

A photograph of three graduates in black caps and gowns, smiling and looking upwards. The male graduate on the left is wearing a blue and white striped shirt under his gown. The two female graduates are in the center and right. The background is a light blue sky with some green foliage visible on the right.

What's Your Plan?

HELPING YOU EXPLORE YOUR FUTURE

Plan It, Do It

*We have the questions,
you have the answers.*

Making Money

*Learn where to look to make the
money you want. Learn to find
the career that matches all
your desires.*

Career Clusters

*A tool to help you explore
your interests, target career
areas and plan your future.*

Life After High School

*Education after high school is a must-do, and there
are a lot of options for you: on-the-job training,
apprenticeships, community colleges, the military
and four-year colleges and universities.*



MissouriConnections.org

Connect to Your Future

Career Clusters

Within the six Career Paths are 16 Career Clusters to further help with career exploration and career planning. It is recommended that you select a Career Cluster of interest before or during high school to shape your plans for coursework. As a high school student, choosing a Career Cluster is about selecting an area for deeper exploration, not locking in a life-long career plan.

Arts, A/V Technology and Communications

Audio and Video Technology and Film
Journalism and Broadcasting
Printing Technology
Telecommunications
Performing Arts
Visual Arts

Arts & Communication

Creative Path

Health Science

Biotechnology Research and Development
Therapeutic Services
Diagnostics Services
Health Informatics
Support Services

Health Services

Health Path

Transportation, Distribution and Logistics

Transportation Operations
Logistics, Planning and Management Services
Warehousing and Distribution
Center Operations
Facility and Mobile
Equipment Maintenance
Transportation Systems and Infrastructure Planning, Management and Regulation
Health, Safety and Environmental Management
Sales and Services

Science, Technology, Engineering and Mathematics

Engineering and Technology
Science and Math

Manufacturing

Production
Manufacturing Production
Process Development
Health, Safety and Environmental Assurance
Quality Assurance
Maintenance, Installation and Repair
Logistics and Inventory Control

Architecture and Construction

Design and Pre-Construction
Construction
Maintenance and Operations

Industrial & Engineering Technology

Building & Fixing Path

Essential Knowledge & Skills

Academic Foundations
Ethics & Legal Responsibilities
Systems Leadership & Teamwork
Informational Technology Applications
Employability & Career Development
Problem Solving & Critical Thinking
Safety, Health & Environmental Communications
Technical Skills

Business, Management & Technology

Business Path

Natural Resources Agriculture

Nature Path

Human Services

Helping Path

Human Services

Early Childhood Development and Services
Counseling and Mental Health Services
Family and Community Services
Personal Care Services
Consumer Services

Hospitality and Tourism

Restaurants and Food and Beverage Services
Recreation, Amusement and Attractions
Travel and Tourism
Lodging

Government and Public Administration

Public Management and Administration
Governance
National Security
Foreign Service
Planning
Revenue and Taxation
Regulation

Law, Public Safety, Corrections and Security

Correction Services
Emergency and Fire Management Services
Security and Protective Services
Law Enforcement Services
Legal Services

Education and Training

Administration and Administrative Support
Professional Support Services
Teaching and Training

Information Technology

Network Systems
Web and Digital Communications
Programming and Software Development
Information Support and Services

Marketing

Marketing Management
Professional Sales
Merchandising
Marketing Communications
Marketing Research

Business Management and Administration

General Management
Human Resources Management
Business Information Management
Administrative Support
Operations Management

Finance

Securities and Investments
Business Finance
Banking Services
Insurance
Accounting

Agriculture, Food and Natural Resources

Agribusiness Systems
Animal Systems
Food Products and Processing Systems
Natural Resources and Environmental Service Systems
Power, Structural and Technical Systems
Plant Systems

Career Path

Career Cluster

Career Pathway

Check It Out!

www.missouriconnections.org
www.careerclusters.org
www.missourieconomy.org
www.thefutureschannel.com
www.acrnetwork.org
www.dreamit-doit.com
www.dhe.mo.gov

When you are ready to narrow things even further, there are two to seven Career Pathways within each Career Cluster. The Career Pathways can help you in two ways. First, if you're sure about your Career Cluster of interest, you could select a Career Pathway of interest and hone your plans that much more. Second, exploring the skills and occupations in each pathway can give you a better understanding of the cluster and whether it is a good match for you.

Career Pathways



Whether you have known since the first grade that you want to be a doctor or you have no idea what work you might do after high school, taking a closer look at the careers in your community can be a great benefit.

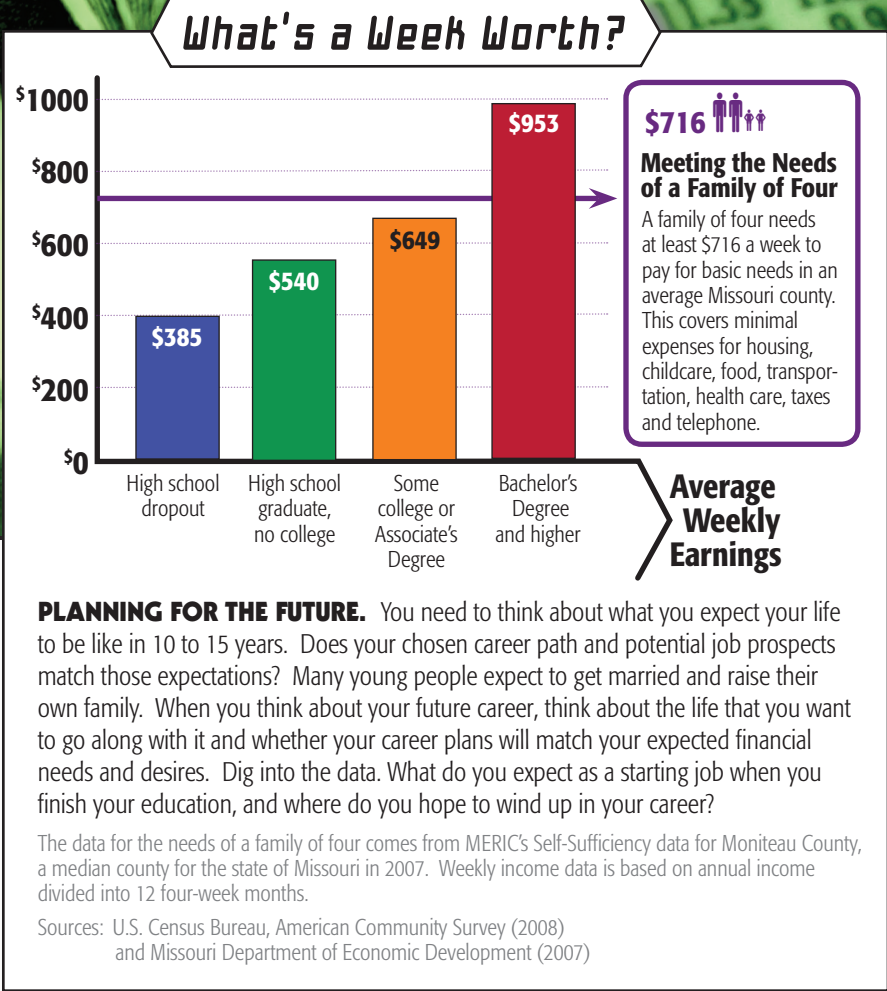
- How much do people with that career make a year?
- Are people hiring in this field now, and do they expect to be hiring in the future?
- How many openings are expected in the area?
- What are the best paying, most available jobs in the state and in your region?

The Missouri Economic Research and Information Center offers wonderful information about all manner of jobs in our state. You can find the answers to these and other questions at the Missouri Connections website, www.missouriconnections.org or the MERIC website, www.missourieconomy.org

While you are exploring career options, remember to go beyond

the virtual. Nothing compares with the first-hand information you can get by talking with someone in your Career Cluster of interest.

Participate in job shadowing or an internship, complete a project at school that simulates work in your chosen field, volunteer in your community for first-hand exploration, or take a hands-on career education course related to your career interests.

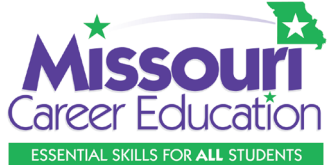


At the same time, it is very important to consider the kind of life you would like to live. What do you expect to have, and what do you expect to do when you are an adult?

There are many resources available on the Internet and through your local library to help you estimate expenses, plan a budget and figure out whether the job you expect to have matches the lifestyle you want. One such website is available through the Federal Reserve Bank of Dallas at www.dallasfed.org/ca/wealth/index.cfm

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The Missouri Department of Elementary and Secondary Education, Office of College and Career Readiness
and
The Missouri Center for Career Education.

For information about career education in Missouri, call (573)751-2660.
For information about ordering or printing this document, contact MCCE at (660)543-8206.



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my
Top
5

Occupation / Career	Salary Range	Job Availability and Outlook

Career Interest Survey

Circle each item that matches your personality. Write the number in the hexagon at the top and find your top three clusters.

>> PAGE 5

Activities that I like to do:	Personal qualities that describe me:	School subjects that I like:
<ol style="list-style-type: none">1. Learn how things grow and stay alive.2. Make the best use of the earth's natural resources.3. Hunt and/or fish.4. Protect the environment.5. Be outdoors in all kinds of weather.6. Plan, budget and keep records.7. Operate machines and keep them in good repair.	<ol style="list-style-type: none">1. Self-reliant2. Nature lover3. Physically active4. Planner5. Creative problem solver	<ol style="list-style-type: none">1. Math2. Life Sciences3. Earth Sciences4. Chemistry5. Agriculture

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Activities that I like to do:	Personal qualities that describe me:	School subjects that I like:
<ol style="list-style-type: none">1. Read and follow blueprints and/or instructions.2. Picture in my mind what a finished product looks like.3. Work with my hands.4. Do work that requires precise results.5. Solve technical problems.6. Visit and learn from beautiful, historic or interesting buildings.7. Follow logical, step-by-step procedures.	<ol style="list-style-type: none">1. Curious2. Good at following directions3. Pay attention to detail4. Good at visualizing possibilities5. Patient and persistent	<ol style="list-style-type: none">1. Math2. Drafting3. Physical Sciences4. Construction Trades5. Electrical Trades, Heat, Air Conditioning and Refrigeration, or Technology Education

>> PAGE 16

Activities that I like to do:	Personal qualities that describe me:	School subjects that I like:
<ol style="list-style-type: none">1. Use my imagination to communicate new information to others.2. Perform in front of others.3. Read and write.4. Play a musical instrument.5. Perform creative, artistic activities.6. Use video and recording technology.7. Design brochures and posters.	<ol style="list-style-type: none">1. Creative and imaginative2. Good communicator / good vocabulary3. Curious about new technology4. Relate well to feelings and thoughts of others5. Determined / tenacious	<ol style="list-style-type: none">1. Art / Graphic Design2. Music3. Speech and Drama4. Journalism / Literature5. Audio-Visual Technologies

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Activities that I like to do:	Personal qualities that describe me:	School subjects that I like:
<ol style="list-style-type: none">1. Perform routine, organized activities but can be flexible.2. Work with numbers and detailed information.3. Be the leader in a group.4. Make business contact with people.5. Work with computer programs.6. Create reports and communicate ideas.7. Plan my work and follow instructions without close supervision.	<ol style="list-style-type: none">1. Organized2. Practical and logical3. Patient4. Tactful5. Responsible	<ol style="list-style-type: none">1. Computer Applications / Business and Information Technology2. Accounting3. Math4. English5. Economics

>> PAGE 6

Activities that I like to do:	Personal qualities that describe me:	School subjects that I like:
<ol style="list-style-type: none">1. Communicate with different types of people.2. Help others with their homework or to learn new things.3. Go to school.4. Direct and plan activities for others.5. Handle several responsibilities at once.6. Acquire new information.7. Help people overcome their challenges.	<ol style="list-style-type: none">1. Friendly2. Decision maker3. Helpful4. Innovative / inquisitive5. Good listener	<ol style="list-style-type: none">1. Language Arts2. Social Studies3. Math4. Science5. Psychology

>> PAGE 18

Activities that I like to do:	Personal qualities that describe me:	School subjects that I like:
<ol style="list-style-type: none">1. Work with numbers.2. Work to meet a deadline.3. Make predictions based on existing facts.4. Have a framework of rules by which to operate.5. Analyze financial information and interpret it to others.6. Handle money with accuracy and reliability.7. Take pride in the way I dress and look.	<ol style="list-style-type: none">1. Trustworthy2. Orderly3. Self-confident4. Logical5. Methodical or efficient	<ol style="list-style-type: none">1. Accounting2. Math3. Economics4. Banking / Financial Services5. Business Law

>> PAGE 7

Activities that I like to do:	Personal qualities that describe me:	School subjects that I like:
<ol style="list-style-type: none">1. Be involved in politics.2. Negotiate, defend and debate ideas and topics.3. Plan activities and cooperate with others.4. Work with details.5. Perform a variety of duties that may change often.6. Analyze information and interpret it to others.7. Travel and see things that are new to me.	<ol style="list-style-type: none">1. Good communicator2. Competitive3. Service-minded4. Well-organized5. Problem solver	<ol style="list-style-type: none">1. Government2. Language Arts3. History4. Math5. Foreign Language

>> PAGE 15

Activities that I like to do:	Personal qualities that describe me:	School subjects that I like:
<ol style="list-style-type: none">1. Work under pressure.2. Help sick people and animals.3. Make decisions based on logic and information.4. Participate in health and science classes.5. Respond quickly and calmly in emergencies.6. Work as a member of a team.7. Follow guidelines precisely and meet strict standards of accuracy.	<ol style="list-style-type: none">1. Compassionate and caring2. Good and following directions3. Conscientious and careful4. Patient5. Good listener	<ol style="list-style-type: none">1. Biological Sciences2. Chemistry3. Math4. Occupational Health5. Language Arts

>> PAGE 8

Activities that I like to do:	Personal qualities that describe me:	School subjects that I like:
<ol style="list-style-type: none"> Investigate new places and activities. Work with all ages and types of people. Organize activities in which other people enjoy themselves. Have a flexible schedule. Help people make up their minds. Communicate easily, tactfully and courteously. Learn about other cultures. 	<ol style="list-style-type: none"> Tactful Self-motivated Works well with others Outgoing Slow to anger 	<ol style="list-style-type: none"> Language Arts / Speech Foreign Language Social Sciences Marketing Food Services

>> PAGE 9

Activities that I like to do:	Personal qualities that describe me:	School subjects that I like:
<ol style="list-style-type: none"> Care about people, their needs and their problems. Participate in community services and/or volunteering. Listen to other people's viewpoints. Help people be at their best. Work with people, preschool to old age. Think of new ways to do things. Make friends with different kinds of people. 	<ol style="list-style-type: none"> Good communicator / good listener Caring Non-materialistic Intuitive and logical Non-judgmental 	<ol style="list-style-type: none"> Language Arts Psychology / Sociology Family and Consumer Sciences Finance Foreign Language

>> PAGE 19

Activities that I like to do:	Personal qualities that describe me:	School subjects that I like:
<ol style="list-style-type: none"> Work with computers. Reason clearly and logically to solve complex problems. Use machines, techniques and processes. Read technical materials and diagrams and solve technical problems. Adapt to change. Play games and figure out how they work. Concentrate for long periods without being distracted. 	<ol style="list-style-type: none"> Logical / analytical thinker See details in the big picture Persistent Good concentration skills Precise and accurate 	<ol style="list-style-type: none"> Math Science Computer Technology / Computer Applications Communications Graphic Design

>> PAGE 10

Activities that I like to do:	Personal qualities that describe me:	School subjects that I like:
<ol style="list-style-type: none"> Work under pressure or in the face of danger. Make decisions based on my own observations. Interact with other people. Be in positions of authority. Respect rules and regulations. Debate and win arguments. Observe and analyze people's behavior. 	<ol style="list-style-type: none"> Adventurous Dependable Community-minded Decisive Optimistic 	<ol style="list-style-type: none"> Language Arts Psychology / Sociology Government / History Law Enforcement First Aid / First Responder

>> PAGE 12

Activities that I like to do:	Personal qualities that describe me:	School subjects that I like:
<ol style="list-style-type: none"> Work with my hands and learn that way. Put things together. Do routine, organized and accurate work. Perform activities that produce tangible results. Apply math to work out solutions. Use hand and power tools and operate equipment and machinery. Visualize objects in three dimensions from flat drawings. 	<ol style="list-style-type: none"> Practical Observant Physically active Step-by-step thinker Coordinated 	<ol style="list-style-type: none"> Math-Geometry Chemistry Trade and Industry courses Physics Language Arts

>> PAGE 20

Activities that I like to do:	Personal qualities that describe me:	School subjects that I like:
<ol style="list-style-type: none"> Shop and go to the mall. Be in charge. Make displays and promote ideas. Give presentations and enjoy public speaking. Persuade people to buy products or to participate in activities. Communicate my ideas to other people. Take advantage of opportunities to make extra money. 	<ol style="list-style-type: none"> Enthusiastic Competitive Creative Self-motivated Persuasive 	<ol style="list-style-type: none"> Language Arts Math Business Education / Marketing Economics Computer Applications

>> PAGE 13

Activities that I like to do:	Personal qualities that describe me:	School subjects that I like:
<ol style="list-style-type: none"> Interpret formulas. Find the answers to questions. Work in a laboratory. Figure out how things work and investigate new things. Explore new technology. Experiment to find the best way to do something. Pay attention to details and help things be precise. 	<ol style="list-style-type: none"> Detail-oriented Inquisitive Objective Methodical Mechanically inclined 	<ol style="list-style-type: none"> Math Science Drafting / Computer-Aided Drafting Electronics / Computer Networking Technical classes / Technology Education

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Activities that I like to do:	Personal qualities that describe me:	School subjects that I like:
<ol style="list-style-type: none"> Travel. See well and have quick reflexes. Solve mechanical problems. Design efficient processes. Anticipate needs and prepare to meet them. Drive or ride. Move things from one place to another. 	<ol style="list-style-type: none"> Realistic Mechanical Coordinated Observant Planner 	<ol style="list-style-type: none"> Math Trade and Industry courses Physical Sciences Economics Foreign Language

Write the number of items that match your personality and interests in the hexagon at the top of each block. Then compare clusters and find your top three.

FIND THE CLUSTERS THAT MATCH YOU THE MOST.

This survey does not make any claims of statistical reliability and has not been normed. It is intended for use as a guidance tool to generate discussion regarding careers and is valid for that purpose.
Source: Adapted from the Guidance Division Survey, Oklahoma Department of Career and Technology Education (2005)
The Career Clusters Interest Inventory is being used with permission of:



States' Career Clusters Initiative, 2008,
www.careerclusters.org

Agriculture, Food and Natural Resources

Natural
Resources
Agriculture

CAREER PATHWAYS

- Natural Resources and Environmental Service Systems
- Power, Structural and Technical Systems
- Food Products and Processing Systems
- Agribusiness Systems
- Animal Systems
- Plant Systems

OCCUPATIONS



Chemical Technician
Environmental Compliance
Assurance Manager
Environmental Sampling
Technician
Fisheries Manager
Forest Manager
Hazardous Materials
Handler
Meteorologist
Pollution Prevention and
Control Manager

**Natural Resources
and Environmental
Service Systems**

Agricultural Technologist
Biochemistry Technologist
Equipment Parts Manager
Farm Equipment Mechanic
Global Positioning System
Technician
Remote Sensing Specialist

**Power, Structural
and Technical
Systems**

Bacteriologist
Biochemist
Biochemistry Technologist
Food and Drug Inspector
Food and Fiber Engineer
Food Scientist
Meat, Poultry, Fish Cutters
and Trimmers
Microbiologist

**Food Products and
Processing Systems**

Agricultural Commodity
Broker
Agricultural Economist
Agricultural Loan Officer
Agricultural Products Buyer
International Agri-Marketing
Specialist

**Agribusiness
Systems**

Animal Breeder
Animal Geneticist
Animal Nutritionist
Aquaculturist
Artificial Breeding
Technologist
Farm or Ranch Manager
Veterinarian
Veterinary Technician

Animal Systems

Aquaculturist
Botanist
Farm or Ranch Manager
Forester
Landscape and
Groundskeeping Workers
Plant Breeder and Geneticist
Soil and Water Specialist
Tree Surgeon

Plant Systems

Ag. Commodity Broker \$32-104K
Conservation Scientist \$20-51K
Farm or Ranch Manager \$38-74K
GPS Technician \$21-42K
Landscape Worker \$15-27K
Veterinarian \$40-83K

For more information about salaries
and job outlook in Missouri visit:
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Education and Training

Human
Services

CAREER PATHWAYS.....

- Administration and Administrative Support
- Professional Support Staff
- Teaching and Training

OCCUPATIONS.....



College President
College Dean
Curriculum Developer
Education Administrator
Instructional Media Designer
Librarian
Principal
Superintendent

Administration and Administrative Support

Audiologist
Counselor
Parent Educator
Psychologist
Social Worker
Speech-Language Pathologist

Professional Support Services

Career Education Teacher
College Professor
Community College Instructor
Elementary Teacher Aide
High School Teacher
Human Resource Trainer
Middle School Teacher
Preschool or Kindergarten Teacher
Preschool Aide

Teaching and Traininga

College Administrator \$43-95K
College Professor \$30-89K
Principal \$51-79K
Psychologist \$33-60K
Secondary Teacher \$28-46K
Teacher Aide \$12-20K

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and job outlook in Missouri visit:
www.missourieconomy.org

Government and Public Administration

Human
Services

CAREER PATHWAYS...

- Governance
- Regulation
- Foreign Service
- Public Management and Administration
- Revenue and Taxation
 - National Security
 - Planning

OCCUPATIONS...



Association Executive
Director
City Manager
Chamber of Commerce
Executive Director
Court Administrator
Court Clerk
Foundation Executive
Director
Program Administration
Officer

Public Management and Administration

Assessor
Internal Revenue
Investigator
Revenue Agent
Tax Attorney
Tax Examiner

Revenue and Taxation

Air Defense Artillery
Combat Engineer
Combat Aircraft Pilot
Cryptographer
Electronic Warfare
Operations
Infantry Field Artillery
Intelligence / Counter-
intelligence Agent
Missile and Space Systems
Special Forces

National Security

Ambassador \$25-120K
City Administrator \$25-100K
Code Inspector \$28-46K
Legislative Aide \$30-50K
Lobbyist \$20-80K
Tax Examiner \$25-54K

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and job outlook in Missouri visit:
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Assistant, Deputy or
Chief of Staff
Legislator
Legislative Aide
Lobbyist
Policy Advisor

Governance

Ambassador
Administrative Foreign
Service Officer
Consular Officer
Diplomatic Courier
Economic Foreign Service
Officer
Political Foreign Service
Officer

Foreign Service

Census Clerk
Chief of Vital Statistics
County Clerk
Economic Development
Coordinator
Global Imaging Systems
Specialist

Planning

Aviation Safety Officer
Bank Examiner
Cargo Inspector
Code Inspector
Election Supervisor
Immigration Officer

Regulation

Hospitality and Tourism

Human
Services

CAREER PATHWAYS.....

- Restaurants and Food and Beverage Services
- Recreation, Amusement and Attractions
- Travel and Tourism
- Lodging

OCCUPATIONS.....



Baker
Chef
Counter Service
First Line Supervisor
Food and Beverage
Manager
General Manager
Manager of Food
Preparation and Serving
Workers

**Restaurants and
Food and Beverage
Services**

Conservator
Equipment and Facility
Maintenance
Event Planner
Museum Technician
Museum, Zoo or Aquarium
Exhibit Developer
Parks and Garden Ranger
Recreation Worker

**Recreation,
Amusement and
Attractions**

Director of Sales and
Marketing
Event Planner
Interpreter
Tour Guide
Transportation Specialist
Travel Agent

Travel and Tourism

Food and Beverage
Manager
General Manager
Laundry Attendant
PBX Operator
Reservations Supervisor
Valet Attendant

Lodging

Chef \$18-40K
Event Planner \$24-44K
Food Service Manager \$36-64K
Park Ranger \$28-37K
Recreation Worker \$14-23K
Travel Agent \$19-35K

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Human Services

Human
Services

CAREER PATHWAYS

- Early Childhood Development and Services
- Counseling and Mental Health Services
- Family and Community Services
- Personal Care Services
- Consumer Services

OCCUPATIONS



Childcare Facility Director
Childcare Worker
Nanny
Parent Educator
Preschool Teacher
Teacher Aide

Early Childhood Development and Services

Marriage Therapist
Marriage, Child and Family
Counselor
Mental Health Counselor
Sociologist
Substance Abuse
Social Worker
Vocational Rehabilitation
Counselor

Counseling and Mental Health Services

Child, Family and School
Social Worker
Clergy
Community Food
Service Worker
Community Housing
Service Worker
Geriatric Service Worker
Social and Human
Services Assistant
Vocational Rehabilitation
Service Worker

Family and Community Services

Fitness Trainer
Funeral Director
Hairdresser, Hair Stylist,
Cosmetologist
Massage Therapist
Skin Care Specialist

Personal Care Services

Consumer Advocate
Customer Service
Representative
Financial Advisor
Insurance Representative
Investment Broker

Consumer Services

Cosmetologist / Hair Dresser ... \$13-26K
Financial Advisor \$24-71K
Fitness Trainer \$15-28K
Massage Therapist \$16-40K
Mental Health Counselor \$29-55K
Social Worker \$24-43K

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and job outlook in Missouri visit:

www.missourieconomy.org

Law, Public Safety, Corrections and Security

Human
Services

CAREER PATHWAYS

- Emergency and Fire Management Services
- Security and Protective Services
- Law Enforcement Services
- Correction Services
- Legal Services

OCCUPATIONS



Dispatcher
Emergency Medical Technician
Emergency Management and Response Coordinator
Firefighter
Forest Firefighter
Hazardous Materials Responder
Paramedic

Emergency and Fire Management Services

Certified Security Officer
Computer Security Specialist
Forensic Science Technician
Industrial Espionage Security
Loss Prevention Assistant
Security and Fire Alarm Systems Installer
Security Guard

Security and Protective Services

Animal Control Officer
Bomb Technician
Child Support
Criminal Investigator
Federal Marshall
Park Ranger
Police and Patrol Officer

Law Enforcement Services

Case Manager
Corrections Officer
Probation and Parole Officer
Transport Officer
Youth Services Worker

Correction Services

Arbitrator
Attorney
Court Reporter
Judge
Law Clerk
Legal Assistant
Mediator
Paralegal

Legal Services

Attorney \$54-135K
Correctional Officer \$23-28K
Fire Fighter \$22-51K
Paralegal \$25-42K
Paramedic \$18-34K
Patrol Officer \$22-43K

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Architecture and Construction

Industrial & Engineering Technology

CAREER PATHWAYS...

- Design and Pre-Construction
- Construction
- Maintenance and Operations

OCCUPATIONS



Architect
Civil Engineering Technician
Computer-Aided Drafter
Cost Estimator
Landscape Architect
Mechanical Engineer
Surveyor

Brick Mason
Carpenter
Construction Laborer
Construction Manager
Electrician
Glazier
Heating, Air Conditioning and Refrigeration Mechanic or Installer
Manager of Construction Trades and Extraction Workers
Millwright
Painter
Paper Hanger
Pipefitter
Plumber
Roofer
Welder

Brick Mason
Carpenter
Construction Laborer
Construction Manager
Electrical and Electronics Repairer
Electrician
Glazier
Heating, Air Conditioning and Refrigeration Mechanic or Installer
Highway Worker
Manager of Construction Trades and Extraction Workers
Millwright
Operating Engineer
Painter
Paper Hanger
Pipefitter
Plumber
Welder

Architect \$43-81K
Carpenter \$24-50K
Construction Manager \$39-78K
Cost Estimator \$34-64K
HVAC Installer / Repairer \$23-45K
Plumber \$29-60K

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www.missourieconomy.org

Design and Pre-Construction

Construction

Maintenance and Operations

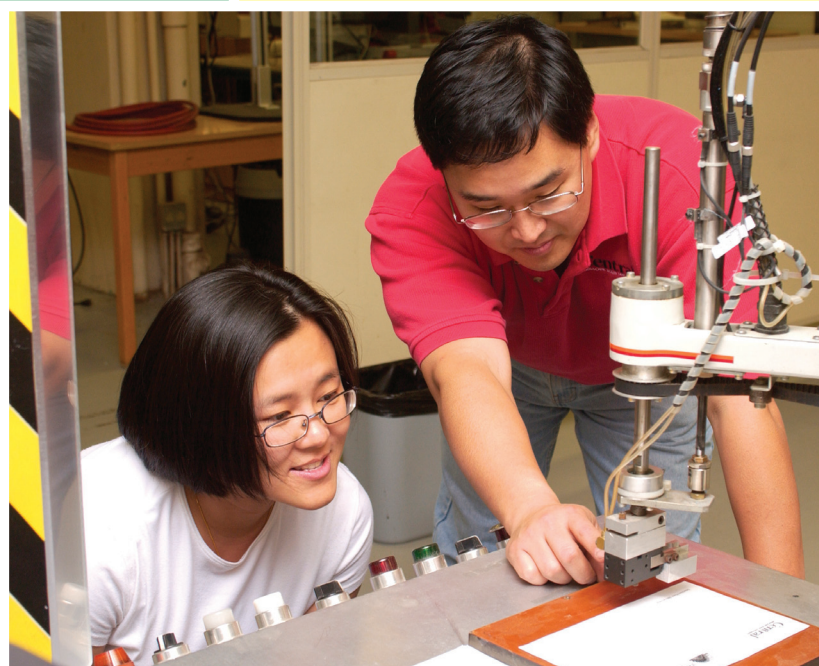
Manufacturing

Industrial & Engineering Technology

CAREER PATHWAYS

- Manufacturing Production Process Development
- Maintenance, Installation and Repair
- Logistics and Inventory Control
- Health, Safety and Environmental Assurance
- Quality Assurance
- Production

OCCUPATIONS



Design Engineer
Electronics Engineer
Engineering Technician
Labor Relations Manager
Precision Inspector
Purchasing Agent
Supervisor

**Manufacturing
Production Process
Development**

Boilermaker
Computer Installer or
Repairer
Electric Motor Repairer
Industrial Facilities Manager
Instrument Calibration
and Repairer
Laser System Technician
Major Appliance Repairer
Plumber
Power Tool Repairer

**Maintenance,
Installation and
Repair**

Dispatcher
Freight, Stock and
Material Mover
Logistician
Material Handler
Quality Control Technician
Traffic, Shipping and
Receiving Clerk

**Logistics and
Inventory Control**

Freight or Stock Mover \$15-27K
Industrial Production Manager . \$47-86K
Laser System Technician \$22-40K
Machinist \$23-39K
Safety Engineer \$39-68K
Welder \$21-34K

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and job outlook in Missouri visit:
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Environmental Specialist
Occupational Health and
Safety Specialist
Operations Research
Analyst
Safety Engineer

**Health, Safety
and Environmental
Assurance**

Calibration Technician
Inspector
Lab Technician
Process Control Technician
Quality Control Technician

Quality Assurance

Assembler
Industrial Production
Manager
Machine Operator
Machinist
Manager or Supervisor
Model Maker
Tool and Die Maker
Welder

Production

Science, Technology, Engineering and Mathematics

Industrial &
Engineering
Technology

CAREER PATHWAYS...

- Engineering and Technology
- Science and Math

OCCUPATIONS.....



Chemical Engineer
Civil Engineer
Electrical Engineer
Engineering Manager
Environmental Engineer
Hazardous Waste Technician
Industrial Engineer
Mining Engineer
Nuclear Engineer
Power Systems Engineer
Quality Technician

Atmospheric Scientist
CAD Operator
Chemist
Demographer
Economist
Environmental Scientist
Geologist
Lab Technician
Math Teacher
Research Technician
Science Teacher
Technical Writer
Zoologist

Chemist \$36-69K
Electrical Engineer \$48-79K
Engineering Manager \$70-107K
Hazardous Waste Technician ... \$27-49K
Lab Technician \$19-35K
Technical Writer \$36-62K

For more information about salaries
and job outlook in Missouri visit:
www.missourieconomy.org

**Engineering and
Technology**

**Science and
Mathematics**

Transportation, Distribution and Logistics

Industrial & Engineering Technology

CAREER PATHWAYS

- Transportation Systems and Infrastructure
- Logistics, Planning and Management Services
- Warehousing and Distribution Center Operations
- Facility and Mobile Equipment Maintenance
- Health, Safety and Environmental Management
- Transportation Operations
- Sales and Service

OCCUPATIONS



Air Traffic Controller
Civil Engineer
Motor Vehicle Inspector
Regional Planner
Regulator
Surveying and Mapping Technician
Urban Planner

Transportation Systems and Infrastructure

International Logistics
Logistician
Logistics Analyst
Logistics Engineer

Logistics, Planning and Management Services

Industrial and Packing Engineer
Laborer
Material Mover
Shipping, Receiving and Traffic Clerk
Stock Clerk
Warehouse Manager

Warehousing and Distribution Center Operations

Air Traffic Controller \$66-111K
Auto Body Repairer \$22-45K
Auto Service Technician \$20-41K
Cargo & Freight Agent \$27-45K
Pilot \$35-67K
Truck Driver \$24-43K

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Aircraft Mechanic
Automobile Service Technician
Auto Mechanic
Automotive Body Repairer
Bus and Truck Mechanic
Diesel Engine Mechanic
Electrical and Electronics Repairer
Mobile Heavy Equipment Mechanic

Facility and Mobile Equipment Maintenance

Industrial Health and Safety Engineer
Environmental Compliance Inspector
Environmental Science and Protection Technician
Safety Analyst

Health, Safety and Environmental Management

Delivery Truck Driver
Flight Engineer
Pilot
Transportation, Storage and Distribution Manager
Tractor-Trailer Truck Driver

Transportation Operations

Cargo and Freight Agent
Cashier
Counter or Rental Clerk
Customer Order Clerk
Sales Manager
Sales Representative

Sales and Service

Health Science

Health
Services

CAREER PATHWAYS...

- Biotechnology Research and Development
- Therapeutic Services
- Diagnostics Services
- Health Informatics
- Support Services

OCCUPATIONS



Anesthesiologist
Athletic Trainer
Certified Nurse Assistant
Dental Assistant
Dental Hygienist
Dental Laboratory Technician
Dentist
Dietary Technician
Dietitian or Nutritionist
Home Health Aide
Licensed Practical Nurse
Nurse Aide
Occupational Therapist
Optometrist
Paramedic
Pharmacist
Pharmacy Assistant
Pharmacy Technician
Physical Therapist
Physical Therapy Assistant

Physician Assistant
Physician (Family and General Practice)
Radiation Therapist
Radiologic Technologist
Recreational Therapist
Registered Nurse
Rehabilitation Counselor
Respiratory Therapist
Speech-Language Pathologist
Surgeon
Surgical Technician

Clinical Trials Research Coordinator
Geneticist
Lab Technician
Medical Lab Technologist
Medical Scientists
Microbiologist
Research Assistant
Toxicologist

Cardiology Technologist
Diagnostic Medical Sonographer
Nuclear Medicine Technologist
Radiologic Technologist

**Biotechnology
Research and
Development**

**Diagnostics
Services**

Health Care Administrator
Health Educator
Health Information Technician / Administrator
Medical and Health Services Manager
Medical Social Worker
Public Health Social Worker
Medical Transcriptionist
Medical Coder

Biomedical / Clinical Engineer
Environmental Services
Facilities Manager
Food Service
Hospital Maintenance Engineer
Industrial Hygienist
Medical Equipment Repairer

Therapeutic Services

Health Informatics

Support Services

Cardiology Technologist \$22-42K
Family Practice Physician \$92-182K
Pharmacist \$73-95K
Registered Nurse \$37-57K
Sonographer \$42-61K
Medical Transcriptionist \$30-39K

For more information about salaries
and job outlook in Missouri visit:
www.missourieconomy.org

Arts, Audio-Visual Technology and Communications

Arts & Communication

CAREER PATHWAYS

- Audio and Video Technology and Film
- Journalism and Broadcasting
- Printing Technology
- Telecommunications
- Performing Arts
- Visual Arts

OCCUPATIONS



Animator
Audio Technician
Audio-Visual Systems Technician
Computer Artist
Sound Engineering Technician
Video Technician

Audio and Video Technology and Film

Broadcast News Analyst
Editor
Radio Announcer
Reporter
Station Manager
Writer

Journalism and Broadcasting

Desktop Publishing Specialist
Prepress Technician
Press Operator
Print Maker

Printing Technology

Art Director \$36-71K
Graphic Designer \$24-47K
Multimedia Artist / Animator ... \$32-83K
Press Operator \$19-36K
Telecommunications Repairer .. \$33-53K
Writer \$22-48K

For more information about salaries and job outlook in Missouri visit:
www.missourieconomy.org

Central Office Installer
Electronic Home Entertainment Equipment Installer and Repairer
Network Technician
Telecommunications Specialist

Telecommunications

Actor / Actress
Agent or Business Manager of Artists, Performers and Athletes
Choreographer
Composer
Director
Musician
Producer
Professional Athlete
Singer

Performing Arts

Art Director
Artist
Cartoonist
Commercial Photographer
Fashion Artist
Fashion Designer
Floral Designer / Florist
Graphic Designer
Illustrator
Interior Designer
Painter
Sculptor

Visual Arts

Business Management and Administration

Business,
Management
& Technology

CAREER PATHWAYS

- General Management
- Business Information Management
- Human Resources Management
- Administrative Support
- Operations Management

OCCUPATIONS



Compensation, Benefits and
Job Analysis Specialist
Corporate Trainer
Human Resources Manager
OSHA/ADA Compliance
Officer
Personnel Recruiter

**Human Resources
Management**

Administrative Assistant
Communications
Equipment Operator
Data Entry Specialist
Office Manager
Receptionist
Stenographer

**Administrative
Support**

Buyer / Planner
Facilities Manager
Inventory Manager
Procurement Officer
Quality Control Technician
Supply Chain Manager

**Operations
Management**

Budget Analyst
Business Consultant
Business Operations
Specialist
Price Analyst
Product Manager

**Business
Information
Management**

Administrative Services
Manager
Chief Executive Officer
Entrepreneur
General Manager
Management Analyst

General Management

Administrative Assistant \$26-42K
Auditor \$33-67K
Chief Executive Officer \$65-165K
Human Resources Manager .. \$37-110K
Management Analyst \$42-80K
Sales Manager \$55-128K

For more information about salaries
and job outlook in Missouri visit:
www.missourieconomy.org

Finance

Business,
Management
& Technology

CAREER PATHWAYS

- Accounting
- Securities and Investments
- Business Finance
- Banking Services
- Insurance

OCCUPATIONS



Accountant
Auditor
Bookkeeping, Accounting
and Auditing Clerk
Financial Manager

Accounting

Investment Advisor
Personal Financial Advisor
Securities, Commodities
and Financial Services
Sales Agents
Tax Preparation

Securities and Investments

Controller
Economist
Financial Analyst
Financial Examiner

Business Finance

Accountant \$33-67K
Actuary \$60-120K
Credit Analyst \$29-58K
Debt Counselor \$25-56K
Loan Officer \$29-67K
Tax Preparation \$18-33K

For more information about salaries
and job outlook in Missouri visit:
www.missourieconomy.org

Bill and Account Collector
Credit Analyst
Debt Counselor
Loan Officer
Operations Manager
Teller

Banking Services

Actuary
Adjuster
Examiner
Insurance Appraiser
Underwriter

Insurance

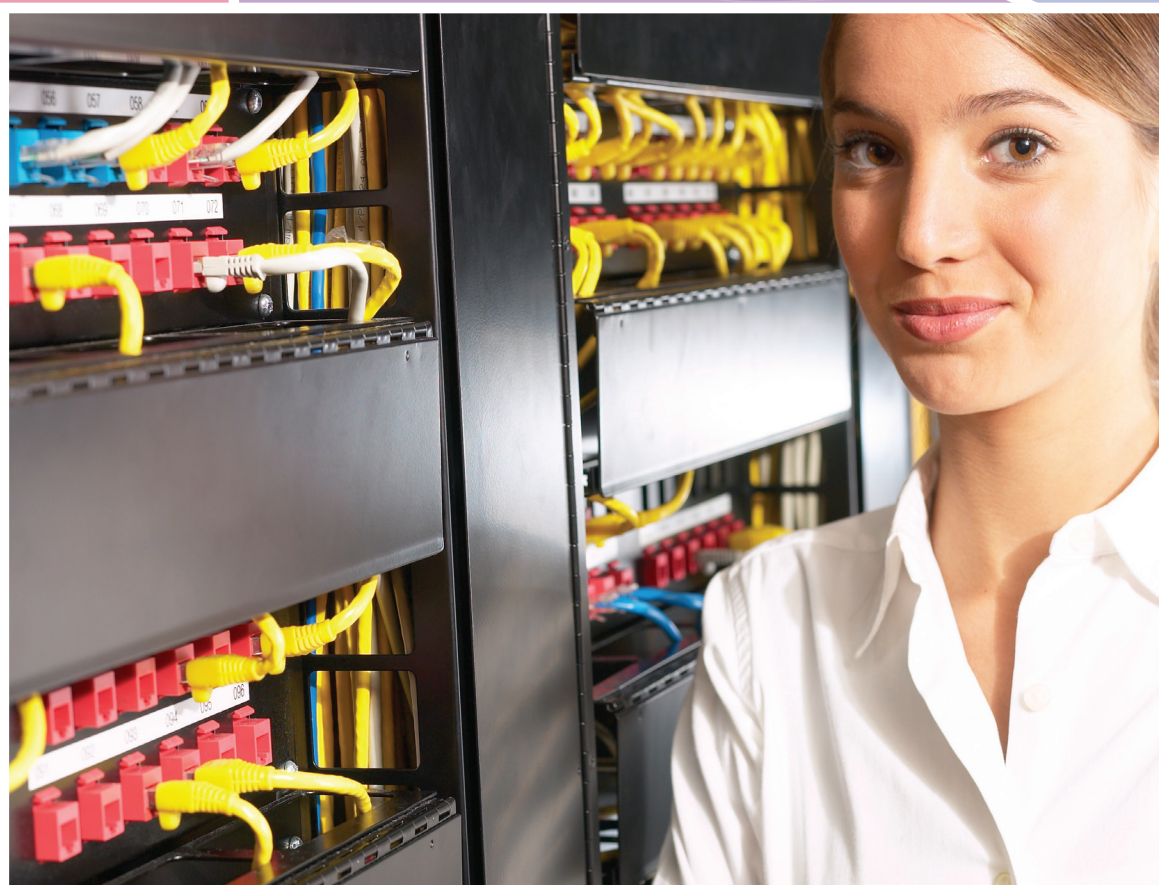
Information Technology

Business,
Management
& Technology

CAREER PATHWAYS

- Programming and Software Development
- Information Support and Services
- Web and Digital Communications
- Network Systems

OCCUPATIONS



Computer Programmer
Computer Software Engineer
Computer Systems Analyst
Data Modeler
Game Programmer
Tester

**Programming
and Software
Development**

Computer and Information Systems Manager
Computer Support Specialist
Customer Liaison
Database Administrator
Help Desk Specialist
Information Systems Architect
Technical Writer

**Information Support
and Services**

Data Communications Analyst
Information Systems Operator
Information Technology Engineer
Network Architect
Network Systems Analyst
PC Support Specialist
Telecommunications Network Technician

Network Systems

3-D Animator
Audio/Visual Engineer
Streaming Media Specialist
Virtual Reality Specialist
Web Designer
Webmaster

**Web and Digital
Communications**

3-D Animator \$32-83K
Database Administrator \$35-70K
Information Systems Architect \$65-110K
Software Engineer \$47-88K
Software Tester \$63-110K
Web Designer \$24-47K

For more information about salaries
and job outlook in Missouri visit:
www.missourieconomy.org

Marketing

Business,
Management
& Technology

CAREER PATHWAYS

- Marketing Management
- Marketing Communications
- Marketing Research
- Professional Sales
- Merchandising

OCCUPATIONS



Brand Manager
Customer Service Representative
Interviewer
Market Research Analyst
Product Planner

Marketing Research

Advertising / Marketing Manager
Media Buyer
Public Information Director
Public Relations Specialist
Research Assistant
Research Specialist

Marketing Communications

Chief Executive Officer
Distributor
Entrepreneur
Franchisee
Proprietor
Small Business Owner

Marketing Management

Field Representative
Real Estate Sales Agent
Sales Engineer
Sales Manager
Sales Representative
Territory Representative

Professional Sales

Merchandise Buyer
Purchasing Agent
Purchasing Manager
Retail Marketing Coordinator

Merchandising

Entrepreneur \$20-70K
Marketing Manager \$55-108K
Public Relations Specialist \$26-55K
Purchasing Agent \$30-60K
Retail Sales Manager \$23-49K
Web Systems Manager \$70-130K

For more information about salaries
and job outlook in Missouri visit:
www.missourieconomy.org

Start with the End in Mind

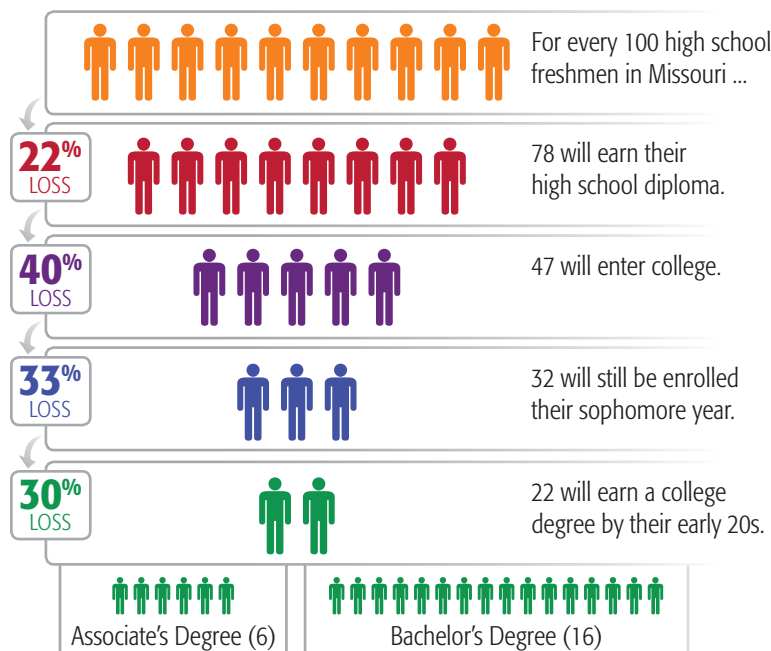


Life, it's all about you:
Your personality,
your needs, your abilities,
your relationships and
your interests.

So how do you
land the dream job
that matches you?

WHAT ARE YOUR OPTIONS AFTER HIGH SCHOOL?

The Thinning Crowd



DECREASING PYRAMID OF EDUCATIONAL ACHIEVEMENT.

Currently in Missouri, only 2 in 10 ninth-grade students will go on to complete a college degree by their early 20s (within 150% time for their degree). Income trends show that education beyond high school is needed to earn a family-supporting wage. For you and your families, this highlights the great importance of the student, family and teachers working as a team.

You should plan to take advantage of opportunities such as Missouri's A+ High Schools Program, which offers free tuition to a one- or two-year postsecondary program for qualified graduates of participating schools.

The Missouri Department of Higher Education offers a wide range of resources on its website, dhe.mo.gov. These resources aren't just for students going on to college, though; the website offers advice and financial aid information, and also catalogs many one- and two-year programs, apprenticeships and other programs.

Sources: National Center for Higher Education Management Systems (2008)

Before you
can connect the
dots, you have to know ...

what the dots are. The first one is you. Take the time for an interest survey. What do you like? What are you good at? Write down your feelings about different jobs. You might be surprised what you learn about yourself.

The next dot is education and training. The fact is, the number of jobs that require only a high school diploma and pay a family-supporting wage shrinks every year. An increasing number of jobs require a four-year degree, but there are also good opportunities in most of the Career Clusters for those who learn technical skills through community colleges and apprenticeships.

Area career centers across Missouri offer many programs to establish an outstanding foundation in your Career Cluster of interest, regardless of your educational plans after high school. Regardless of how much education and

training you want after high school, many entry-level jobs require about the same skill levels in English, math and science as four-year colleges.

Within any Career Cluster, there are several options after high school, including a four-year college, community college, apprenticeships, the military and on-the-job training. Follow this model for your career: explore, plan, prepare.

By making plans now;
exploring your career options
through after-school
activities, job shadowing
and the Internet; and
connecting your high school
education with a career and
further training, you get on
a path to success.

Prep Your Personal Plan of Study

This form is intended to be used before you create or revise your Personal Plan of Study. It does not replace your local school's Personal Plan of Study documents.

My Dream Job!

What would be your personal dream job? What kind of preparation (college, community college, apprenticeship, professional organization, certification, workshop, etc.) would you need to land the job? If you were to look in your community for a similar job, what company could you contact for information or to job shadow?

The job:

Preparation:

Job outlook:

Average salary:

Job shadow sites:

My Hobbies, Interests and Activities

What are your personal hobbies and interests? What do you like to do at school or away from school? What clubs or activities do you participate in at school? What kinds of activities appeal to you?

My Most Valuable Skills

My Responsibilities (home, chores, work and school)

Career Clusters or Career Path of Interest

Complete the Career Clusters Interest Survey on pages 3 and 4. Career interest surveys are also available at www.missouriconnections.org

My Life and Career Goals

Work Experiences and Community Service

List your work experiences and community activities. Also, list community activities or jobs in your community that really interest you. What needs do you see in your community? How could you help meet these needs?

The School Project I'm Most Proud of Is ...

College or Training Program of Interest

Identify at least one college or training program that connects with your personal career interests and goals. Indicate where the college or program is located and list the entrance requirements for this college or program.

Missouri Connections Website

MissouriConnections.org Free interest assessments and more.

User ID:

Password:

High School Graduation Requirements

- 4 units

Communication Arts
- 3 units

Social Studies
- 3 units

Mathematics
- 3 units

Science
- 1 unit ea.

Fine Arts, Practical Arts, Physical Education
- 1/2 unit

Health Education
- 1/2 unit

Personal Finance

Local requirements:

Career Path or Career Cluster Related Electives

Getting Ready ...

☐ Entrance exams

- ☐ Portfolio of career-related school work
- ☐ List of references with contact information
- ☐ Job shadowing experiences
- ☐ Internships or work related to your career of interest
- ☐ Student organizations and clubs related to your career interest
- ☐ Letters of recommendation
- ☐ Transcript and record of GPA and attendance
- ☐ Certifications (career readiness, etc.)
- ☐ Resumé

6 Things You Should Know About Career Planning in High School

1. Senior Year Math

Many educational experts, including the Southern Regional Education Board, recommend that all high school seniors take a math course. Maintaining math skills requires practice, and the best way to get that practice is to continue taking math courses.

2. Remedial Coursework

More than a third of students continuing to the university or a community college in Missouri must take remedial courses. Why pay for remedial classes that do not earn college credit? The best ways to avoid remediation are to enroll in rigorous high school courses and take entrance exams as early as possible, even as a junior or at the end of the sophomore year.

3. A+ High School Program

Many of Missouri's high schools take part in the A+ High School program. Under this program, qualifying students can receive two years' tuition at a Missouri public community college or technical school. Check with your school for information.

4. Earning College Credit

There are many ways for students to earn college credit while in high school. Whether through AP courses, dual credit courses or articulated credit for career education, many high schools offer multiple opportunities for students to earn college credit. Some students graduate with a full semester of college credit or more.

5. Access Missouri

Access Missouri is a statewide scholarship program for students from low-income families. The scholarship program is available at most Missouri postsecondary schools and is transferable from one school to another. For more information, visit the Department of Higher Education website at dhe.mo.gov.

6. Start Early

Missouri public schools encourage students to start planning early. All Missouri eighth-grade students must complete a Personal Plan of Study. An annual Personal Plan of Study review is a great opportunity to make sure your child's course planning matches their career plans.



Making Plans and Meeting Goals

As a parent, one of the most important things you can do for your child is to help them on the road to a successful, fulfilling career.

This road can begin as early as your child is comfortable, and should see your involvement at least by the eighth grade.

Not only can you help your child by providing the example of your own career development, you can also help by working to ensure that your child's high school education equips your child for the future and the workplace.

Talk to your child, the teachers and the counselors at the school and find out what happens inside and outside the classroom to help build the skills of the 21st century. When you talk to your child and school staff, there are three key elements to keep in mind: rigor, relevance and relationships.

Rigor

Rigorous studies are integral to a quality education and preparation for the 21st century workplace. Rigorous studies does not necessarily mean taking the highest level academic coursework available. Rigorous classes challenge students, whatever the topic, and they engage students in application of what has been learned.

Relevant

Students want to know how they will use what they are learning. And for good reason. It can help them later in life. Classes that apply academics and course material to real-life situations are more exciting and help students retain what they have learned even longer.

Relationships

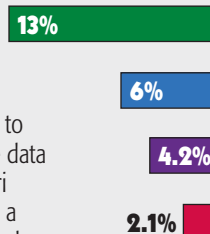
Your child craves relationships, and employers prize skills in communication, teamwork and leadership. Find out how your child can build their skills.

Education Pays

THE ROAD TO RICHES IS PAVED BY EDUCATION —

The more education you have, the more money you are likely to make and the less likely you are to be unemployed, or so the data suggest. In 2008, Missouri workers age 25 to 64 with a high school diploma earned an average of \$25,909 per year, while those with a bachelor's degree earned an average of \$42,178 per year. Unemployment was more than twice as high for Missourians who did not complete high school than for those with a high school diploma or GED® credential.

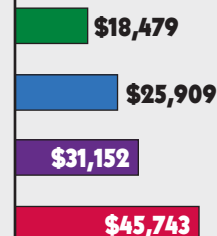
Unemployment Rates, 2008



Educational Attainment

Less than high school graduate
High school graduate or GED
Some college or Associate Degree
Bachelor's Degree or higher

Median Earnings in the Last 12 Months



Source: U.S. Census Bureau, American Community Survey (2008)
Note: Earnings represented in 2008 inflation-adjusted dollars