responsible for ensuring that customers buy retail goods. Jobs in this pathway include advertising manager, advertising clerk, public relations specialist, marketing researcher, and international marketing manager.

General Distribution

This pathway covers all the jobs necessary to get goods to the right people at the right time, including distribution managers, route salespersons, scheduling and recording workers; traffic, shipping, and receiving clerks; warehouse managers, and material moving packers.

Management/Entrepreneurship

This career pathway is made up of all managerial occupations in this career cluster, including small business entrepreneurs, managers, sales supervisors, merchandising managers, and e-commerce managers.

Employment Outlook

According to the latest statistics, there are 16 million jobs in sales and related occupations. Advertising, marketing, promotions, public relations and sales managers hold more than 700,000 jobs. Over 300,000 high-paying management positions are likely to be available over the next decade. Employment opportunities for retail salespeople are expected to be good. Individuals with a college degree or computer skills will be sought for managerial positions in sales, logistics, management information systems, marketing and e-marketing.



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Explore the Scientific Research and Engineering Career Pathway

Do you enjoy science?

Are you good at math?

Do you enjoy building and fixing things?

Do you want to find answers to questions?

Would you enjoy working in a laboratory?

Are you detail-oriented?

If you answered yes to two or more of these questions, you might be a good candidate for a career in scientific research and engineering. One of the following jobs might be a great fit for you:

- Physicist
- Biologist
- Mechanical engineer
- Statistician
- Electrical engineer
- Hazardous materials technician
- Nuclear technician
- Astronomer

Career Pathways in Scientific Research and Engineering

The scientific research and engineering career cluster has two pathways: engineering and technology, and science and math.

Engineering and Technology

This pathway includes all the many different kinds of engineers who work in both government and the private sector. Jobs include systems engineer, safety engineer, chemical engineer, transportation engineer, optical engineer, nuclear engineer, mechanical engineer, industrial engineer, electrical engineer, civil engineer, biotechnology engineer, and agricultural engineer.

Science and Math

This pathway includes a variety of occupations, from research scientists and mathematicians, to technicians, such as hazardous materials technicians or nuclear technicians. This pathway also includes scientific specialists, such as herpetologists, physicists, botanists, biologists, toxicologists, paleontologists, ornithologists, chemists, linguists, geologists, astronomers, and archaeologists.

Employment Outlook

Given the critical nature of much of the work in science, technology, engineering and mathematics, job possibilities abound even in times of economic downturn. More scientists, technologists and engineers will be needed to meet environmental regulations and to develop methods of cleaning up existing hazards. A shift in emphasis toward preventing problems rather

than controlling those that already exist, as well as increasing public health concerns, also will spur demand for these positions.



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Explore the Transportation, Distribution, and Logistics Career Pathway

Would you like to fly planes, drive trucks, or pilot ships?

Are you organized and efficient?

Do you have good eyesight and quick reflexes?

Are you good at solving problems?

Are you good at understanding mechanics?

Would you enjoy planning roads or power systems?

Would you like working on a train or in a shipyard?

If you answered yes to two or more of these questions, you might enjoy a career in transportation, distribution, and logistics. You might succeed in one of these careers:

- Aircraft mechanic
- Airline pilot
- Bus driver
- Locomotive engineer
- Dredge operator
- Truck driver
- Freight agent
- Shipping clerk
- Civil engineer
- Transportation inspector

Career Pathways in Transportation, Distribution, and Logistics

The transportation, distribution, and logistics career has seven pathways: transportation operations, logistics planning and management services, warehousing and distribution center operations, sales and service, facility and mobile equipment maintenance; risk management and health and safety management; and transportation systems/infrastructure planning, management, and regulations.

Transportation Operations

Jobs in this pathway involve the operation and support of mobile equipment in the movement of goods and people. Jobs include airline pilot, flight attendant, truck driver, taxi driver, dispatcher, ship captain, rail yard operations, locomotive engineer, airport support, and harbor support.

Logistics Planning and Management Services

Jobs in this pathway involve planning, managing, and controlling the physical distribution of people and freight from the point of origin to the point of consumption. Jobs include logistics manager, logistics engineer, and logistics analyst.

Warehousing and Distribution Center Operations

This pathway covers the jobs involved in packaging, loading, and tracking goods for transportation, including warehouse manager, industrial and packaging engineer; traffic, shipping, and receiving clerk; and material handling worker.

Sales and Service

These jobs involve marketing and selling transportation services for people or freight. Jobs include marketing and sales manager, reservation and travel clerk, customer service representative, customer billing clerk, and cashier.

Facility and Mobile Equipment Maintenance

This pathway comprises jobs maintaining, repairing, and servicing all types of vehicles, including trucks, airplanes, cars, and other transportation equipment. Occupations include facility maintenance manager, industrial equipment mechanic, industrial electrician; and automotive, truck, aircraft, locomotive, or ship mechanic.

Risk Management and Health and Safety Management

Workers in this pathway assess and manage safety risks and possible environmental hazards. Jobs include health and safety engineer, environmental manager, safety analyst, and emergency services worker.

Transportation Systems/Infrastructure Planning, Management, and Regulations

This pathway focuses on the planning and management of the public transportation infrastructure. Jobs include urban or regional planner, government regulator, and other jobs in federal, state, and local transportation agencies.

Employment Outlook

Transportation, distribution and logistics is a critical sector of the United States economy. Almost 10 million people are employed in transportation or transportation-related occupations. High-growth industry and career specialties offer high-tech, high-wage opportunities. This industry sector represents over 11 percent of the gross domestic product, and is among the fastest growing of all sectors. The Bureau of Labor Statistics projects an increase in employment in this sector through 2012. There will be a growing number of career opportunities in a variety of professional and technical occupations as well as high-paid, entry-level occupations that can provide career advancement opportunities



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Health Careers

Diagnostic Imaging

Dietician

Joint Replacement

Laboratory

Nursing

Occupational Health

Pharmacy

Pulmonary Rehab

Respiratory Therapy

Wound care