

Planning for High School and Beyond Through Career Exploration



Sponsored by the Blue Ridge Career Pathways Consortium

Worlds of Work

Worlds of Work represents seventeen Career Clusters. An in-depth look at these clusters is included in this booklet. We hope that you can explore many career opportunities through this experience.

Job Clusters

There are 17 career clusters and every job fits into one of the clusters. All career clusters can lead to an occupation that requires either on the job training, an apprenticeship, a two-year, bachelor's, master's, or doctoral degree. Some companies even pay their workers to attend college for free.



Agriculture, Food & Natural Resources
Architecture & Construction
Arts, A/V Technology & Communications
Business Management & Administration
Education & Training
Energy
Finance
Government & Public Administration
Health Science

Hospitality & Tourism
Human Services
Information Technology
Law, Public Safety, Corrections & Security
Manufacturing
Marketing
Science, Technology, Engineering & Mathematics
Transportation, Distribution & Logistics

A Note to Parents

Dear Parents,

While in the 7th grade, your child will create an academic and career plan that will help establish his/her interests, map out related coursework, and provide direction and relevance as your child moves into high school. This plan will be revisited and adjusted as your child progresses through high school and will help lay the groundwork for continuing education and career readiness.

As a middle school student, your child will explore different career pathways to expose them to the many dynamic and new career opportunities that exist today. All 7th grade students from Augusta, Rockingham, Harrisonburg, Staunton, and Waynesboro will have the exciting opportunity to participate in a *Worlds of Work Career Fair* at the Augusta Expo. This event will feature hands-on career exploration simulations and highly engaging career related activities for students. Many area businesses will be participating in this event to help engage and expose our community's youth to the wide variety and lucrative job opportunities that exist here in the Shenandoah Valley.

Please take some time to speak with your child about his/her experience at the event and to go over the information in this booklet. This booklet will show you the types of careers your child experienced at the Worlds of Work event. It will also be an excellent resource as your child begins to develop his/her career plan. This workbook describes the seventeen career clusters, provides examples of jobs within each pathway, the training and/or education needed to obtain each job, and the associated average earnings. You will see that many highly lucrative jobs require technical rather than traditional four-year degrees. As you know, our world is changing quickly and as a result; businesses are searching for workers who possess both technical and academic skills. Here in the Shenandoah Valley, our schools, businesses, and continuing education institutions are committed to ensuring our students are well prepared to be successful and productive adults. Please reach out to your child's guidance counselor if you have any questions or need any additional information about this event, your child's career plan, or the sixteen career clusters.

Blue Ridge Career Pathway Consortium

Agriculture, Foods, & Natural Resources

Do you enjoy working outdoors?

Are you interested in ways to produce clean energy?

Do you enjoy working with animals?

What It Takes:

Physical fitness

Long and varied work hours

Willingness to work outdoors

Career spotlight

Veterinary Technician

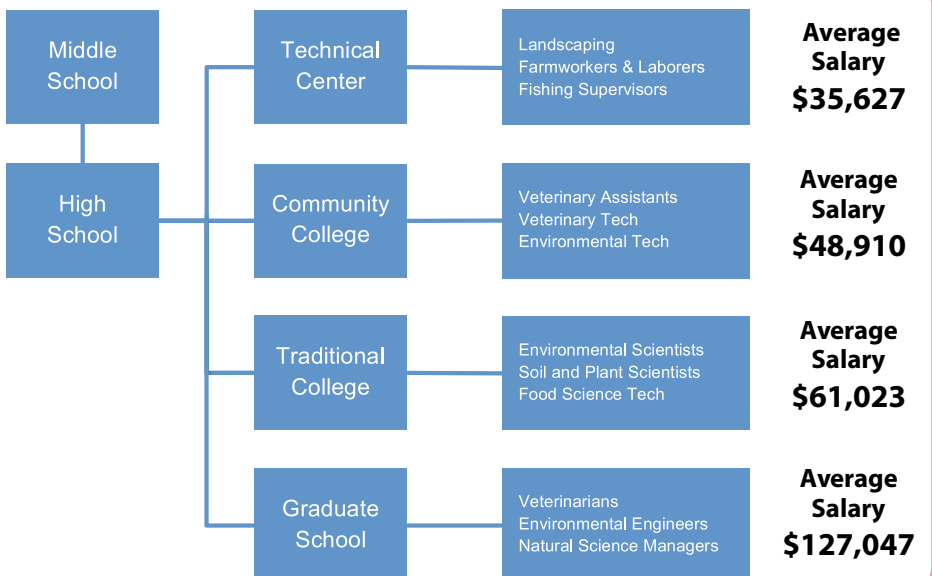
If you choose to become a vet tech, the kinds of duties you perform on a daily basis will depend on the type of facility you work in, but you'll always be assisting vets in caring for animal patients. Your duties will likely encompass a wide array of tasks, from keeping medical records to administering shots and medication. General tasks could include:

- Observing animal patients for changes in behavior
- Preparing animals for exams or surgery
- Giving animals nursing care or first aid
- Collecting and test lab samples
- Taking and developing X-rays
- Giving medications, shots, or treatments
- Collecting and maintaining patient records

The Agriculture, Food and Natural Resources cluster is about the production, processing, marketing, distribution, financing and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources. The increased emphasis on producing clean energy is creating new opportunities for farmers to grow plants and grains that can be used in biofuels. Farm advisors apply research to solve problems and issues related to agriculture and agriculture-related processes. Agriculture and forestry account for more than 414,700 jobs in Virginia. Engineering and technical occupations, including environmental engineers, veterinary technicians, and conservation scientists, are anticipated to see strong job growth.



CAREER PATHWAYS



Architecture & Construction

The Architecture and Construction cluster is about careers in designing, planning, managing, building and maintaining the built environment. Think about your home, school, or local retail center. Careers in this cluster are responsible for the details of designing, constructing, and equipping these buildings. That ranges from the architects designing the look and flow of the building, to the carpenters and masons building its walls, to the electricians and installers of heating and air conditioning. Architects with knowledge of sustainable, or green, design will be especially in demand. The construction industry is projected to account for about 225,000 jobs across Virginia in the next five years.

Do you like building things or drawing?

Do you enjoy working with tools?

Do you enjoy working with your hands?

Do you get good grades in math and science?



What It Takes:

- Strong math, science, and time management skills
- Attention to details
- Following Directions
- Working on a team
- Enjoy working with your hands and tools

Career spotlight

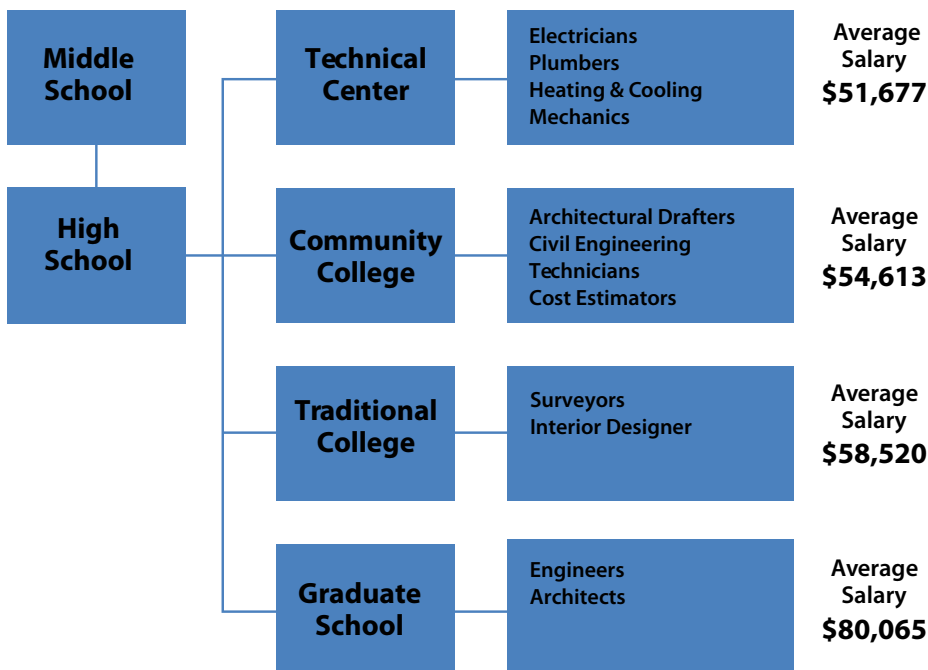
Plumber

Plumbers read blueprints, drawings and specifications to determine the layout of plumbing systems, water supply networks and waste and drainage systems. Plumbers work in cooperation with other trades and laborers to ensure that all specifications, legislation and policies are met, and to ensure efficient completion of any project.

The Plumber will then plan, install, and service plumbing systems, fixtures, piping equipment and controls. These piping systems may be used to transport:

- Water
- Waste
- Gases
- Hot liquids

CAREER PATHWAYS



Arts, AV Technology, & Communications

Do you like to express yourself?

Are you creative?

Do you enjoy writing, performing, drawing, or designing?

Do you enjoy using multimedia technology?

What It Takes:

Strong writing & oral language skills

Creativity & innovation

Understanding of multimedia technology

Artistic talent



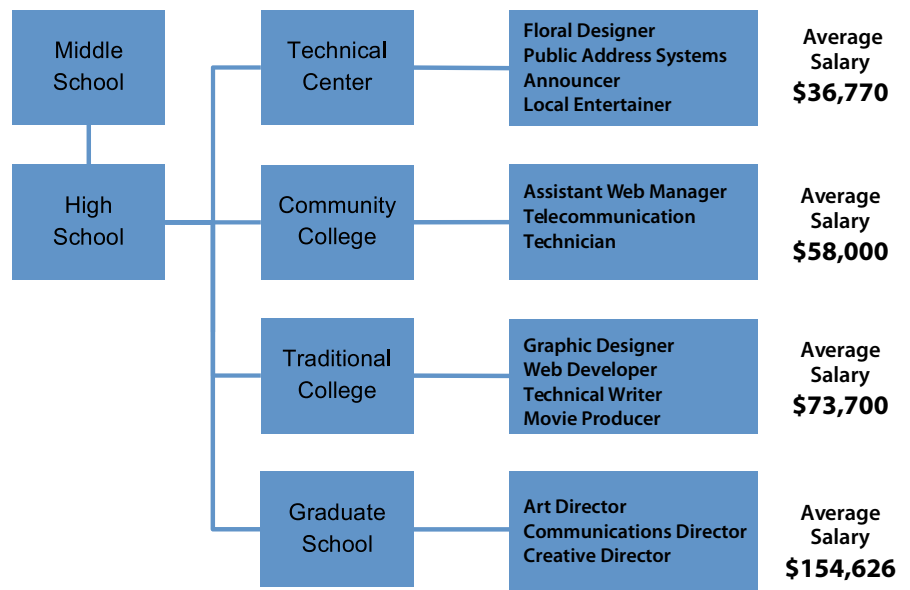
Web Designer

Web design is a relatively new industry, having been created with the advent of the Internet, and is gaining popularity in particular over the last ten years, as digital media has become a major part of many people's lives. Most people rely on the web for their communications, information, shopping, social life and more. The demand for web designers has been growing rapidly and the industry is currently considered a good one with relation to job prospects and future growth.

- Meet with internal stakeholders or external clients to discuss objectives for Internet and intranet sites and other online projects
- Provide expert creative guidance on the overall look, feel and functionality of web design projects
- Create concepts in design programs such as Adobe Photoshop and Illustrator
- Know languages such as HTML and JavaScript
- Create compelling artwork (including images, icons, banners) and layouts that are appealing and user-friendly
- Conduct quality assurance work to identify possible problems before launch

The Arts, A/V Technology and Communications cluster is about flexing your creativity, design, writing, performing, and multimedia skills. Over the next decade, the Arts, Audio/Video Technology, & Communications cluster is expected to experience lower-than-average occupational employment growth (2%) compared to the Commonwealth as a whole (9%). It is important to keep in mind, however, that many individuals with careers in this cluster are self-employed and thus not captured in these statistics. Prepare for careers from graphic design to broadcast journalism through a focus on advanced technologies used in venues including corporate boardrooms, hotels and convention centers, classrooms, and museums. Technical writers, also called technical communicators, are responsible for helping others understand complex technical information or how to use technology products and their employment is expected to increase. Growth and changes in technology and electronics in the home and workplace will increase demand for technical writers. Photographers should see job prospects grow. Self-employed photographers will increase due to demands from individuals wishing to have portraits taken and corporations seeking photographs for marketing materials. Career prospects for producers and directors are expected to increase as a result of new content delivery methods – such as watching TV online or on a mobile device – and the popularity of reality television.

CAREER PATHWAYS



Business Management & Administration

Business Management and Administration careers use your organizational and leadership skills to prepare for careers where you plan, direct and evaluate operations to run a successful business. There are a variety of career opportunities available including hiring staff, analyzing data and launching your own start-up. This career cluster employs the largest number of workers in Virginia.

Do you like being in charge or working as part of a team?

Are you an effective communicator?

Do you enjoy analyzing data and taking calculated risks?

What It Takes:

- Strong leadership & communication skills
- Self-motivation
- Organizational Skills
- Strategic Planning



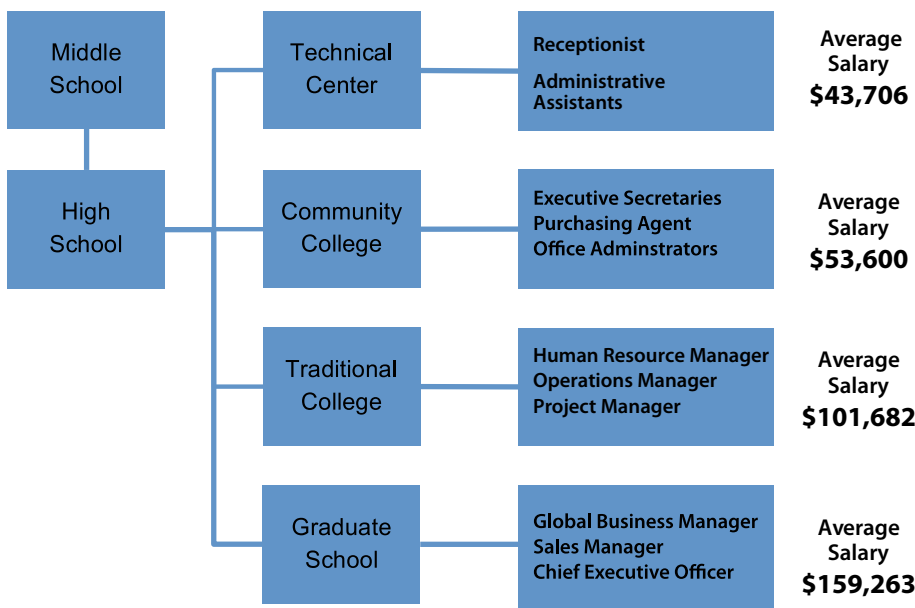
Management Analyst

Management analysts, often called management consultants, propose ways to improve an organization's efficiency. They advise managers on how to make organizations more profitable through reduced costs and increased revenues. Management analysts travel frequently to meet with clients. Employment of management analysts is projected to grow 14 percent from 2014 to 2024, much faster than the average for all occupations. Demand for the services of these workers should grow as organizations continue to seek ways to improve efficiency and control costs.

- Interview personnel and conduct on-site observation to ascertain unit functions, work performed, and methods, equipment, and personnel used
- Plan study of work problems and procedures, such as organizational change, communications, information flow, integrated production methods, inventory control, or cost analysis
- Analyze data gathered and develop solutions or alternative methods of proceeding



CAREER PATHWAYS



Education & Training

Do you like motivating and helping others?

Do you enjoy working with children?

Do you value education and learning?

What It Takes:

- Strong reading, writing, and oral language skills
- Interpersonal skills
- Patience and caring
- Persistence

Career spotlight

Middle School Teacher

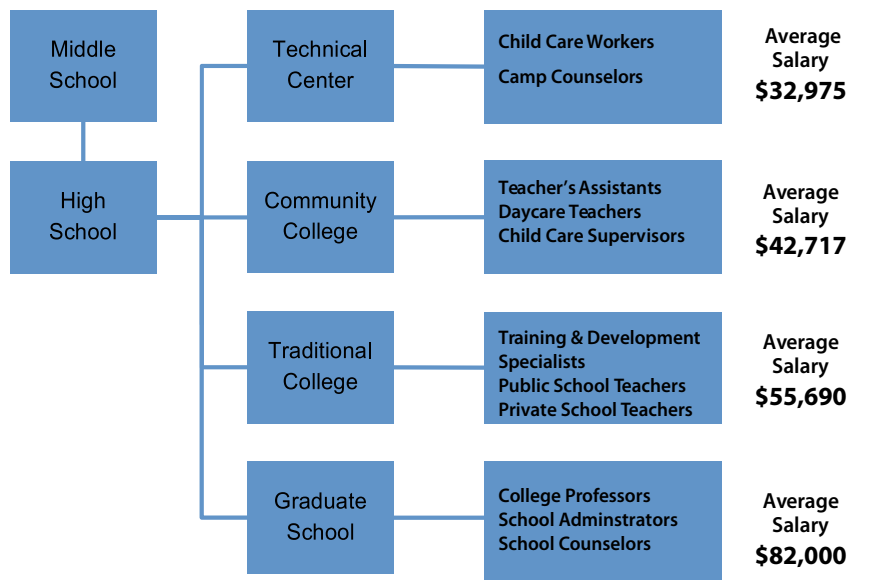
Middle school teachers educate students typically in sixth through eighth grade. Middle school teachers help students build on the fundamentals taught in elementary school and prepare students for the more difficult curriculum they will face in high school. Middle school teachers typically do the following:

- Plan lessons that teach students a subject, such as biology and history
- Assess students to evaluate their abilities, strengths, and weaknesses
- Teach lessons they have planned to an entire class or to smaller groups
- Grade students' assignments to monitor their progress
- Communicate with parents about their child's progress
- Work with students individually to help them overcome specific learning challenges
- Prepare students for standardized tests required by the state
- Develop and enforce classroom rules
- Supervise students outside of the classroom—for example, at lunchtime or during detention

The Education and Training cluster is about using your ability to motivate and your love of people to provide education and training that reaches individuals of all ages and across a range of industries. Careers include teaching in a classroom, leading as a college president and serving in your community as a social worker. During this time period a number of older teachers are expected to retire, which is expected to improve job prospects for younger educators. The increased emphasis on early childhood education is also driving the demand for preschool teachers.



CAREER PATHWAYS



Energy

Careers in the energy industry relate to extracting or harnessing power from a variety of sources, refining it and distributing it, and ensuring its safe use by consumers. With vast supplies of natural resources and ever-improving technologies, the United States is a global leader in the production of energy. Non-renewable energy sources include oil and natural gas, nuclear, and coal.

- Oil and natural gas account for nearly 60% of current energy production.
- The exploration and extraction of shale and deep-water resources has led to growth in this field with many jobs in western states or off-shore areas.
- Renewable energy sources include solar, wind, hydroelectric, and biomass.
- Experts predict increasing shifts to “green” energy in the coming decades to meet ever-growing demand.
- Technology advances will make renewables more cost effective.
- The safe distribution of electricity is another vital aspect of the energy industry. Different energy sources may be used to generate electrical power for both business and home needs

Do you like problem-solving & trouble-shooting?

Are you mechanically inclined?

Are you passionate about finding alternative practices to stop human impact on climate change?

What It Takes:

Strong math application and mechanical skills

Good time management and project-oriented approach

Ability to work with a team to solve problems in a hands-on environment



spotlight

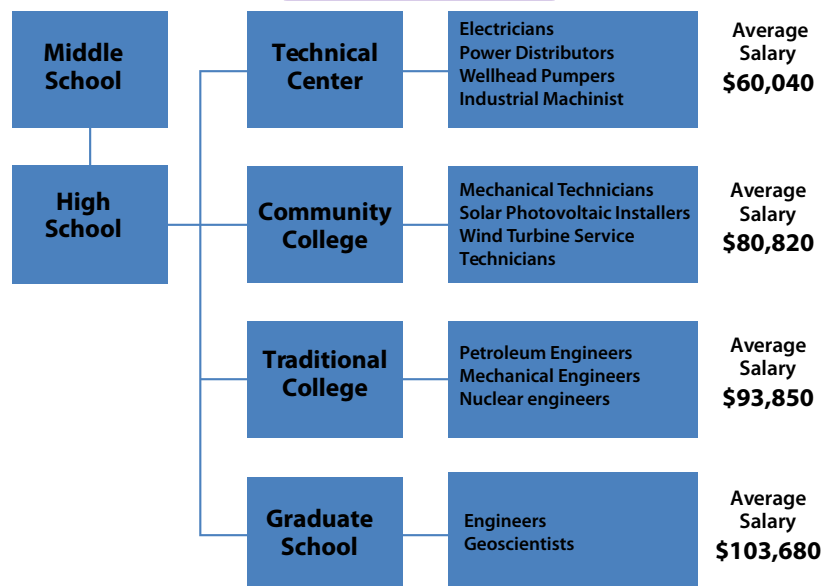
Wind Turbine Service Technician

Inspect, diagnose, adjust, or repair wind turbines. Perform maintenance on wind turbine equipment including resolving electrical, mechanical, and hydraulic malfunctions.

Your day might include things like:

- Troubleshoot equipment or systems operation problems.
- Repair green energy equipment or systems.
- Maintain work equipment or machinery.
- Test electrical circuits or components for proper functioning.
- Test mechanical equipment to ensure proper functioning.
- Climb equipment or structures to access work areas.
- Maintain inventories of materials, equipment, or products.
- Test mechanical systems to ensure proper functioning.
- Test electrical equipment or systems to ensure proper functioning.
- Train others in operational procedures.
- Measure equipment outputs.
- Inspect mechanical equipment to locate damage, defects, or wear.

CAREER PATHWAYS



Finance

Do you like the stock market?

Do you like working with money?

Do you like planning for the future?

What It Takes:

- Great communications skills
- Confidence working with figures
- Teamwork and collaboration

The Finance cluster is about using your skills in math and statistics to prepare for well-paying careers in financial and investment planning, banking, insurance, and business financial management. Every part of the economy offers a career in this field, providing endless opportunities to work in a variety of areas.



spotlight

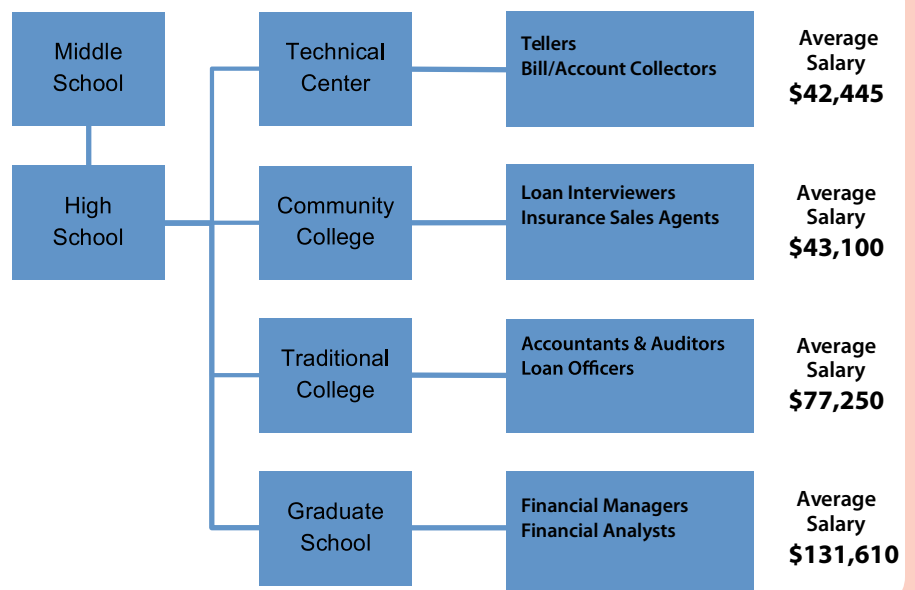
Business Banker

Business bankers work in a financial institution and manage a business loan portfolio that may include small and/or large organizations. They perform careful analysis of prospective clients' needs and best options, working with the client to determine optimal banking solutions. In addition, business bankers are in charge of communicating with current clients to ensure all needs are being met and questions are answered. Individuals in this position may also need to negotiate and set terms for loans.

Other activities may include:

- Analyzing banking and loan transactions for new and existing clients
- Delivering the best financial return on investments
- Actively monitoring and managing banking relationships to ensure that client goals and objectives are met
- Assessing client needs and proposing useful solutions that deliver positive financial results
- Identifying, engaging, and welcoming new clients into the bank family

CAREER PATHWAYS



Government & Public Administration

The Government and Public Administration cluster is about using your passion for public service to prepare to work in a diverse array of jobs found in local, state and federal government. Virtually every occupation can be found within this field. You may help protect our country, represent our interests abroad, or pass and enforce laws. Employment of financial examiners is expected to grow due to the increase in financial regulations. Interpreters and translators should see job growth due to increasing globalization, including immigration and international trade. Those who speak frequently translated languages, such as French and Spanish, will see the most demand for jobs. Hiring of real estate appraisers and assessors is expected to increase driven by population increases and economic expansion, which are expected to increase the need for property.

Are you passionate about public service?

Do you believe in equity and appreciate diversity?

Do you like learning new languages and understanding different cultures?

What It Takes:

Understanding and respecting cultural differences

Strong writing & reading skills

Strong oral language skills

Speaking multiple languages



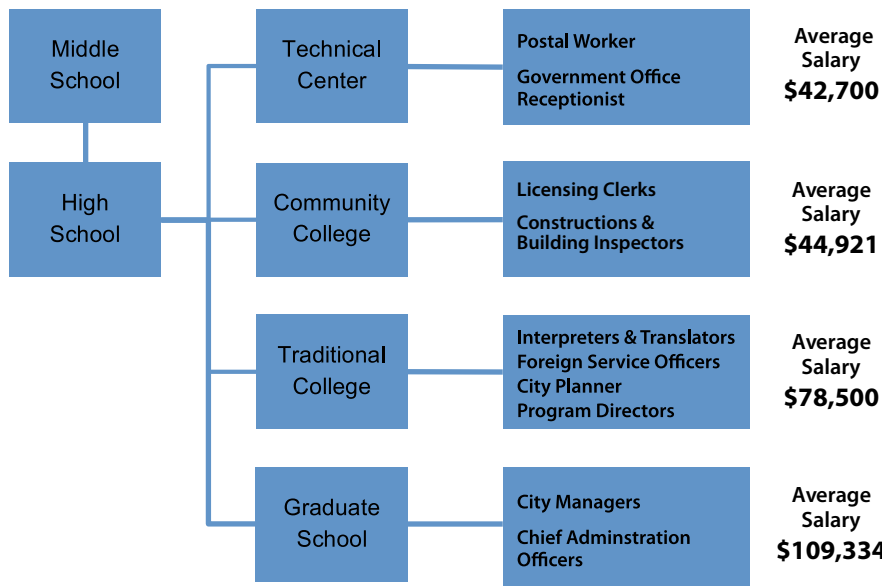
spotlight

Interpreter & Translator

Interpreters and translators aid communication by converting messages or text from one language into another language. Although some people do both, interpreting and translating are different professions: interpreters work with spoken communication, and translators work with written communication. Interpreters convert information from one spoken language into another—or, in the case of sign language interpreters, between spoken language and sign language. The goal of an interpreter is to have people hear the interpretation as if it were the original language. Interpreters usually must be fluent speakers or signers of both languages, because they communicate back and forth among people who do not share a common language.

- Convert concepts in the source language to equivalent concepts in the target language
- Compile information and technical terms into glossaries and terminology databases to be used in translations
- Speak, read, and write fluently in at least two languages, one of which is English
- Relay the style and tone of the original language
- Render spoken messages accurately, quickly, and clearly

CAREER PATHWAYS



Health Sciences

Are you interested in the human body?

Do you like to help people?

What It Takes:

- Strong math, science, and computer skills
- Attention to details
- Wanting to help and comfort others
- Ability to work on a team



spotlight



Diagnostic Medical Sonographer

Want to work with really high tech machinery? The most common question this person gets is: "Is it a boy or a girl?" They also work with doctors to diagnose other conditions. Sonographers, also called *ultrasound technicians* and *diagnostic medical sonographers*, use ultrasound high frequency sound waves to produce images of internal body tissues. This helps doctors diagnose and monitor a variety of conditions such as heart disease, pregnancy and cancer.

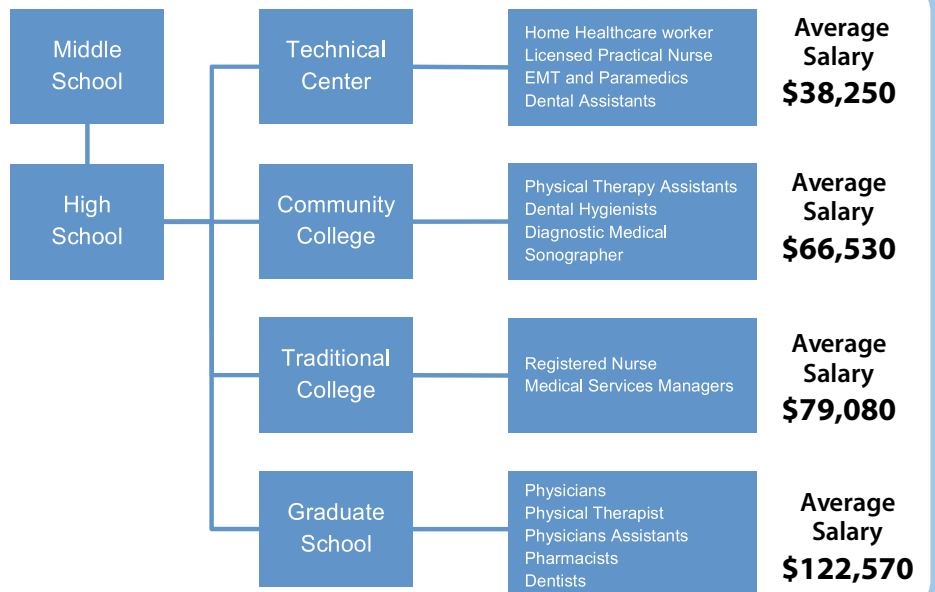
They work in:

- Hospitals
- Physicians' offices
- Imaging clinics
- Medical and diagnostic laboratories

Health care is one the fastest growing labor markets in the world. There are a lot of careers in health science other than doctors and nurses. The Bureau of Labor Statistics shows that this area of health and medical sciences will grow by 39% in the next five years with median annual wage of \$65,860. You can start your career in this field with an associate's degree and certification.



CAREER PATHWAYS

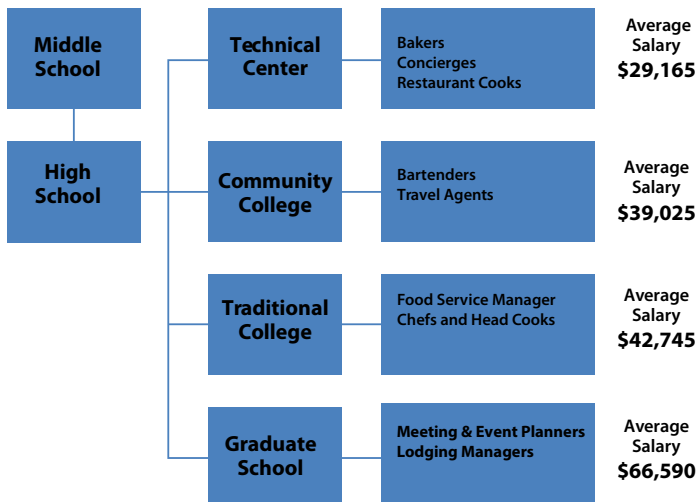


Hospitality & Tourism

Hospitality & Tourism encompasses the management, marketing, and operations of restaurants and other food services, lodging, attractions, recreation events and travel related services. Jobs in this career cluster include travel agents who help people plan their ideal vacation, and chefs and bakers who prepare their own culinary masterpieces. Competition in this field is fierce. Employment of meeting, convention, and event planners is expected to grow rapidly as companies become increasingly widespread and are looking for opportunities to bring their employees together. Job seekers with a college degree in hospitality management or administration will have the best prospects. Virginia tourism generated approximately \$21.5 billion in revenue and supported 213,000 jobs in 2013.



CAREER PATHWAYS



Do you have a passion for people?

Would you like a career involving travel, food, or event planning?

What It Takes:

- A positive attitude and a desire to help others
- Strong written and verbal communication skills
- Ability to work in a fast-paced team environment
- Multi-tasking and organization skills with attention to detail



spotlight

Meeting, Convention, and Event Planner

Event planning is more than good food, pretty decor and entertainment, and a full guest list. An event planner creates, organizes, and supervises each element of an event, convention, or meeting. The responsibility to confirm and coordinate every last detail falls on the event planner. While movies might depict the event planner at an event in full control and troubleshooting problems, the reality is that the majority of the work is done months beforehand. This career offers a creative, organized, and multitasking individual an exciting and always unique opportunity. This field is expected to grow 33% in the next five years.

- Plan, design, and produce events while managing all project delivery elements within time limits
- Conduct market research, gather information, and negotiate contracts prior to closing any deals
- Organize facilities and manage all event details
- Provide coordination for catering, entertainment, transportation, location, special guests, & promotional materials
- Ensure compliance with insurance, legal, health, and safety obligations

Human Services

Do you enjoy working with people?

Do you want to help improve the quality of life for others?

What It Takes:

Strong communication and interpersonal skills

Problem solving skills

Patience and compassion

Wanting to support others

Ability to work on a team



Emergency Room Social Worker

Are you calm under pressure? Do you want to support people in crisis? When most people think of social workers, they think of child safety and custody issues, welfare recipients and the mentally ill, but Emergency Room (ER) Social Worker training encompasses much more. Because any person can end up in the ER, these social workers have to be prepared for almost anything. They perform psychiatric and suicide evaluations to decide if it is safe for a patient to be discharged. They do stress evaluations and death notifications. They counsel victims of violent crimes, substance abusers and the families of dead or dying patients. In addition to these responsibilities, the ER social worker performs countless tasks, small and large, which aren't in any job description and often involve last minute improvisation. More accurately, everything that isn't medical and that needs to get done is left for these specialized social workers to do.

Human Services cluster is projected to experience about 16 percent growth in Virginia between 2014 and 2024. The Human Services cluster uses your skills to provide support to families and individuals with services from working in early childhood care to providing mental health services for older adults. This diverse Career Cluster allows you to work in a variety of settings including health care, spas, schools, and community centers. It is expected that more social workers will be needed in the coming years. There should be an even greater need for mental health and substance abuse social workers. The massage therapy industry also should see a boost in workers.



CAREER PATHWAYS



Information Technology

The Information Technology cluster uses your love of technology to learn how to design, develop, and manage different types of software and hardware programs. Though this field requires a solid foundation in math and science as well as strong technical skills, there are careers in information technology in virtually every part of the economy.

Do you like working with computers?

Do you like solving problems?

Do you like working with software?

What It Takes:

- Excellent problem solving
- Math and science knowledge
- Understanding technology



spotlight

Support Technician, Information Technology

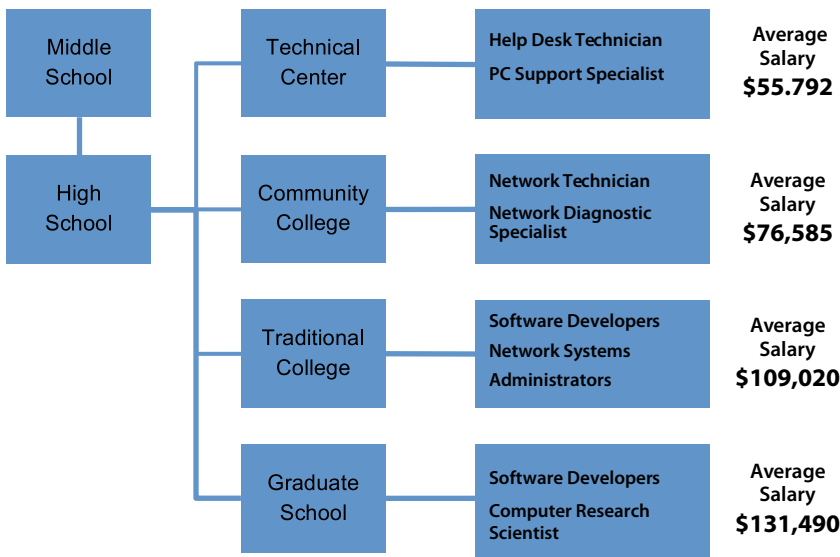
Support technicians maintain computers, network servers and phone technology in business settings. They often work with the hardware, repairing or replacing defective equipment. They install new equipment or upgraded software and conduct testing on new or current software. Support technicians may be responsible for diagnosing problems in computer hardware and may be called upon to troubleshoot problems for users. Support technicians collect outdated equipment for recycling or disposal and will usually be the people responsible for installing new computers and attaching peripheral equipment such as printers.

Other activities include:

- Installing, updating, and repairing software on organization systems
- Tracking and monitoring day-to-day performance of systems, and conducting analysis with the goal of improving performance
- Responding to requests for new or configured hardware or software, and keeping inventory up to date
- Troubleshooting hardware and software problems, logging problems and documenting fixes



CAREER PATHWAYS



Law, Public Safety, Corrections & Security

Are you a good communicator?

Can you work in a team?

Are you mentally & physically strong during stressful situations?

Do you want to help others?



What it takes?

- Loyalty to country, community
- Soundness of moral principals
- Dependable performance and attitude
- Physical fitness
- Acceptance of working long and varied hours

The Law, Public Safety, Corrections and Security cluster is about planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services. The justice system is a complex field that employs many people to keep communications safe. This cluster offers great careers for people who want to give back to their community. Police officers, emergency medical technicians, and firefighters are vital for citizen's security. This cluster also encompasses the legal field. Demand for emergency medical technicians and paramedics should increase by nearly 50 percent by 2022

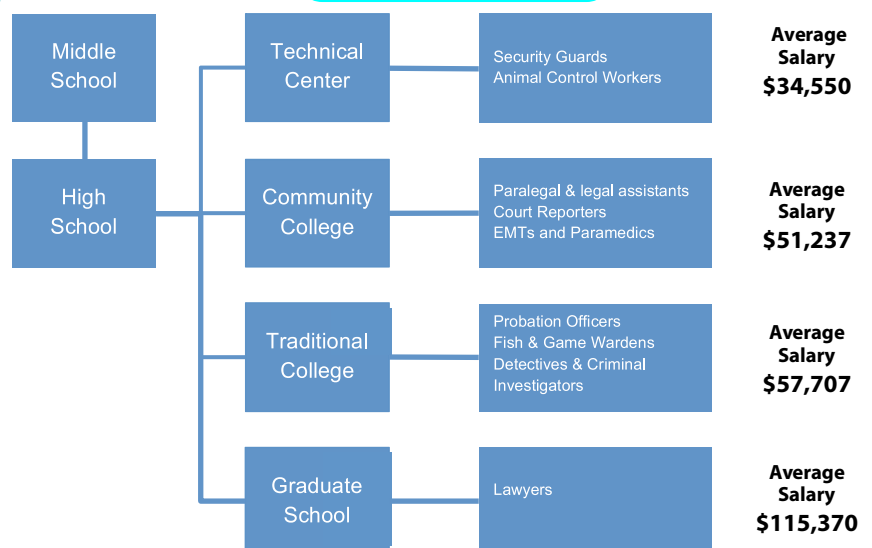
Career spotlight

Crime Scene Investigator

Crime Scene Investigators typically walk the scene of a crime searching for useful evidence such as fingerprints, hairs, or fibers, for later analysis at a crime lab. Attention to detail and critical thinking are essential skills. Additionally, crime scene techs will witness a range of crime scenes, including those following violent crimes, so a strong stomach is critical.

- Schedules may include night and/ or weekend shifts
- May work in an office or laboratory setting, outside in all types of locations and conditions, or both
- Need to work well as a team member & possess excellent communication skills

CAREER PATHWAYS



Manufacturing

The Manufacturing cluster is about planning, managing and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering. Today, highly automated manufacturing requires extremely technical skills. Employers continue to need machinists as they purchase new equipment, modify production techniques, and implement design changes more rapidly. Industrial machinery mechanics and maintenance workers are needed as the use of sophisticated manufacturing machinery requires proper maintenance. The Quality Assurance and Maintenance, Installation and Repair pathways are projected to employ 103,600 Virginians.

Do you like working with your hands?

Do you enjoy working with machines & computers?

Would you like to see your ideas/work in public?



What It Takes:

- Strong math and science skills
- Focus and attention to detail
- Excellent problem solving skills
- Willingness to be a productive teammate



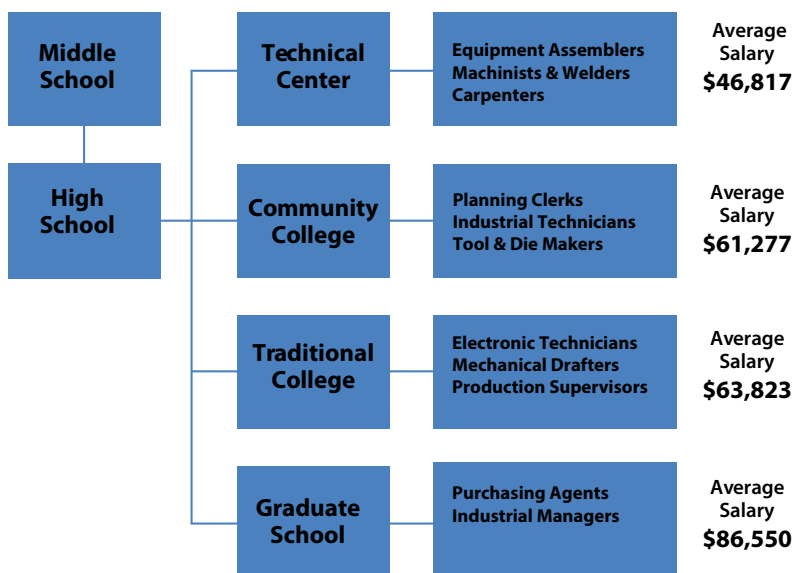
Career spotlight

Machinist

This is where the hands-on training of the technical world meets the math and science world. Machinists set up and operate mechanically-controlled and computer-controlled machine tools to modify parts or produce precision metal parts, tools, and instruments. The industry continues to innovate and upgrade to automated technology but machinists are needed to set up, monitor, and maintain the systems.

- Operate machine tools such as lathes, milling machines, and grinders to produce metal parts
- Review electronic or written blueprints or specifications for a job
- Shape steel, aluminum, titanium, plastic, silicon and other materials
- Plan the sequence of cutting and finishing operations
- Use manual and computer-controlled machinery

CAREER PATHWAYS



Marketing

Do you like working with people?

Do you enjoy selling things?

Do you like planning events?



spotlight

Visual merchandiser

Visual merchandisers use their design skills to help promote the image, products and services of businesses and other organizations. Visual merchandisers usually focus on designing displays, stands and panels which are used at exhibitions, conferences and other events. They also produce point-of-sale displays, which are stock containers that are usually mass-produced and installed in hundreds of retail outlets.

Other activities may include:

- Promoting the image, products and services of businesses and other organizations.
- Designing displays, stands and panels for exhibitions, conferences and other events.
- Creating point-of-sale displays (which are installed in hundreds of retail outlets).
- Researching to get an understanding of what is needed, and coming up with design ideas.
- Purchasing elements such as lighting, props and accessories.
- Making the most of the space available, working within a budget and meeting deadlines.

Installing and dismantling displays may also be part of the job description.

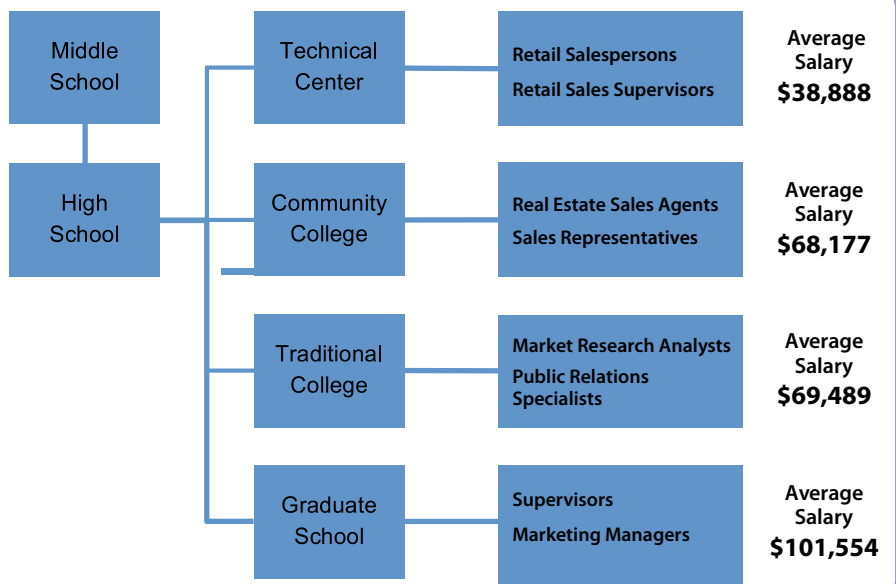
The Marketing cluster flexes your creative skills for a career in advertising, public relations, sales, or planning. This Career Cluster will prepare you to work on projects such as promotional campaigns, event planning and new sales techniques.

What It Takes:

- Great interpersonal skills
- Confidence working with facts and figures
- Strong organizational skills



CAREER PATHWAYS



STEM & Information Technology

The Information Technology & STEM clusters are about entry-level, technical, and professional careers related to the design, development, support, and management of hardware, software, multimedia, and systems integration services. As technology advances across the globe, it is important to have individuals who understand and can support the new technological demands. All areas of scientific research (e.g., physical science, social science, engineering) need workers to possess advanced technology skills and have in depth knowledge in math and science. Job opportunities in these clusters will vary depending upon specialty. Over the next decade, jobs aligned with advancing technology are predicted to boom as new career opportunities open.

Do you like puzzles?

Are you a problem solver?

Does inventing & designing things intrigue you?

What It Takes:

Strong math and science skills

Focus and attention to detail while being organized

Enjoy working with a team to solve problems



spotlight

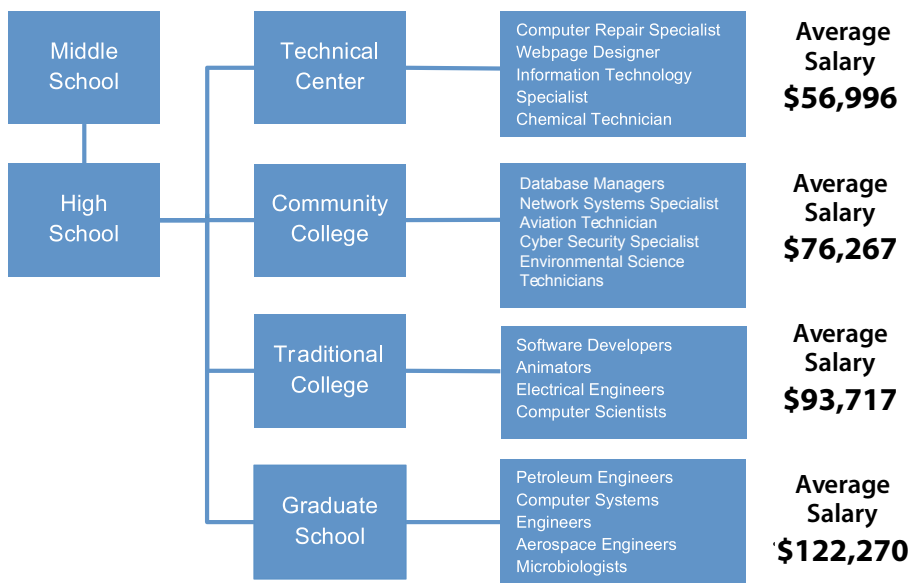
Animation



The world of animation can be in 2D, 3D model making, stop frame, or computer animation. While the basic animation skill continues to be the centered around the artistic ability of the animator, it is becoming a more technical and computer-driven occupation. Producing an animation involves many stages and processes. This can include generating ideas in the development stage, to building models during production, and editing the final piece in post-production. Each stage can involve several specific tasks carried out by different people. For example:

- Directors and producers create ideas, plan the project, and find funding
- Production designers create the look
- Storyboard artists take the script or ideas and show the story in a visual way
- Layout artists draw how each shot will look
- Digital painters fill in the lines
- Editors add the soundtrack and produce the finished piece

CAREER PATHWAYS



Transportation & Logistics

Do you enjoy working on vehicles, heavy equipment, or aircraft?

Are you good with math and problem solving?

What it takes:

- Solid math skills
- Good time management skills
- Impeccable driving record
- Willingness to travel



spotlight

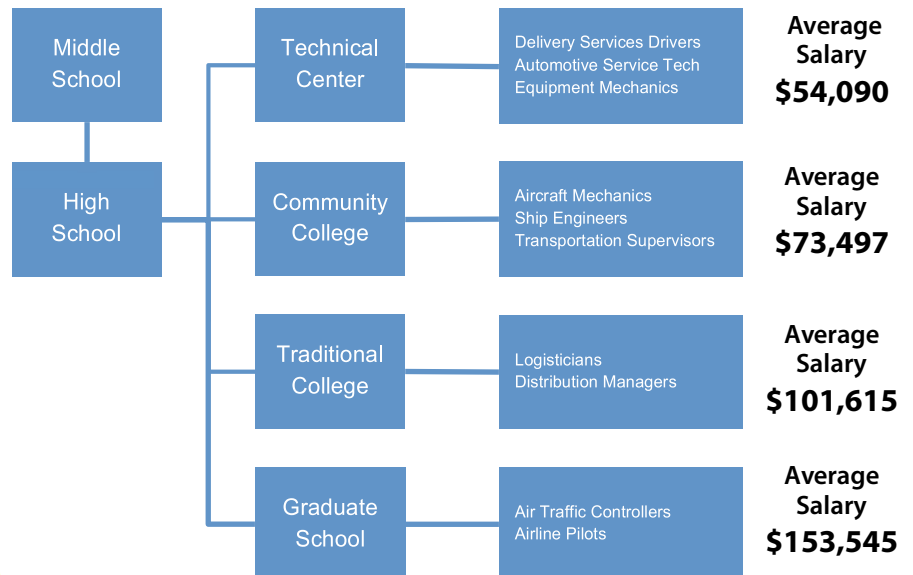
Mechanic

Mechanics are laborers that are highly skilled in maintaining or operating machinery, motors, engines, etc. The demand for mechanics is growing as people are driving cars longer and equipment becomes more sophisticated. Businesses, however, report having difficulty finding workers with the right skills!

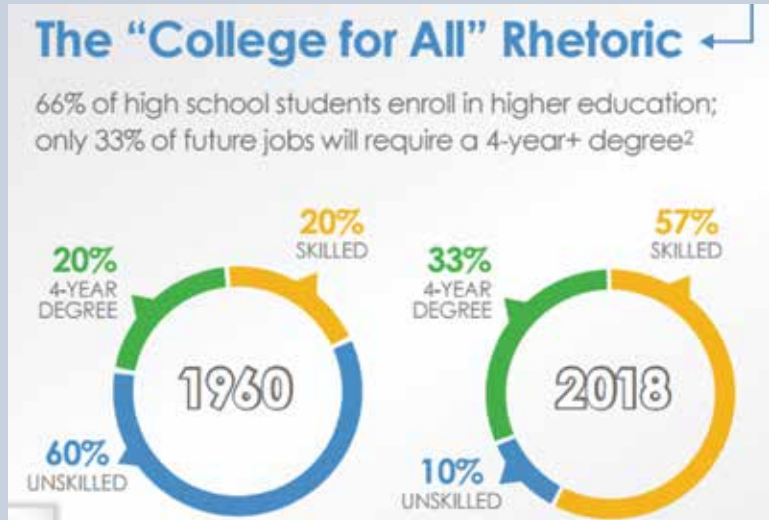
- Keeps equipment available for use
- Inspects machinery for defects
- Completes preventive maintenance
- Repairs mechanical and electrical systems malfunctions
- Checks equipment for damage, record hours used, mileage and fuel levels
- Greets customers and assists with customer inquiries

The Transportation, Distribution and Logistics cluster is about planning, management and movement of people, materials and goods by road, pipeline, air, rail and water and related support services dealing with infrastructure, logistics, equipment, and facilities. Highly skilled automotive mechanics should have an easy time finding a job since people are driving their cars longer than they used to. The need for truck drivers will increase as the demand for goods increases. Formal postsecondary automotive training may help some candidates find jobs as automotive technicians and service professionals.

CAREER PATHWAYS



Why Is Career Planning Important?



Did you know?

- Today, you need math, language arts, and technology skills for EVERY job.
- Math and science intensive jobs are outpacing job growth at a ratio of 3:1 (meaning there are 3 math and science intensive jobs to every 1 job that is not).
- When it comes to earning big without spending big on college, it pays to go with specialized or technical degrees.
- Careers in fields such as health care, manufacturing, and information technology offer median earnings of up to \$55,000 or more for graduates with an associate's degree.

1:2:7 True Ratio of Jobs in Our Economy?



Blue Ridge Career Pathways Consortium