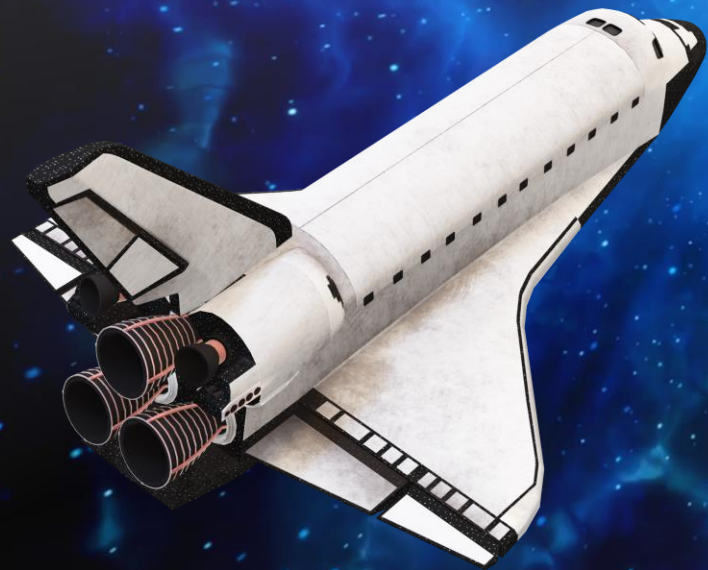
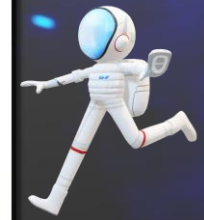


Career Development and Exploration WE HAVE LIFT OFF!!!!



EXPLORING CAREERS
AND HOW TO GET
THE JOB YOU WANT

Careers, Jobs, and Occupations.



A Career spans your life time & includes education, training, professional memberships, volunteering, and your full history of paid work.



A Job is what you show up to for work and pay. These jobs could be temporary, part-time, seasonal, or full time.



Your Occupation describes a type of work with associated tasks, education and training; typical wages, work settings, etc. For example: Registered Nurse, Mechanic, or Event Planner. Once you choose an occupation, you can then apply for different jobs within that occupation to create a career pathway.



Career Pathways



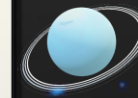
Manufacturing



Healthcare



Logistics



Arts/Communications



Business/Finance



Information Technology



Science/Engineering



**Architecture/
Construction**



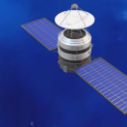
Human Services



Law/Government



Education



Trades

Manufacturing

PA Careerzone

Manufacturing is the processing of raw materials or parts into finished goods through the use of tools, human labor, machinery, and chemical processing.

Large-scale manufacturing allows for the mass production of goods using assembly line processes and advanced technologies as core assets.

MANUFACTURING ★ in America ★ ECONOMIC AND INNOVATION SUCCESS



THE DISCONNECT BETWEEN PERCEPTION & FACTS



MANUFACTURING REALITY...

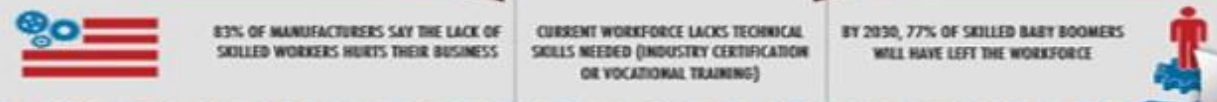


MANUFACTURING DEPENDS ON A SKILLED WORKFORCE. BUT COMPANIES HAVE JOBS THEY CAN'T FILL. THIS HAS CAUSED A SKILLS GAP.

SKILLED WORKERS NEEDED!




WHY IS THERE A PROBLEM?





ECONOMIC GROWTH DEPENDS ON MANUFACTURING GROWTH. THE FUTURE OF U.S. MANUFACTURING RELIES ON A SKILLED, TALENTED WORKFORCE.

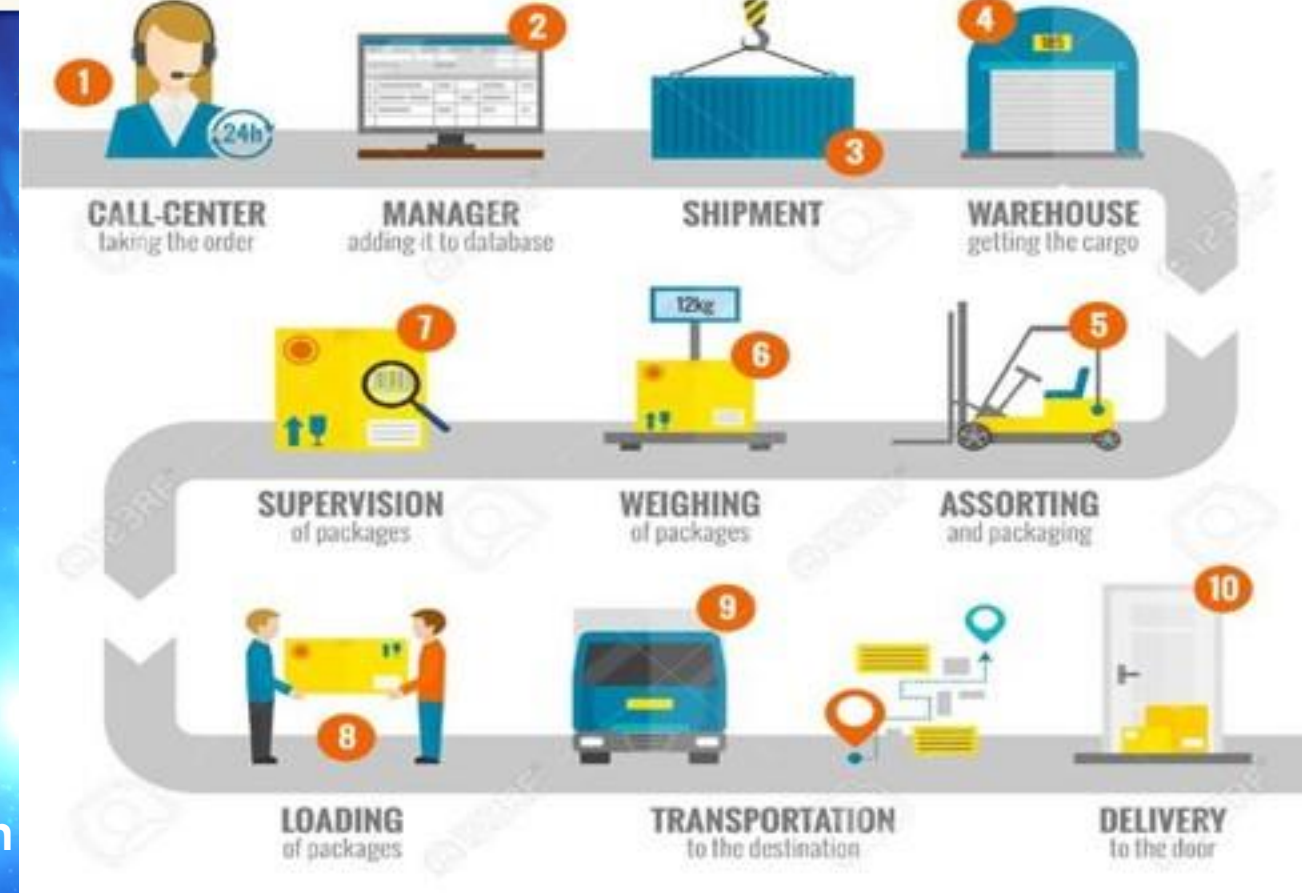
Logistics

PA Careerzone

 Logistics is the process of planning and executing the efficient transportation and storage of goods from the point of origin to the point of consumption. The goal of logistics is to meet customer requirements in a timely, cost-effective manner.

 Transportation management focuses on planning, optimizing and executing the use of vehicles to move goods between warehouses, retail locations and customers. The transportation is multimodal and can include ocean, air, rail and roads. Warehousing, or warehouse management, includes such functions as inventory management and order fulfillment.

 Suppliers, manufacturers, distributors and retailers have had to improve their logistics processes to meet the demand for quicker, more convenient delivery of a wider variety of goods.



ARTS-Audio/Video-Communications

PA Careerzone



Careers in this pathway are related to humanities and performing, visual, literary, and media arts. These include architectural design, graphics, interior and fashion design, writing, film, fine arts, journalism, languages, media, advertising, and public relations.



Creative students who see themselves designing, producing, exhibiting, performing, writing or publishing multimedia content will want to pursue courses in the Arts, A/V Technology and Communications Career Cluster.



You will apply artistic talent to practical problems and learn visual arts principles that prepare you with skills and techniques to work in any number of creative design and entertainment fields.

The University Network

WHAT CAN YOU DO WITH A COMMUNICATIONS DEGREE ?

A degree in communications is the perfect degree for an extroverted, conversational person who doesn't want to be limited to a specific field of work. Communications majors can be found everywhere, from sales teams to human resource departments.

MOST COMMON JOBS

Ideal Candidate

HUMAN RESOURCES Impartial, empathetic and not afraid of confrontation Median Annual Wage: \$60,570	COMMUNICATIONS DIRECTOR Good people skills and public speaking skills Median Annual Wage: \$85,709	ELEMENTARY/MIDDLE SCHOOL TEACHER • Internship in a school classroom • State-required Test • Teaching Certificate Median Annual Wage: \$57,350
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SPECIALIZED/UNIQUE JOBS

MARKETING & SALES MANAGER • Oversee a team of employees • Develop goals and marketing plans • Gauge customers Median Annual Wage: \$125,290	PUBLIC RELATIONS SPECIALIST • Shape the public opinion of a company • Write press releases • Communicate with reporters Median Annual Wage: \$59,300	EVENT PLANNER • Plan & budget for major events • Work seamlessly with caterers, bartenders, waiters, & others Median Annual Wage: \$48,290
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NON-TRADITIONAL JOBS

SOCIAL MEDIA MANAGER Median Annual Wage: \$55,199	RADIO & TV BROADCASTER Median Annual Wage: \$62,910	REPORTER Median Annual Wage: \$40,910
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The University Network

WHAT CAN YOU DO WITH AN ART DEGREE ?

An art degree may not lead to a traditional career path, but it can teach you valuable skills that translate across a number of industries. Of course, an art degree is a natural point of entry to a career as an artist, but it can also help lead to other careers within the art world (curator or gallery director, for example), or artistic careers in various other fields (graphic design or animation).

MOST COMMON JOBS

ARTIST • Median annual wage: \$49,520 • Common entry-level degree: None required • Likelihood that robots will take your job: 4%	ART PROFESSOR • Median annual wage: \$66,930 • Common entry-level degree: Master's/Doctorate degree • Likelihood that robots will take your job: 3%
GRAPHIC DESIGNER • Median annual wage: \$48,700 • Common entry-level degree: Bachelor's degree • Likelihood that robots will take your job: 8%	CURATOR • Median annual wage: \$53,700 • Common entry-level degree: Master's/Doctorate degree • Likelihood that robots will take your job: 0.7%
ART DIRECTOR • Median annual wage: \$92,500 • Common entry-level degree: Bachelor's degree • Likelihood that robots will take your job: 2%	GALLERY DIRECTOR • Median annual wage: \$45,635 • Common entry-level degree: Bachelor's degree • Likelihood that robots will take your job: N/A

NON-TRADITIONAL JOBS

See article for job descriptions

ART CONSERVATOR	HIGH SCHOOL ART TEACHER
ART THERAPIST	MULTIMEDIA ARTIST OR ANIMATOR
FINE ART AGENT	EDITOR

Business/Finance

PA Careerzone



Business is the activity of making one's living or making money by producing or buying and selling products (such as goods and services). Simply put, it is "any activity or enterprise entered into for profit. It does not mean it is a company, a corporation, partnership, or have any such formal organization, but it can range from someone selling goods on the street to General Motors.



Finance is a term for matters regarding the management, creation, and study of money and investments. Finance can be broadly divided into three categories, public finance, corporate finance, and personal finance.

WHAT CAN YOU DO WITH A BUSINESS DEGREE?

A degree in business opens up many different employment opportunities. However, because the subject is so broad, some of the jobs may require further education or an internship experience.

MOST COMMON JOBS

Requirements

ACCOUNTANT <ul style="list-style-type: none"> Bachelor's Degree Certified Public Accountant License Median Annual Wage: \$69,350	FINANCIAL MANAGER <ul style="list-style-type: none"> Master's Degree Work Experience Median Annual Wage: \$125,080	BUSINESS OPERATIONS SPECIALIST <ul style="list-style-type: none"> Bachelor's/Master's Degree Aptitude for management Median Annual Wage: \$66,390
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SPECIALIZED/UNIQUE JOBS

Description

FINANCIAL ADVISOR <ul style="list-style-type: none"> Develop plans and money management tactics to help people make smart money decisions Work for big companies or contract private services Median Annual Wage: \$82,770-\$90,640	BUSINESS REPORTER <ul style="list-style-type: none"> Master storytellers with strong writing and grammar skills Median Annual Wage: \$40,910	BUSINESS PROFESSOR <ul style="list-style-type: none"> Patience, communication, organization and enthusiasm needed Teach, conduct research, and/or write scholarly articles Median Annual Wage: \$64,480
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NON-TRADITIONAL JOBS

STATISTICIAN Median Annual Wage: \$84,060	MATH TEACHER Median Annual Wage: \$57,350	ACTUARY Median Annual Wage: \$101,560
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WHAT CAN YOU DO WITH A FINANCE DEGREE?

Finance majors are in high demand, as nearly every institution needs someone to help analyze financial data and make financial decisions.

MOST COMMON JOBS

Requirements

ACCOUNTANT <ul style="list-style-type: none"> Keep track of, analyze and archive an organization's financial information Need: Bachelor's degree & CPA license Median Annual Wage: \$69,350	FINANCIAL MANAGER <ul style="list-style-type: none"> Plan for future financial endeavors within a company Need: Master's degree Median Annual Wage: \$125,080	ACTUARY <ul style="list-style-type: none"> Assess and manage risk of future investments and spendings Need: Bachelor's degree & actuary certification Median Annual Wage: \$101,560
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SPECIALIZED/UNIQUE JOBS

Requirements

CREDIT ANALYST <ul style="list-style-type: none"> Assess the creditworthiness of an individual who is applying for a loan Need: Bachelor's degree Median Annual Wage: \$71,290	FINANCIAL ANALYST <ul style="list-style-type: none"> Conduct broad research on industries, products, stocks, bonds and more to help companies make investment decisions Need: Master's degree Median Annual Wage: \$55,410	BUDGET ANALYST <ul style="list-style-type: none"> Develop spending plans for various institutions Need: Bachelor's degree Median Annual Wage: \$75,240
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NON-TRADITIONAL JOBS

LAWYER Median Annual Wage: \$119,250	PROFESSOR Median Annual Wage: \$64,480	MATH TEACHER Median Annual Wage: \$57,350
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Information Technology/Computer Science

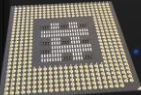
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Information Technology is the use of computers to store, retrieve, transmit, and manipulate data or information. IT is typically used within the context of business operations



Computer science, the study of computers and computing, including their theoretical and algorithmic foundations, hardware and software, and their uses for processing information.



The area of computer science includes the study of algorithms and data structures, computer and network design, modeling data and information processes, and artificial intelligence.

CAREER OUTCOMES



The University Network

WHAT CAN YOU DO WITH A COMPUTER SCIENCE DEGREE?

Computer technologies have come to shape our world and are involved in virtually every sector of contemporary society. As a result, computer science is one of the fastest growing fields and looks to stay that way for the foreseeable future.

MOST COMMON JOBS

Job Title	Median Annual Wage	Common Entry-Level Degree	Likelihood that robots will take your job
APPLICATIONS SOFTWARE DEVELOPER	\$101,790	Bachelor's degree	4%
COMPUTER HARDWARE ENGINEER	\$115,120	Bachelor's degree	22%
WEB DEVELOPER	\$67,990	Bachelor's degree	21%

SPECIALIZED/UNIQUE JOBS

Job Title	Median Annual Wage	Common Entry-Level Degree	Likelihood that robots will take your job
SYSTEMS SOFTWARE DEVELOPER	\$107,600	Bachelor's degree	13%
COMPUTER SYSTEMS ANALYST	\$68,270	Bachelor's degree	1%
NETWORK AND COMPUTER SYSTEMS ADMINISTRATOR	\$81,100	Bachelor's degree	3%

OTHER, NON-TRADITIONAL JOBS

See article for job descriptions

Job Title	Median Annual Wage	Common Entry-Level Degree	Likelihood that robots will take your job
QUANTITATIVE ANALYST			
FORENSIC COMPUTER ANALYST			
MULTIMEDIA ARTIST OR ANIMATOR			
COLLEGE PROFESSOR			
COMPUTER AND INFORMATION RESEARCH SCIENTIST			
DATABASE ADMINISTRATOR			

Engineering

PA Careerzone

Engineering is the use of scientific principles to design and build machines, structures, and other items, including bridges, tunnels, roads, vehicles, and buildings.

The discipline of engineering encompasses a broad range of more specialized fields of engineering, each with a more specific emphasis on particular areas of applied mathematics applied science, and types of applications.



Engineering is one of the most popular STEM majors for a reason. Engineering graduates are in high demand, and many are able to find stable and well-paying employment with only a bachelor's degree. Engineers come in all shades -- they develop cars, robots, and air conditioners, design the built the environment, & more!



10 Characteristics of Successful Engineers



1. Team Player

Teamwork drives the successful completion of a project. No one can complete a project on their own. They need others to contribute.



2. Continuous Learning

Technology and methodologies are constantly changing. Staying up to date with the latest developments puts you ahead of the field.



3. Creativity

It may sound cliché, but successful engineers have an innate ability to "think outside the box".



4. Problem Solving

Any project, no matter how big or small, will face problems. An engineer must be able to effectively address these as they arise.



5. Analytical Ability

Engineers are required to think analytically in order to fully define a problem and develop solutions suited to the problem.



6. Communication Skills

For an engineer, communication means the ability to not only understand technical complexities, but the ability to succinctly and effectively translate technical jargon into layman's terms without patronising others.



7. Logical Thinking

An engineer must know how the system works, what can go wrong and how to fix it. This requires an ability to think logically, and evaluate and understand each element that makes up the system.



8. Attention to Detail

Successful engineers pay meticulous attention to the smallest of details.



9. Mathematical Ability

To be a successful engineer you must have outstanding math skills.



10. Leadership

Successful engineers also need well-developed "soft skills" so they can smoothly perform non-technical duties.

Architecture/Construction

PA Careerzone



Architecture is the science and art of designing buildings. People who practice architecture are called architects. Architects express an artistic vision through the size, shape, color, materials, and style of a building's elements.



Construction workers build or fix homes, roads, and buildings. They perform heavy physical labor and often work outdoors in all kinds of weather conditions.



The University Network

WHAT CAN YOU DO WITH AN ARCHITECTURE DEGREE?

MOST COMMON JOBS

- ARCHITECT**
 - Median annual wage: \$72,020
 - Common entry-level degree: Master's degree & state license
 - Likelihood that robots will take your job: 1.8%
- ARCHITECTURE PROFESSOR**
 - Median annual wage: \$80,050
 - Common entry-level degree: Master's degree
 - Likelihood that robots will take your job: 3%
- LANDSCAPE ARCHITECT**
 - Median annual wage: \$65,760
 - Common entry-level degree: Bachelor's degree/Master's degree
 - Likelihood that robots will take your job: 5%

SPECIALIZED/UNIQUE JOBS

- RESIDENTIAL ARCHITECT**
 - Median annual wage: \$76,100
 - Common entry-level degree: Bachelor's degree & license
 - Likelihood that robots will take your job: 1.8%
- ARCHITECTURAL HISTORIAN**
 - Median annual wage: \$50,051
 - Common entry-level degree: Master's degree
 - Likelihood that robots will take your job: N/A
- URBAN PLANNER**
 - Median annual wage: \$71,490
 - Common entry-level degree: Master's degree
 - Likelihood that robots will take your job: 13%

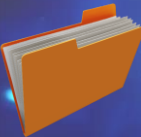
OTHER, NON-TRADITIONAL JOBS

See article for job descriptions

- SURVEYOR
- ARTIST
- NAVAL ARCHITECT
- INTERIOR DESIGNER
- CONSTRUCTION MANAGER
- GRAPHIC DESIGNER

Human Services

PA Careerzone



Human Services is a service that is provided to people in order to help them stabilize their life and find self-sufficiency through guidance, counseling, treatment and the providing for of basic needs. This can take many forms from a Psychologist, to an Eligibility Worker helping a family get government assistance or a Substance Abuse Counselor. There are many ways in which Human Services are provided to the public.



There are many careers that are involved in Human Services and all have in common helping people reach their maximum potential by providing critical services for both the short-term and long term. Through a strength based approach, the Human Services worker helps their clients to achieve self-sufficiency and a higher quality of life.

The University Network

WHAT CAN YOU DO WITH A PSYCHOLOGY DEGREE?

A psychology degree prepares people to work a broad range of jobs, including counseling, teaching, social work and more.

Social Work Assistant	Mental Health Assistant	Counselor
Community and Social Services Specialist	Community Outreach Worker	Medical and Health Services Manager
Nursing Home Administrator	Correctional Treatment Specialist	Social and Community Service Manager

MOST COMMON JOBS

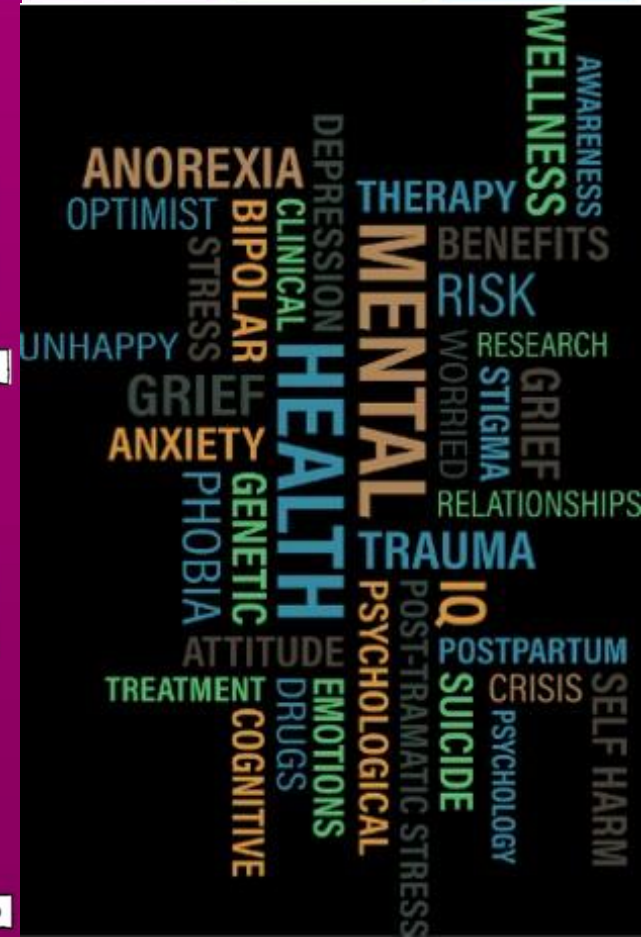
- COUNSELOR**
 - License
 - Master's degree
 - Median Annual Wage: \$46,740
- SOCIAL WORKER**
 - License
 - Master's degree
 - Median Annual Wage: \$47,980
- Elementary/Middle School TEACHER**
 - Internship in a School Classroom
 - State-Required Test
 - Teaching Certificate / License
 - Median Annual Wage: \$57,350

SPECIALIZED/UNIQUE JOBS

- PSYCHOLOGIST**
 - Doctorate Degree
 - License
 - Supervised Internship (some states)
 - Median Annual Wage: \$97,740
- SCHOOL COUNSELOR**
 - License
 - Master's degree
 - Median Annual Wage: \$55,410
- PSYCHIATRIST**
 - License
 - Master's degree
 - Median Annual Wage: N/A

NON-TRADITIONAL JOBS

- HUMAN RESOURCES**
 - Median Annual Wage: \$60,570
- COLLEGE PROFESSOR**
 - Median Annual Wage: \$64,480
- EDUCATION ADMINISTRATOR**
 - Median Annual Wage: \$88,890



Law/Government



PA Careerzone



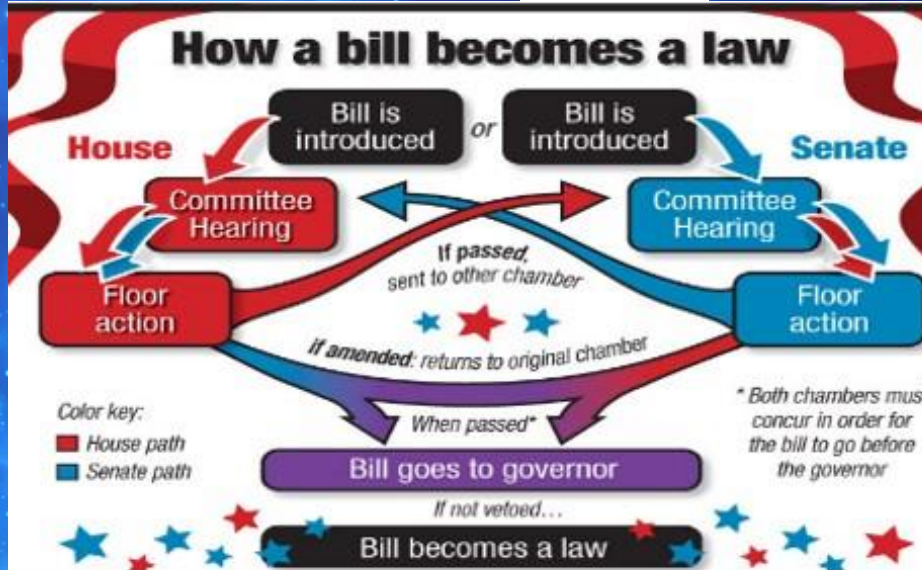
Most law careers involve helping clients deal with legal issues impacting their personal or business interests. Professionals in this field prepare legal documents, create contracts, and defend cases in court.



Government and public administration workers help pass and enforce the law. You could work in national, state, or local government.



Public policy is the study of policy making by governments. A government's public policy is the set of policies (laws, plans, actions, behaviors) that it chooses. Since governments claim authority and responsibility over a large group of individuals, they see fit to establish plans and methods of action that will govern that society.



3 BRANCHES of U.S. GOVERNMENT



WHAT CAN YOU DO with a CRIMINOLOGY DEGREE?

Criminology is the scientific study of crime. While some criminology majors do go on to work in law enforcement, the majority of them are more interested in the social implications of crime – what causes it and how can it be fixed. Fittingly, many criminology majors go on to become lawyers, judges and sociologists, among other occupations.

MOST COMMON JOBS

- CRIMINOLOGY PROFESSOR**
 - Median annual wage: \$70,640
 - Common entry-level degree: Master's degree
 - Likelihood that robots will take your job: 3%
- LAWYER**
 - Median annual wage: \$119,250
 - Common entry-level degree: Juris Doctor degree
 - Likelihood that robots will take your job: 4%
- JUDGE**
 - Median annual wage: \$133,840
 - Common entry-level degree: Juris Doctor Degree
 - Likelihood that robots will take your job: 40%

SPECIALIZED/UNIQUE JOBS

- CRIMINOLOGIST**
 - Median annual wage: \$72,000
 - Common entry-level degree: Bachelor's degree
 - Likelihood that robots will take your job: N/A
- CIA AGENT**
 - Median annual wage: \$74,872-\$136,771
 - Common entry-level degree: Bachelor's degree
 - Likelihood that robots will take your job: N/A
- FBI AGENT**
 - Median annual wage: \$131,612
 - Common entry-level degree: Bachelor's degree
 - Likelihood that robots will take your job: N/A

OTHER, NON-TRADITIONAL JOBS

See article for job descriptions

- LOBBYIST
- FORENSIC SCIENTIST
- IMMIGRATION OFFICER
- DETECTIVE
- PROBATION OFFICER
- SOCIOLOGIST

Trades



A trade job generally refers to any job whose duties require advanced training and skills gained through means other than a bachelor's degree. For example, many jobs in the construction industry, such as plumber or electrician, require you to have significant experience and training before you can work.



Experience and training can be gained through on-the-job experience or formal education in the form of an apprenticeship or completing a vocational school training program. Although many skilled labor jobs require manual work, not all trade jobs require significant physical labor. Examples of these include being a pilot, a real estate broker, or dental technician.

Interplay Learning

THE FUTURE OF SKILLED TRADES

Baby Boomers are retiring in droves and that's a big deal for the Skilled Trades Industry. Here's why...

THE GROWING SKILLS GAP

72% OF ELECTRICAL AND ELECTRONICS REPAIRERS ARE OVER 45 YEARS OLD	58 AVERAGE AGE OF SKILLED TRADES WORKER IN THE US	60% OF THE SKILLED TRADES WORKFORCE WILL RETIRE IN THE NEXT 10 YEARS
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7 CONSECUTIVE YEARS

SKILLED TRADES POSITIONS HAVE BEEN THE HARDEST TO FILL GLOBALLY MEANING THE PROBLEM IS COMPOUNDED MORE EACH DAY.

GROWING DEMAND

74% The percentage of firms that predict a shortfall of qualified skilled trade workers if something doesn't change soon.

HELP WANTED

EARNING POTENTIAL

Average Annual Wages for:

\$52,650 HVAC Technician	\$50,043 Electrician	\$50,700 Plumber
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TRADE SCHOOL VS TRADITIONAL COLLEGE

TRADE SCHOOL	VS	TRADITIONAL COLLEGE
Years to completion: a few months to 2 years		Years to completion: 4+ years
Supply Cost: usually included in tuition		Supply Cost: \$1,200/yr on average
Cost: \$33,000 Program Completion		Cost: \$127,000 Bachelor's Degree
Housing Costs: not usually available/provided		Housing Costs: \$10,800 - \$12,210/yr (on campus)
Rate of placement in field of study: nearly 100%		Rate of placement in field of study: nearly 57%
Average Salary Yearly: \$42,000/yr		Average Salary Yearly: \$45,000/yr
Drop Out Rate: 0.9%		Drop Out Rate: 56%
Job Growth Rate: 20+%		Job Growth Rate: 12.1%

1 \$72,910 Dental Hygienist	2 \$52,720 Electrician
3 \$57,670 Locomotive Engineer	4 \$50,930 Medical/Clinical Laboratory Technologists and Technicians
5 \$51,450 Plumbers, Pipefitters, and Steamfitters	6 \$43,160 Machinists and Tool and Die Makers
7 \$59,400 Stationary Engineers and Boiler Operators	7 \$39,390 Welders, Cutters, Solderers, and Brazers

Where You Live

Employment by Industries

Total: 98.4k



2013 2014 2015 2016 2017 2018

Data from [the Census Bureau ACS 5-year Estimate](#).

Where You Live

The background of the image is a deep blue nebula, a cloud of gas and dust in space. It features a bright, glowing central star that illuminates the surrounding gas, creating a gradient of blue colors from dark indigo to bright cyan. Numerous smaller, distant stars are scattered across the field, appearing as tiny white and blue points of light. The overall effect is a sense of vastness and cosmic wonder.

Where You Live



What To Do Now?



Get to know yourself !



Go to <https://www.pacareerzone.org/ip/> and do the interest profiler and review your results !!



Start researching !!!



Ask questions !!!!



Prepare yourself for your future !!!!!



It is ok if you decide to switch your field !!!!!!



Remember, it's your life, do what will make you happy !!!!!!!

