

CW

Career Watch ARKANSAS

2009-2010

Transportation, Distribution, & Logistics

OCCUPATIONS

RESUMES

INTERVIEWS

COLLEGES

FINANCIAL AID

SCHOLARSHIPS

Jobs for People. People for Jobs.
DWS
Department of
WORKFORCE Services
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Dear Students:

Time passes quickly, and soon, you will graduate from high school. Graduation is a time for celebration, but it is also a time for contemplating the future and for making critical decisions that may affect the rest of your lives. You must decide about furthering your schooling or choosing a satisfying career. I urge you to do something great with your life, to achieve your own definition of success, and to seize opportunity when it comes your way.

I've never been more excited about the State's transportation industry than I am right now, and I encourage each of you to consider pursuing a career in the rewarding field of transportation or transportation-related occupations. Career specialties in this high-growth arena offer high-tech, high-wage work opportunities. From truck drivers and flight attendants to boat captains and commercial airline pilots to automotive technicians and locomotive engineers, there are thousands of challenging careers to choose from within the highly skilled world of transportation, distribution, and logistics. If you want to be one of those who drives or pilots the vehicles that transport people and freight or one of those who works to ensure the safety, maintenance, and repair of vehicles and transportation facilities, or a host of pathway options offered in professional and technical occupations, join the millions who already find this a rich and rewarding professional career path.

Living up to your potential requires an enormous amount of energy, determination, patience, and sacrifice. In choosing your future occupation, seek the advice of guidance counselors and professionals you trust, and remember that the Arkansas Department of Workforce Services is ready and willing to lend their expertise. I want you to be excited about the possibilities you face. Your ideas, your efforts, and decisions will collectively shape our tomorrow. Best wishes for a successful future.

Sincerely,

A handwritten signature in black ink, appearing to read 'Mike Beebe', written in a cursive style.

Mike Beebe

MB:jb



2009-2010

Career Watch Arkansas

Transportation, Distribution & Logistics

12

The planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

Find out what Transportation, Distribution & Logistics occupations are in demand and how much they pay.

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Take a closer look at some occupations in Transportation, Distribution & Logistics.

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What are the Transportation, Logistics & Distribution education programs?

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Looking for your Career Path?



ARKOSCAR *Can Help*

ARKOSCAR is an Internet-based system that allows you to explore your career options by answering simple questions about your interest and skills. Discover your options!

www.arkoscar.org

Do your dreams match your career goals?

Real-Life Arkansas gives you three ways to find out! Visit the state's newest online career resource, the Lifestyle Budget Calculator, at

www.real-life.arkansas.gov

Option #1:

The whole nine yards

Pick your city, then decide what you want to spend on housing, transportation, food, entertainment, and everything in between. We'll tell you what jobs will feed your appetite and how to get them.

Option #2:

Show me the money

Tell us what you want your yearly salary to be, and we'll tell you which jobs will pay that much. We'll even tell you what sort of education and training you need to get there and how the job market is.

Option #3:

The bizarro budget

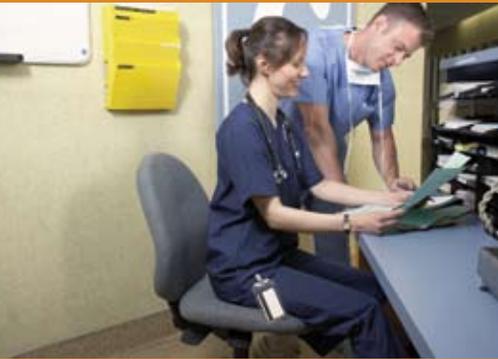
If you're lucky enough to already know what you want to do with your life, we'll tell you how much it will pay so you can work backward to create a budget using those numbers.

It's your life...do the math!



What's Hot

Top 20 Occupations for Growth



Registered Nurses
Customer Service Representatives
Combined Food Preparation and Serving Workers, Including Fast Food
Truck Drivers, Heavy and Tractor-Trailer
Nursing Aides, Orderlies, and Attendants
Retail Salespersons
Waiters and Waitresses
Office Clerks, General
Child Care Workers
Sales Representatives, Wholesale and Manufacturing, Except Technical
and Scientific Products
Elementary School Teachers, Except Special Education
Bookkeeping, Accounting, and Auditing Clerks
Janitors and Cleaners, Except Maids and Housekeeping Cleaners
Correctional Officers and Jailers
Maids and Housekeeping Cleaners
Personal and Home Care Aides
Construction Laborers
Home Health Aides
Cooks, Fast Food
Pharmacy Technicians



What's Not

Top 20 Occupations for Decline

Team Assemblers
Meat, Poultry, and Fish Cutters and Trimmers
Helpers--Production Workers
Laborers and Freight, Stock, and Material Movers, Hand
Stock Clerks and Order Fillers
Cutting, Punching, and Press Machine Setters, Operators, and Tenders,
Metal and Plastic
Industrial Truck and Tractor Operators
Packers and Packagers, Hand
Machine Feeders and Offbearers
Inspectors, Testers, Sorters, Samplers, and Weighers
Molding, Coremaking, and Casting Machine Setters, Operators, and
Tenders, Metal and Plastic
Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders
First-Line Supervisors/Managers of Production and Operating Workers
Slaughterers and Meat Packers
Electrical and Electronic Equipment Assemblers
File Clerks
Cabinetmakers and Bench Carpenters
Coil Winders, Tapers, and Finishers
Coating, Painting, and Spraying Machine Setters, Operators, and Tenders
Cleaners of Vehicles and Equipment

School? Work? Both?

Top 10 Occupations by Education Level

Different occupations need different types of training. Some require only on-the-job training, while others require an advanced degree. The jobs listed below are projected to be the largest growing occupations by education level through 2010.

Work Experience or On-The-Job Training

Cashiers
Retail Salespersons
Waiters and Waitresses
Truck Drivers, Heavy and Tractor-Trailer
Laborers and Freight, Stock, and Material Movers, Hand
Customer Service Representatives
Combined Food Preparation and Serving Workers, Including Fast Food
Farmers and Ranchers
Office Clerks, General
Child Care Workers



Associate Degree or Vocational Training

Registered Nurses
Nursing Aides, Orderlies, and Attendants
Licensed Practical and Licensed Vocational Nurses
Computer Support Specialists
Welders, Cutters, Solderers, and Brazers
Automotive Service Technicians and Mechanics
Preschool Teachers, Except Special Education
Hairdressers, Hairstylists, and Cosmetologists
Bus and Truck Mechanics and Diesel Engine Specialists
Library Technicians



Bachelor's Degree or Higher

Elementary School Teachers, Except Special Education
Secondary School Teachers, Except Special and Vocational Education
General and Operations Managers
Middle School Teachers, Except Special and Vocational Education
Accountants and Auditors
Computer Systems Analysts
Network Systems and Data Communications Analysts
Pharmacists
Management Analysts
Insurance Sales Agents





The **R**oad to College

8th & 9th

Start thinking about career possibilities and exploring occupations that meet your interests and skills.

Study hard and earn good grades to prepare academically for college.

Discuss with your parents how to begin saving money for your college education.

Become involved in extracurricular activities that interest you.

Look for summer jobs or volunteer work that will expand your experience and skills.

10th

Research possible colleges and universities that match your career goals.

Prepare for standardized testing by taking the PSAT.

Visit with your school guidance counselor to discuss your course selection to make sure it meets college entrance requirements.

11th

Visit with your school guidance counselor about possible career paths.

Request information from colleges you are interested in attending. Find out admission requirements, degrees and majors offered, financial aid, scholarships, and student housing.

Plan a campus visit, and attend local college fairs.

Take the SAT or ACT.

12th

Apply to your top college choices; keep track of the admissions deadlines.

Retake the SAT or ACT if you are not happy with your score.

Complete the Free Application for Federal Student Aid to qualify for financial aid, scholarships, and grants after January 1 of your senior year.

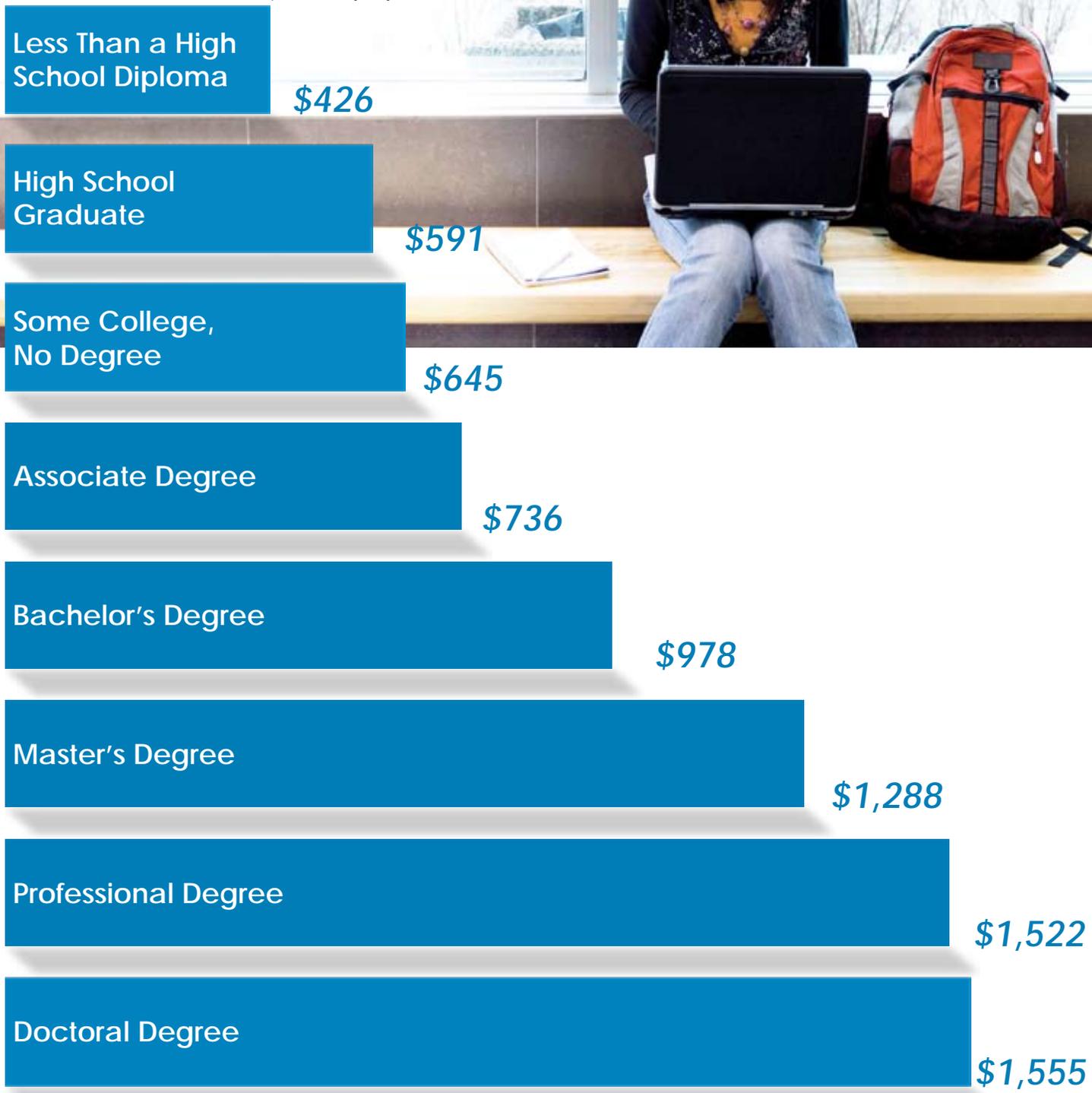
Attend spring or summer orientation programs for incoming college freshman.

Education Pays

Continuing your education after high school pays off. College graduates over the age of 25 with a bachelor's degree earn nearly twice as much as a high school graduate.

National Weekly Median Earnings for persons age 25 and over in 2008 dollars

Source: Bureau of Labor Statistics, Current Population Survey, May 2009



Does your Resume Rock?

There's no telling just how many resumes an employer might get in a day for a job. It's the first impression you make to a prospective employer, and it only takes 10 to 15 seconds to determine if you will be called for an interview. So...

What does it take to write a great resume?

Do your homework.

Make a list of your education, skills, qualifications, work experience, and extracurricular activities before writing your resume.

Building your resume.

Place your name, full mailing address, phone numbers, and e-mail address in a block format at the top of the page.

The type of resume you use depends upon your past experiences. If you are still in school or about to graduate, place your education with relevant class work in reverse chronological order. If you have more work experience, list it first, using action verbs to describe your contribution to the success of the company or organization.

Have things covered.

Always include a cover letter with your resume. The impact of a cover letter is a lot like that of a resume – a good one can get you in the door, and a bad one can get you to the bottom of the stack. So use it to make yourself stand out, and don't just rehash your resume. Tell the employer what makes you better suited for the job than your competition and how your skills can help the company succeed.

Quick Tips

Keep the resume to one page.

Proofread and proofread again. Ask several people to proofread your resume and cover letter. Did you proofread?

Do not include personal information such as age, gender, marital status, race, height and weight.

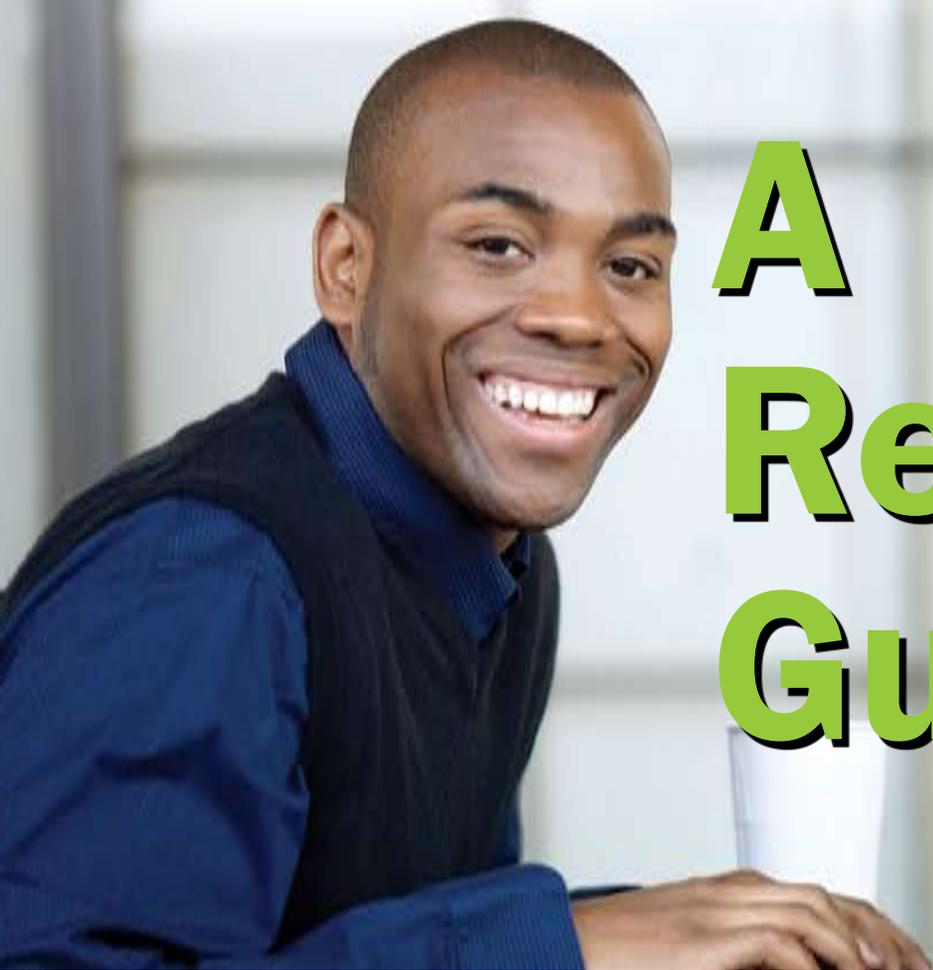
Use a professional e-mail; `cutechick_03@yahoo.com` won't cut it. Create a new account just for this purpose if you need to.

No fancy fonts. Use a sans serif font such as Times, Arial, or Helvetica in 10 or 12 points, and don't use scripts or underlining. Use bold or italics if you need to highlight important items.

Use a good quality, heavy bond paper in white or off-white with matching 9 x 12 envelopes. Do not fold your resume and cover letter when mailing by snail mail.

Have a list of references ready, but make sure you have permission to use them.





A Resume Guide

- The Department of Workforce Services provides a Pocket Resume, available at www.discover.arkansas.gov.
- Click on “Employment” and scroll to the bottom of the page to download a printable PDF version.
- Just fill in the information for easy reference while filling out job applications.

Types of Resumes

Chronological

The most common type of resume, it illustrates progress you have made toward your career objective through employment history. Your most recent work and educational experiences are listed first, followed by the next most recent experience. It is best to use this type of resume if you have demonstrated experience within your desired career field.

Functional

This type groups your work experience and skills by skill area or job function. This type is good to use to minimize gaps in employment history, while showcasing the work experience that is most important to your career objective. A functional resume works best for first-time job seekers or those changing careers.

Combination

A combination of the chronological and functional resumes, this type presents the knowledge, skills, and abilities gained from work in reverse chronological order. This format is best if you have a varied employment history or wish to include volunteer or internship experience.

For more information and examples, go to www.careerinfonet.org and click on resumes and interviews.

The Interview

Your resume has caught the attention of a perspective employer and you have an interview. What's the next step? Here are a few tips to help you to ace the interview.

Dress Appropriately.

Wear clean, pressed, conservative clothes in neutral colors. Avoid loud make-up and jewelry.

Be Well Groomed.

Have nails and hair neat, clean, and trimmed. Don't overdo your favorite perfume or cologne.

Be On Time.

Know where you are going, allowing time for traffic and parking.

Arriving late to the interview says a great deal about you. Keep your cell phone charged and have the interviewer's number handy in case circumstances are beyond your control, but turn it off before the interview.

Be Professional.

Know the name, title, and the pronunciation of the interviewer's name. Give a firm handshake and maintain good eye contact. Don't talk too much about your personal life. You're there for a job interview, and don't bad-mouth former employers.

What to take with you

Social Security card

Driver's license

Extra resumes and references

Paper and pen



Questions?

Don't just let the interviewer ask all the questions. In fact, they expect you to ask some! Have questions prepared to learn more about the position and the company.

- How soon are you looking to fill this position?
- What is the typical career path for this job?
- What are some of the biggest challenges facing this position, this department, or this organization?
- Is travel involved with this position?
- What are the performance expectations for this job?
- How frequently is performance evaluated?
- What kind of training and/or professional development programs do you have?

They say everyone's good at something.

But nowadays certain skills will put you on the fast track to a great job.

Here's a quick rundown of the Top 10. And no, text messaging is not on the list.



Skills to Pay the Bills

Reading Comprehension

Understanding written sentences and paragraphs in work-related documents.

Active Listening

Giving full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times.

Critical Thinking

Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions, or approaches to problems.

Active Learning

Understanding the implications of new information for both current and future problem-solving and decision-making.

Speaking

Talking to others to convey information effectively.

Coordination

Adjusting actions in relation to others' actions.

Monitoring

Monitoring/assessing performance of yourself, other individuals, or organizations to make improvements or take corrective action.

Instructing

Teaching others how to do something.

Writing

Communicating effectively in writing as appropriate for the needs of the audience.

Learning Strategies

Selecting and using training/instructional methods and procedures appropriate for the situation when learning or teaching new things.



Transportation, Distribution & Logistics

Getting it there, getting it there on time

A career in Transportation, Distribution & Logistics (TDL) involves more than driving a truck, flying an airplane, or fixing an engine. It can also involve the planning, management, and technical support services needed to get people, materials, and products where they need to go and on time.

Transportation occupations include those that provide the transportation of goods between the point of origin and the point of consumption while distribution occupations manage the methods of distribution of those goods. Logistics occupations manage the flow of the goods from the point of origin to the point of consumption.

A few occupations in this career cluster include Airfield Operations Specialists, Logisticians, Shipping and Receiving Supervisors, and Diesel Engine Specialists.

This career cluster employs more than 200,000 people in Arkansas, with a large number employed as Truck Drivers, Heavy and Tractor-Trailer, which is typically one of the largest occupations in the state and across the nation. Employment in TDL occupations is expected to continue to grow at a steady rate over the next 10 years. Many of these occupations are high-tech, high-wage jobs that can provide career advancement.

Training and education for TDL occupations range from short-term on-the-job training to advanced degrees. Formal training for these occupations can be found at most Arkansas colleges, universities, or technical schools, with most offering certificates of proficiency and technical certificates.

Some of the training and education programs include auto body repair, aviation maintenance, civil engineering, materials and operations management, and truck driving. Occupations in this cluster could require special certification or licensing from the state or federal governments.

This career cluster also contains occupations that call for varied education and skill levels. These include Customer Service Representatives, Carpenters, Marketing Managers, and Environmental Engineers, to name a few.

TDL employers look for employees who can communicate effectively, manage their own time and the time of others, and with recent technological advances, have a strong background in computers, computer-related technology, math, and science.

These occupations keep our country moving on the road, in the air, by water, and by rail and can provide many exciting career options.



In Demand Occupations

In demand occupations are occupations found in an industry cluster that are projected to add a significant number of new jobs to our state's economy, are existing or emerging occupations being transformed by technology and innovation, or are vital to the overall health of the Arkansas and American economies.

	Mean Hourly/Annual Wage
Packers and Packers, Hand	\$10.25 / \$21,320
Tire Repairers and Changers	\$10.07 / \$20,940
Counter and Rental Clerks	\$10.03 / \$20,860
Truck Drivers, Heavy and Tractor-Trailer	\$18.22 / \$37,900
Laborers and Freight, Stock, and Material Movers, Hand	\$10.52 / \$21,870
Customer Service Representatives	\$13.61 / \$28,300
Truck Drivers, Light or Delivery Services	\$12.38 / \$25,740
Bus Drivers, School	\$10.39 / \$21,600
Shipping, Receiving, and Traffic Clerks	\$12.64 / \$26,300
Dispatchers, Except Police, Fire, and Ambulance	\$15.79 / \$32,850
Billing and Posting Clerks and Machine Operators	\$12.75 / \$26,520
Production, Planning, and Expediting Clerks	\$18.30 / \$38,060
Cargo and Freight Agents	\$19.07 / \$39,660
Automotive Body and Related Repairers	\$16.78 / \$34,910
Automotive Service Technicians and Mechanics	\$14.79 / \$30,760
Electricians	\$19.58 / \$40,720
Bus and Truck Mechanics and Diesel Engine Specialists	\$16.79 / \$34,920
Industrial Machinery Mechanics	\$20.16 / \$41,930
Carpenters	\$15.94 / \$33,150
Transportation, Storage, and Distribution Managers	\$36.31 / \$75,530
Avionics Technicians	\$18.30 / \$38,070
Administrative Services Managers	\$30.07 / \$62,540
Civil Engineers	\$33.16 / \$68,960
Sales Managers	\$48.50 / \$100,870
Industrial Engineers	\$31.03 / \$64,550
Marketing Managers	\$47.44 / \$98,670
Mobile Heavy Equipment Mechanics, Except Engines	\$17.45 / \$36,290
Chief Executives	\$61.30 / \$127,510

Occupational Employment Statistics Wage Survey/May 2008 Arkansas Average

I can be a...

These are just a few of the occupations in Transportation, Distribution & Logistics. To learn about other occupations, go to <http://online.onetcenter.org/find/> and browse by career cluster for occupations in this industry.



Automotive Body and Related Repairers

Repair and refinish automotive vehicle bodies and straighten vehicle frames.

Sample of reported job titles: Auto Body Technician, Auto Body Man, Auto Body Repairman, Automotive Painter, Auto Body Repair Technician, Body and Frame Man, Automotive Refinisher, Body and Frame Technician, Auto Body Painter

Entry Pay: \$12.12 per hour/\$25,210 annual

2010 Projected Employment: 1,392

Education: Long-Term On-the-Job Training

Civil Engineers

Perform engineering duties in planning, designing, and overseeing construction and maintenance of building structures, and facilities, such as roads, railroads, airports, bridges, harbors, channels, dams, irrigation projects, pipelines, power plants, water and sewage systems, and waste disposal units. Includes architectural, structural, traffic, ocean, and geo-technical engineers.

Sample of reported job titles: Civil Engineer, Engineer, Project Engineer, Project Manager, Structural Engineer, City Engineer, Civil Engineering Manager, Design Engineer, Railroad Design Consultant, Research Hydraulic Engineer

Entry Pay: \$22.52 per hour/\$46,840 annual

2010 Projected Employment: 1,839

Education: Bachelor's Degree





Shipping, Receiving, and Traffic Clerks

Verify and keep records on incoming and outgoing shipments. Prepare items for shipment. Duties include assembling, addressing, stamping, and shipping merchandise or material; receiving, unpacking, verifying and recording incoming merchandise or material; and arranging for the transportation of products.

Sample of reported job titles: Receiving Clerk, Receiver, Traffic Manager, Warehouseman, Receiving Manager, Shipper, Shipping Clerk, Shipping/Receiving Clerk, Logistics Coordinator, Material Handler

Entry Pay: \$9.08 per hour/\$18,890 annual

2010 Projected Employment: 5,544

Education: Short-Term On-the-Job Training

Aircraft Mechanics and Service Technicians

Diagnose, adjust, repair, or overhaul aircraft engines and assemblies, such as hydraulic and pneumatic systems.

Sample of reported job titles: Aircraft Mechanic, Aircraft Maintenance Technician, Aircraft Technician, Aircraft Maintenance Director, Aircraft Maintenance Supervisor, Aircraft Restorer, Aviation Maintenance Technician, Helicopter Mechanic

Entry Pay: \$14.98 per hour/\$31,150 annual

2010 Projected Employment: 672

Education: Postsecondary Vocational Training



Where Can I Find Training And Education?

Almost every university, college, and technical school in Arkansas offers training and education for a career in Transportation, Distribution & Logistics. Here's just a few of the programs:

Auto Body Repair
Automotive Diagnostics
Automotive Undercar Specialist
Aviation
Aviation Maintenance

Commercial Truck Driving
Damage Analysis and Estimation
Marine Repair Technology
Materials & Operation Management
Transportation Engineering

Check with your school career counselor to find out more about where these and other programs are offered.

Transportation, Distribution & Logistics

Career Pathways

In high school, career pathways are designed to give you the education and skills you need to be successful in any career.

Sixteen career clusters have been developed to help you explore your career opportunities. Within these career clusters are career pathways that are more specialized. These pathways will help you explore more specific careers. Plus, many of the classes can earn you college credit if you successfully pass the course.

The Transportation, Distribution & Logistics (TDL) pathways prepare learners for careers in the planning, management, and movement of people, materials, and goods by road, pipeline,

air, rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

The table on this page lists the classes for the five different pathways in TDL and what grade the classes are offered in the state's secondary schools. On the next page you will find the other career pathways that are offered across Arkansas.

Talk with your career guidance counselor to see what career pathways are offered in your school or a nearby postsecondary institution.

Facility and Mobile Equipment Maintenance Pathways

Program of Study (*Core Requirement)	Units of Credit	9th	10th	11th	12th
Automotive Collision Repair					
Nonstructural Analysis/Repair	1	•	•	•	•
Painting & Refinishing *	1	•	•	•	•
Structural Analysis/Damage Repair *	1		•	•	•
Automotive Service Technology					
Brakes *	1	•	•	•	•
Electrical Systems *	1	•	•	•	•
Engine Performance	1	•	•	•	•
Suspension & Steering	1	•	•	•	•
Aviation					
Aviation I *	2	•	•	•	•
Aviation II	2		•	•	•
Diesel Mechanics					
Diesel Mechanics I *	2	•	•	•	•
Diesel Mechanics II	2		•	•	•
Power Equipment Technology					
Power Equipment Technology I *	1	•	•	•	•
Power Equipment Technology II	2		•	•	•
Power Equipment Technology Lab	1	•	•	•	•

More Career Pathways

Agricultural Science and Technology

Cluster: AGRICULTURE, FOOD, & NATURAL RESOURCES

Agribusiness Systems

Power, Structural, & Technical Systems – Agri Mechanics

Animal Systems – Agricultural Science/Animal

Plant Systems – Agricultural Science/Plant

Plant Systems – Horticulture

Natural Resources/Environmental Service Systems

Business/Marketing Technology

Cluster: BUSINESS, MANAGEMENT & ADMINISTRATION

Administration & Information Support/Office Administration

Management – Business Administration/Management

Business Financial Management & Accounting – Finance

Cluster: FINANCE

Banking & Related Services – Banking

Business & Financial Management – Finance

Cluster: HOSPITALITY AND TOURISM

Travel & Tourism – Hospitality

Travel & Tourism – Lodging

Cluster: INFORMATION TECHNOLOGY

Interactive Media – Information Management/Desktop Publishing

Interactive Media – Information Management/Multimedia

Programming/Software Engineering – Information Management/Programming

Programming/Software Engineering – Oracle

Cluster: MARKETING, SALES, & SERVICE

Marketing Information Management & Research – Marketing Tech

Arts & A-V Technology

Cluster: ARTS, A-V TECHNOLOGY, & COMMUNICATIONS

Visual Arts – Advertising Design

Visual Arts – Career Communications

Visual Arts – Commercial Photography

Printing Technology – Career Communications

Printing Technology – Graphic Communications

Journalism & Broadcasting – Career Communications

Journalism & Broadcasting – Radio/TV Broadcasting

Audio-Video Technology & Film – Career Communications

Performing Arts – Career Communications

Family & Consumer Sciences Education

Cluster: EDUCATION AND TRAINING

Teaching & Training – Education & Training

Cluster: HOSPITALITY AND TOURISM

Restaurant & Food and Beverage Services – Culinary Arts

Restaurant & Food and Beverage Services – Food Production

Lodging – Lodging Management

Cluster: HUMAN SERVICES

Early Childhood Development & Services – Child Care

Personal Care Services – Cosmetology

Family & Community Services – Family & Consumer Sciences Education

Skilled and Technical Sciences

Cluster: ARCHITECTURE & CONSTRUCTION

Construction – Construction Technology

Construction – HVACR

Design/Pre-Construction – Drafting & Design Architectural/CAD

Design/Pre-Construction – Geospatial Technology

Cluster: GOVERNMENT & PUBLIC ADMINISTRATION

National Security – JROTC

Cluster: HEALTH SCIENCES

Therapeutic Services/Health Science Technology Education

Cluster: INFORMATION TECHNOLOGY

Network Systems – Computer Engineering

Cluster: LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY

Law Enforcement Services – Criminal Justice

Cluster: MANUFACTURING

Maintenance, Installation, & Repair – Industrial Equipment Maintenance

Maintenance, Installation, & Repair – Major Appliance Technology

Production – Advanced Manufacturing

Production – Furniture Manufacturing

Production – Machine Tool

Production – Welding

Cluster: SCIENCE, TECHNOLOGY, ENGINEERING, & MATHEMATICS

Engineering & Technology – Drafting & Design Engineering/CAD

Engineering & Technology – Electronics

Engineering & Technology – Pre-Engineering



How Can I Pay for College?

Financial Aid FAQs

If you are planning to attend college, you should do a little research first. Find out how much it will cost to go to college, what part of that cost you and your family will be expected to pay, and what types of financial aid are available. The following information is intended to get you started.

WHAT IS FINANCIAL AID?

Financial aid is money awarded to a student to help pay educational costs. Most financial aid is awarded according to individual need and educational costs. The federal government, the state government, postsecondary institutions, and private organizations provide financial aid to eligible students in the form of grants, scholarships, loans, and employment.

Grants and scholarships are awarded based on either financial need or merit and do not have to be paid back. Employment can be a job provided by the college and can be on or off campus. A loan is money provided by a bank, the college, or the government, which must be paid back with interest.

Private sources of financial aid come from social and civic organizations, religious organizations, and businesses.

HOW MUCH DOES IT COST TO ATTEND COLLEGE?

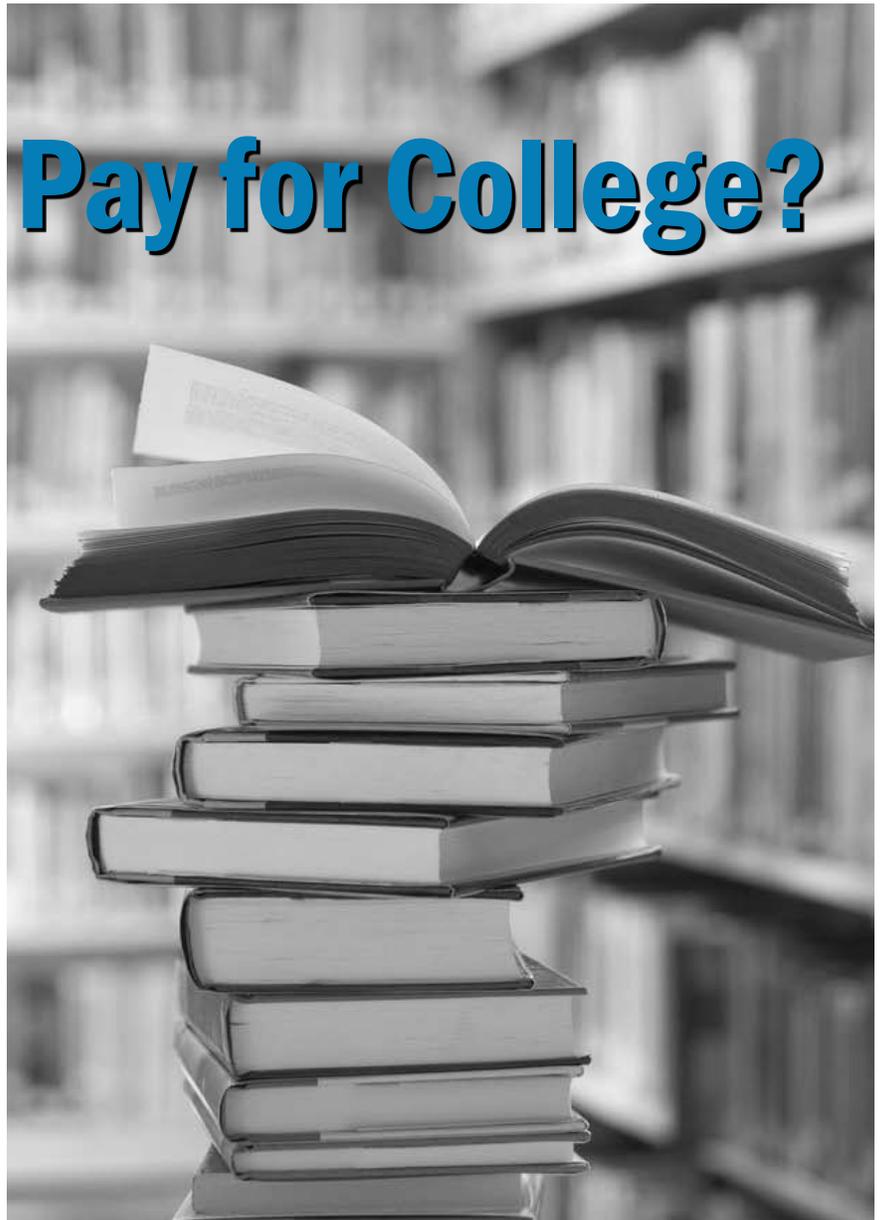
Educational costs can differ significantly from one school to another, depending on the type of school and your program of study. In general, costs are lowest at a public vocational-technical school, higher at a public community or technical college, still higher at a public four-year college, and highest at a private college.

The total cost of attending school today may range from \$2,000 per year to more than \$30,000 per year. Financial aid programs have been created to help you pay these costs. Schools with higher costs often have more financial aid; therefore, when comparing costs, it's very important to determine the financial aid available. This way you can determine what your out-of-pocket expenses will be.

But remember, cost is only one factor in selecting a school. Consider your goals, what programs and opportunities each school offers, and how well that school will help you meet your goals.

WHAT DO EDUCATIONAL COSTS INCLUDE?

The total educational costs are called the Cost of Attendance (COA) and include: (1) tuition and fees, (2) books and supplies, (3) room and board, (4) transportation, and (5) miscellaneous personal expenses, such as clothing, laundry, and recreation. Because the COA includes items that are living costs



but are not paid directly to the school, the actual amount billed by the school will be less than the COA.

WHAT IS THE FAMILY'S RESPONSIBILITY?

The primary responsibility for financing a college education rests with the student and his or her family. The family is expected to pay for the cost of college to the extent that it is able. Financial assistance is designed to help with the difference between what the family can afford and the cost of attendance. The student shares in the family's responsibility to pay for college and is expected to contribute from his earnings and savings. The amount the family is expected to pay toward the cost of college is called the Expected Family Contribution (EFC).

HOW IS THE FAMILY'S EXPECTED CONTRIBUTION DETERMINED?

Colleges, government agencies, and organizations that award financial aid based on financial need use a process called needs analysis to determine how much the family is expected to pay towards the cost of a college education. This process uses both the parent's and student's income and assets and other information about the family, such as the number in college, to calculate the Expected Family Contribution. During the needs analysis calculations, certain allowances are applied to protect the family's income and assets for the cost of living and future retirement needs.

The needs analysis is performed by the U.S.

Department of Education based on the information provided by the family on the Free Application for Federal Student Aid (FAFSA). This is the basic form required for most financial aid programs based on financial need. Any student who wishes to apply for financial assistance should complete and submit this application. FAFSAs can be obtained from high school guidance counselors, college financial aid offices, libraries, and other sources.

HOW IS ELIGIBILITY FOR FINANCIAL AID DETERMINED?

Most financial aid is awarded based on financial need. The Cost of Attendance minus the Expected Family Contribution equals financial need. The school you attend uses the EFC calculated during the needs analysis and the school's cost of attendance to determine your eligibility for need-based financial aid. Some aid is merit-based, meaning eligibility is based on performance or achievement, such as athletic scholarships or academic scholarships based on ACT/SAT scores or GPA.

HOW MUCH FINANCIAL AID CAN I RECEIVE?

The total financial aid a student receives can include funds from more than one source or financial aid program. Normally, though, the total financial aid received will not exceed the financial need, or in some cases, the cost of attendance. For the best chance of getting the aid you need, apply as early as possible for each financial aid program for which you might be eligible.

Source: Arkansas Department of Higher Education

Helpful Web sites:

www.adhe.edu

www.asla.info

www.careeronestop.org

www.careerwatch.org

www.college.gov

www.discover.arkansas.gov

www.fafsa.ed.gov

www.fundmyfuture.info

www.going2college.org

www.knowhow2go.org

mapping-your-future.org

www.slgfa.org

Scholarships, Grants, and Federal Aid

Arkansas Scholarships and Grants

On January 1, 2010, the Arkansas Department of Higher Education will provide students with an online universal application. Students will be able to apply for all ADHE-administered financial aid programs with one application.

This information is current as of June 2009 and is provided for informational purposes only. It is not intended to be a complete description of the programs and their requirements. For complete information about a particular program, go to www.adhe.edu and click on Financial Aid to review the program's rules and regulations. The eligibility requirements and rules governing the programs administered by the Arkansas Department of Higher Education are subject to legislative and regulatory amendments. Please e-mail the Financial Aid Division at finaid@adhe.edu if you should need further information.

Source: Arkansas Department of Higher Education

Academic Challenge Scholarship – with the passage of the Lottery Scholarship legislation, many changes will be coming to the Academic Challenge Scholarship, including money available to graduating high school seniors and non-traditional students. Please visit www.adhe.edu for details as they become available.

Arkansas Health Education Grant Program (ARHEG) – provides financial assistance to students seeking professional training in chiropractic medicine, dentistry, optometry, osteopathic medicine, podiatric medicine, and veterinary medicine to allow them to attend out-of-state institutions.

Governor's Scholars Program – for graduating high school seniors. Awards \$4,000 annually to the top applicant in each county based on academic achievement, test score, rank-in-class, and leadership. Those applicants scoring 32 on the ACT or 1410 on the SAT, and have earned a 3.50 academic grade point average, or are named National Merit or National Achievement Finalists Scholar are named Governor's Distinguished Scholars and receive tuition, mandatory fees, room and board up to \$10,000 per year.

Higher Education Opportunities Grant (GO! Opportunities Grant) – provides \$1,000 grants to full-time and \$500 grants to part-time students based on financial need. Students must meet the income requirements of \$25,000 for a family with one (1) in the household; the maximum income increases by \$5,000 for each additional number in the household up to ten (10) additional household members. Applicants must complete the Free Application for Federal Student Aid (FAFSA) and the GO! Opportunities Grant application.

Law Enforcement Officers' Dependents Scholarship Program – waiver of tuition, fees, and room at any public college, university, or technical institute in Arkansas for dependents and spouses of Arkansas law enforcement officers, some Highway and Transportation Department employees, and other public employees, who were killed or permanently disabled in the line of duty.

Military Dependents Scholarship Program – waiver of tuition, fees, room and board at any public college, university, or technical institute in Arkansas for dependents and spouses of Arkansans who were killed or missing in action or who were prisoners of war or who are currently totally and permanently disabled.

The Guard Tuition Incentive Program (GTIP) – is a state funded award to assist soldiers with their educational expenses. A soldier can receive up to \$2,500 per semester (summer sessions not included.) Applications can be obtained at the units or through the Education Office.

Second Effort Scholarship – up to \$1,000 annually to the individuals with the top 10 scores on the GED exam during the previous calendar year.

State Teacher Education (STEP) Program – offers federal loan repayment grants to current teachers that are either minority and/or teaching in a subject and/or geographic shortage area in an Arkansas public school.

Student Undergraduate Research Fellowship (SURF) Program – designed to allow undergraduate students to conduct in-depth research projects in their specific fields of study with the assistance of faculty mentors.

Teacher Opportunity Program – offers reimbursement grants for cost associated with six (6) semester credit hours or the equivalent to current Arkansas teachers who return to an approved institution of higher education to pursue additional education related to job. Priority will be given to those applicants that are pursuing an additional licensure in a subject area declared to be a shortage area.

Workforce Improvement Grant – awards up to \$2,000 annually to students at least 24 years old based on financial need. Students apply using the Free Application for Federal Student Aid and awards are made by the institution the student attends. Students may be enrolled part time.

The first step in applying for financial aid is to fill out the Free Application for Federal Student Aid. This form calculates how much financial aid you could receive from federal or state governments, or if you are eligible for certain grants or scholarships.

Apply online at www.fafsa.edu.gov, ask for a paper version from a school guidance counselor or have a college financial aid office help you fill out the online application.

Before you begin, make sure you have the proper documents to proceed. These include your Social Security number, driver's license number, current W-2s and income tax returns. You can find a complete list on the FAFSA Web site.

Federal Grants and Financial Aid

Source: <http://studentaid.ed.gov>

Parent Loan for Undergraduate Students (PLUS Loan) – Parents can borrow a PLUS Loan to help pay your education expenses if you are a dependent undergraduate student enrolled at least half time in an eligible program at an eligible school. PLUS Loans are available through the Federal Family Education Loan (FFEL) Program and the Direct Loan Program. Your parents can get either loan, but not both, for you during the same enrollment period. They also must have an acceptable credit history. For a Direct PLUS Loan, your parents must complete a Direct PLUS Loan application and promissory note, contained in a single form that you get from your school's financial aid office. For a FFEL PLUS Loan, your parents must complete and submit a PLUS Loan application, available from your school, lender, or your state guaranty agency. After the school completes its portion of the application, it must be sent to a lender for evaluation. Parents must agree to repay the loan within 10 years; beginning 60 days after the funds are fully disbursed.

Pell Grant – A Federal Pell Grant, unlike a loan, does not have to be repaid. Pell Grants are awarded usually only to undergraduate students who have not earned a bachelor's or a professional degree. (In some cases, however, a student enrolled in a post-baccalaureate teacher certification program might receive a Pell Grant.) Pell Grants are considered a foundation of federal financial aid, to which aid from other federal and nonfederal sources might be added.

Perkins Loan – A Federal Perkins Loan is a low-interest loan for both undergraduate and graduate students with exceptional financial need. Federal Perkins Loans are made through a school's financial aid office. Your school is your lender, and the loan is made with government funds. You must repay this loan to your school.

Stafford Loan – You must fill out a FAFSA. After your FAFSA is processed, your school will review the results and will inform you about your loan eligibility. You also will have to sign a promissory note, a binding legal document that lists the conditions under which you're borrowing and the terms under which you agree to repay your loan.

Supplemental Educational Opportunity Grant – Federal Supplemental Educational Opportunity Grants (FSEOG) are for undergraduates with exceptional financial need. Pell Grant recipients with the lowest EFCs will be the first to get FSEOGs. Just like Pell Grants, FSEOGs don't have to be paid back.

Work Study – Federal Work-Study (FWS) provides part-time jobs for undergraduate and graduate students with financial need, allowing them to earn money to help pay education expenses. The program encourages community service work and work related to the recipient's course of study.

Don't Forget!

Fill out the FAFSA form online after January 1 for the 2010-2011 school year.

www.fafsa.edu.gov

Arkansas Colleges

	Enrollment/Tuition Annual	Admissions
Four-year Public		
Arkansas State University www.astate.edu	11,490 \$6,370	P.O. Box 1630 Jonesboro, AR 72467 (870) 972-3024 admissions@astate.edu
Arkansas Tech University www.atu.edu (800) 582-6953	7,492 \$5,430	1605 Coliseum Drive, Suite 141 Russellville, AR 72801 (479) 968-0343 tech.enroll@atu.edu
Henderson State University www.hsu.edu (800) 228-7333	3,652 \$6,024	HSU Box 7560 Arkadelphia, AR 71999 (870) 230-5028 admissions@hsu.edu
Southern Arkansas University www.saumag.edu (800) 332-7286	3,117 \$5,646	P.O. Box 9382 Magnolia, AR 71754 (870) 235-4040 Muleriders@saumag.edu
University of Arkansas at Fayetteville www.uark.edu (800) 377-8632	19,194 \$6,399	232 Silas Hunt Hall Fayetteville, AR 72701 (479) 575-5346 uofa@uark.edu
University of Arkansas at Fort Smith www.uafortsmith.edu (888) 512-5466	6,772 \$4,410	P.O. Box 3649 5210 Grand Ave. Fort Smith, AR 72913 (479) 788-7120
University of Arkansas at Little Rock www.ualr.edu (800) 482-8892	11,965 \$6,121	Administration South 208 2801 S. University Little Rock, AR 72204 (501) 569-3127 admissions@ualr.edu
University of Arkansas for Medical Sciences www.uams.edu	2,652 Varies	4301 W. Markham Slot 541 Little Rock, AR 72205 (501) 686-8998
University of Arkansas at Monticello www.uamont.edu	3,302 \$4,600	P.O. Box 3600 Monticello, AR 71656 (870) 460-1026 (800) 844-1826
University of Arkansas at Pine Bluff www.uapb.edu (800) 264-6585	3,525 \$4,676	Mail Slot 4983 1200 N. University Drive Pine Bluff, AR 71601 (870) 575-8492

& Universities

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Financial Aid

P.O. Box 1620
Jonesboro, AR 72467
(870) 972-2310
finaid@astate.edu

1605 Coliseum Drive, Suite 117
Russellville, AR 72801
(479) 968-0399
fa.help@atu.edu

HSU Box 7812
Arkadelphia, AR 71999
(870) 230-5148

P.O. Box 9344
Magnolia, AR 71754
(870) 235-4023

114 Silas Hunt Hall
Fayetteville, AR 72701
(479) 575-3806

5210 Grand Ave.
P.O. Box 3649
Fort Smith, AR 72913
(479) 788-7090
finaid@uafortsmith.edu

Administration South 208
2801 S. University
Little Rock, AR 72204
(501) 569-3035
financialaid@ualr.edu

4301 W. Markham
Slot 864
Little Rock, AR 72205
(501) 686-5451

P.O. Box 3470
Monticello, AR 71656
(870) 460-1050
(800) 226-2643

Mail Slot 4985
Pine Bluff, AR 71601
(870) 575-8302
finaid@uapb.edu

Housing

P.O. Box 2774
Jonesboro, AR 72467
(870) 972-2042
reslife@astate.edu

1605 Coliseum Drive, Suite 229
Russellville, AR 72801
(479) 968-0376
residence.life@atu.edu

HSU Box 7533
Arkadelphia, AR 71999
(870) 230-5083

P.O. Box 9431
Magnolia, AR 71754
(870) 235-4047
housing@saumag.edu

900 Holtz Hall
Fayetteville, AR 72701
(479) 575-3951
housing@uark.edu

Sebastian Commons
Leasing Center
801 N. 49th St.
Fort Smith, AR 72903
(479) 783-7577

Office of Student Housing
2801 S. University
Little Rock, AR 72204
(501) 661-1743
housing@ualr.edu

4601 W. Markham
Little Rock, AR 72205
(501) 686-5850

P.O. Box 3466
Monticello, AR 71656
(870) 460-1045
reslife@uamont.edu

P.O. Box 4933
Pine Bluff, AR 71611
(870) 575-8079

Arkansas Colleges

	Enrollment/Tuition Annual	Admissions
University of Central Arkansas www.uca.edu (800) 243-8245	12,974 \$6,505	Bernard Hall 201 Donaghey Ave. Conway, AR 72035 (501) 450-3128 admissions@uca.edu
Four-year Private		
Arkansas Baptist College www.arkansasbaptist.edu	626 \$7,018	1621 Dr. Martin Luther King Drive Little Rock, AR 72202 (501) 244-5104
Central Baptist College www.cbc.edu (800) 205-6872	559 \$10,010	1501 College Ave. Conway, AR 72034 (501) 329-6872
Harding University http://www.harding.edu/	6,447 \$13,130	P.O. Box 12255 Searcy, AR 72149 (501) 279-4407 (800) 477-4407 admissions@harding.edu
Hendrix College www.hendrix.edu (800) 277-9017	1,350 \$26,080	1600 Washington Ave. Conway, AR 72032 (501) 450-1362 adm@hendrix.edu
John Brown University www.jbu.edu (877) 528-4636	2,017 \$18,066	2000 W. University Siloam Springs, AR 72761 (479) 524-9500 jbuinfo@jbu.edu
Lyon College www.lyon.edu (800) 423-2542	458 \$19,034	P.O. Box 2317 Batesville, AR 72503 (870) 307-7250 admissions@lyon.edu
Ouachita Baptist University www.obu.edu (800) 324-5628	1,494 \$18,940	P.O. Box 3757 410 Ouachita St. Arkadelphia, AR 71998 (870) 245-5000 admissions@obu.edu
Philander Smith College www.philandersmithadmissions.com (800) 446-6772	587 \$8,296	One Trudiee Kibbe Reed Drive Little Rock, AR 72202 (501) 370-5221
University of the Ozarks www.Ozarks.edu (800) 264-8636	675 \$18,900	415 N. College Clarksville, AR 72830 (479) 979-1227 admiss@ozarks.edu

& Universities

Tuition for public institutions is based on ADHE estimates of 15 credit hours plus mandatory fees per semester for the 2008-2009 school year. Tuition for private institutions is based on figures from the institution's Web site or financial aid office. Some private institutions have set rates for each program offered. Check with the institution for actual tuition and fees.

Financial Aid

McCastlain Hall 001
201 Donaghey Ave.
Conway, AR 72035
(501) 450-3140
finaid@uca.edu

1621 Dr. Martin Luther King Drive
Little Rock, AR 72202
(501) 374-0804

1501 College Ave.
Conway, AR 72034
(501) 329-6872

Student Financial Aid Services
P.O. Box 12282
Searcy, AR 72149
(501) 279-4257
(800) 477-3243
finaid@harding.edu

1600 Washington Ave.
Conway, AR 72032
(501) 450-1368
student_aid@hendrix.edu

2000 W. University
Siloam Springs, AR 72761
(479) 524-9500
finaid@jbu.edu

P.O. Box 2317
Batesville, AR 72503
(870) 307-7257

P.O. Box 3754
410 Ouachita St.
Arkadelphia, AR 71998
(870) 245-5000
finaid@obu.edu

One Trudiee Kibbe Reed Drive
Little Rock, AR 72202
(501) 370-5350
financialaid@philander.edu

415 N. College
Clarksville, AR 72830
(479) 979-1221

Housing

Bernard Hall, Room 201
201 Donaghey Ave.
Conway, AR 72035
(501) 450-3132

1621 Dr. Martin Luther King Drive
Little Rock, AR 72202
(501) 244-5164

1501 College Ave.
Conway, AR 72034
(501) 329-6872

(501) 279-4256
(800) 879-4256
housing@harding.edu

Hendrix Residence Life
1600 Washington Ave.
Conway, AR 72032
(501) 450-1416
housing@hendrix.edu

2000 W. University
Siloam Springs, AR 72761
(479) 524-7229

Residence Life
P.O. Box 2317
Batesville, AR 72503
(870) 307-7375

Residence Life
410 Ouachita St.
Arkadelphia, AR 71998
(870) 245-5000

Residential Life
One Trudiee Kibbe Reed Drive
Little Rock, AR 72202
(501) 975-6059

Seay Student Center
415 N. College
Clarksville, AR 72830
(479) 979-1322

Arkansas Colleges

	Enrollment/Tuition Annual	Admissions
Williams Baptist College www.wbcoll.edu (800) 722-4434	565 \$10,950	P.O. Box 3737 Walnut Ridge, AR 72476 (870) 759-4120 admissions@wbcoll.edu
Two-year Public		
Arkansas Northeastern College www.anc.edu	1,859 \$2,020	P.O. Box 1109 Blytheville, AR 72315 (870) 838-2955
Arkansas State University at Beebe www.asub.edu (800) 632-9985	4,459 \$2,670	P.O. Box 1000 Beebe, AR 72012 (501) 882-8260 admissions@asub.edu
Arkansas State University at Mountain Home www.asumh.edu	1,296 \$2,760	1600 S. College St. Mountain Home, AR 72653 (870) 508-6104
Arkansas State University at Newport www.asun.edu (800) 976-1676	1,628 \$2,400	7648 Victory Blvd. Newport, AR 72112 (870) 512-7800
Black River Technical College www.blackrivertech.edu	1,898 \$2,190	P.O. Box 468 Pocahontas, AR 72455 (870) 248-4000
Cossatot Community College of the University of Arkansas www.cccua.edu (800) 844-4471	1,396 \$1,920	P.O. Box 960 DeQueen, AR 71832 (870) 584-4471
East Arkansas Community College www.eacc.edu (877) 797-3222	1,447 \$2,130	1700 Newcastle Road Forrest City, AR 72335 (870) 633-4480
Mid-South Community College www.midsouthcc.edu	1,802 \$2,280	2000 W. Broadway West Memphis, AR 72301 (870) 733-6722 admissions@midsouthcc.edu
National Park Community College www.npcc.edu (800) 760-1825	3,601 \$2,350	101 College Drive Hot Springs National Park, AR 71913 (501) 760-4232
North Arkansas College www.northark.net	2,172 \$2,460	1515 Pioneer Drive Harrison, AR 72601 (870) 391-3505
Northwest Arkansas Community College www.nwacc.edu (800) 995-6922	7,216 \$3,460	One College Drive Bentonville, AR 72712 (479) 636-9222

& Universities

Financial Aid

P.O. Box 3734
Walnut Ridge, AR 72476
(870) 759-4112
financialaid@wbcoll.edu

P.O. Box 1109
Blytheville, AR 72315
(870) 762-3103

P.O. Box 1000
Beebe, AR 72012
(501) 882-8245
finaid@asub.edu

1600 S. College St.
Mountain Home, AR 72653
(870) 508-6195

7648 Victory Blvd.
Newport, AR 72112
(870) 512-7713

P.O. Box 468
Pocahontas, AR 72455
(870) 248-4000

P.O. Box 960
DeQueen, AR 71832
(870) 584-4471

1700 Newcastle Road
Forrest City, AR 72335
(870) 633-4480

Reynolds Center, Room 150
West Memphis, AR 72301
(870) 733-6729
finaid@midsouthcc.edu

101 College Drive
Hot Springs National Park, AR 71913
(501) 760-4237

1515 Pioneer Drive
Harrison, AR 72601
(870) 391-3240

One College Drive
Bentonville, AR 72712
(479) 619-4329
finaid@nwacc.edu

Housing

Office of Housing
P.O. Box 3712
Walnut Ridge, AR 72476
(870)759-4204

Office of Student Life
P.O. Box 1000
Beebe, AR 72102
(501) 882-8351

Tuition for public institutions is based on ADHE estimates of 15 credit hours plus mandatory fees per semester for the 2008-2009 school year. Tuition for private institutions is based on figures from the institution's Web site or financial aid office. Some private institutions have set rates for each program offered. Check with the institution for actual tuition and fees.

Arkansas Colleges

	Enrollment/Tuition Annual	Admissions
Ouachita Technical College www.otcweb.edu (800) 337-0266	1,600 \$2,130	Office of Student Affairs One College Circle Malvern, AR 72104 (501) 337-5000 info@otcweb.edu
Ozarka College www.ozarka.edu (800) 821-4335	1,333 \$2,570	P.O. Box 10 Melbourne, AR 72556 (870) 368-2028 admissions@ozarka.edu
Phillips Community College of the University of Arkansas www.pccua.edu	2,400 \$2,300	P.O. Box 785 Helena, AR 72342 (870) 338-6474
Pulaski Technical College www.pulaskitech.edu	9,096 \$2,660	3000 W. Scenic Drive North Little Rock, AR 72118 (501) 812-2231
Rich Mountain Community College www.rmcc.edu	995 \$2,160	1100 College Drive Mena, AR 71953 (479) 394-7622
South Arkansas Community College www.southark.edu (800) 995-2289	1,519 \$2,410	P.O. Box 7010 El Dorado, AR 71730 (870) 862-8131
Southeast Arkansas College www.seark.edu (888) 732-7582	2,011 \$2,320	1900 Hazel St. Pine Bluff, AR 71603 (870) 850-8605
Southern Arkansas University - Tech www.sautech.edu	1,817 \$3,030	P.O. Box 3499 Camden, AR 71711 (870) 574-4558
University of Arkansas Community College at Batesville www.uacccb.edu (800) 508-7878	1,500 \$2,465	P.O. Box 3350 Batesville, AR 72503 (870) 612-2139 info@uacccb.edu
University of Arkansas Community College at Hope www.uacch.edu	1,257 \$2,016	P.O. Box 140 Hope, AR 71801 (870) 722-8221
University of Arkansas Community College at Morrilton www.uaccm.edu (800) 264-1094	1,963 \$2,730	1537 University Blvd. Morrilton, AR 72110 (501) 977-2053 adm@uaccm.edu
Two-year Private		
Crowley's Ridge College www.crowleysridgecollege.info (800) 264-1096	175 \$9,100	100 College Drive Paragould, AR 72450 (870) 236-6901

& Universities

Financial Aid

Office of Student Affairs
One College Circle
Malvern, AR 72104
(501) 337-5000
financialaid@otcweb.edu

218 College Drive
Melbourne, AR 72556
(870) 368-2009
finaid@ozarka.edu

P.O. Box 785
Helena, AR 72342
(870) 338-6474 Ext. 1160

3000 W. Scenic Drive
North Little Rock, AR 72118
(501) 812-2289

1100 College Drive
Mena, AR 71953
(479) 394-7622

P.O. Box 7010
El Dorado, AR 71730
(870) 862-8131

1900 Hazel St.
Pine Bluff, AR 71603
(870) 543-5909

P.O. Box 3499
Camden, AR 71711
(870) 574-4511

P.O. Box 3350
Batesville, AR 72503
(870) 612-2036

P.O. Box 140
Hope, AR 71801
(870) 722-8264

1537 University Blvd.
Morrilton, AR 72110
(501) 977-2055

100 College Drive
Paragould, AR 72450
(870) 236-6901

Housing

Business Office
P.O. Box 3499
Camden, AR 71711
(870) 574-4519

Tuition for public institutions is based on ADHE estimates of 15 credit hours plus mandatory fees per semester for the 2008-2009 school year. Tuition for private institutions is based on figures from the institution's Web site or financial aid office. Some private institutions have set rates for each program offered. Check with the institution for actual tuition and fees.

Arkansas Colleges

	Enrollment/Tuition Annual	Admissions
Remington College www.remingtoncollege.edu (800) 560-6192	N/A Varies	19 Remington Drive Little Rock, AR 72204 (501) 312-0007
Shorter College www.shortercollege.4t.com	N/A Varies	604 Locust St. North Little Rock, AR 72114 (501) 374-6305
Technical Schools		
Arkansas State University - Searcy www.asub.edu	N/A \$2,296	P.O. Box 909 Searcy, AR 72145 (501) 207-4014
Arkansas State University Technical Center www.asutc.org	N/A \$2,400	P.O. Box 280 Marked Tree, AR 72365 (870) 358-2117
Arkansas Tech University - Ozark www.atu.edu/ozark (866) 225-2884	339 \$2,340	P.O. Box 506 Ozark, AR 72949 (479) 667-2117
Crowley's Ridge Technical Institute www.crti.tec.ar.us (800) 842-2317	N/A Varies	P.O. Box 925 Forrest City, AR 72336 (870) 633-5411
Northwest Technical Institute http://www.nwti.edu	460 Varies	P.O. Box 2000 Springdale, AR 72765 (479) 751-8824 info@nwti.edu
University of Arkansas at Monticello College of Technology Crossett www.uamont.edu (866) 364-6417	203 \$2,050	1326 Highway 52 W. Crossett, AR 71635 (870) 364-6414
University of Arkansas at Monticello College of Technology McGehee www.uamont.edu/mcgehee (800) 747-5360	344 \$2,050	P.O. Box 747 McGehee, AR 71654 (870) 222-5360

& Universities

Financial Aid

19 Remington Drive
Little Rock, AR 72204
(501) 312-0007

604 Locust St.
North Little Rock, AR 72114
(501) 374-6305

P.O. Box 909
Searcy, AR 72145
(501) 207-4013

P.O. Box 280
Marked Tree, AR 72365
(870) 358-2117

P.O. Box 506
Ozark, AR 72949
(479) 667-2117

P.O. Box 925
Forrest City, AR 72336
(870) 633-5411

P.O. Box 2000
Springdale, AR 72765
(479) 751-8824 Ext. 240

1326 Highway 52 W.
Crossett, AR 71635
(870) 364-6414 Ext. 115

P.O. Box 747
McGehee, AR 71654
(870) 222-5360 Ext. 221

Housing

Tuition for public institutions is based on ADHE estimates of 15 credit hours plus mandatory fees per semester for the 2008-2009 school year. Tuition for private institutions is based on figures from the institution's Web site or financial aid office. Some private institutions have set rates for each program offered. Check with the institution for actual tuition and fees.

So, you wanna be a...

2009-2010 Occupations and Careers

Not sure what you want to do with your life?

Well, this is the place to start looking.

The following section is packed with occupations that can be found all over the state in just about every field imaginable. It also will tell you what type education you will need to get those jobs, how many positions are available and, of course, how much you can make doing them! Now, not all the occupations are listed here, there are over 800 of them. If you would like to know more about any occupation, or one that is not listed here, go to www.discover.arkansas.gov and click on "Occupations."

Here's how it works:

Occupation Description

This column provides the title and a brief description of the occupation. The occupations are listed in numerical order by Standard Occupational Classification Codes. Keep in mind the work you actually do will depend on your employer, training, and experience.

Suggested Education

This column lists training or education that is most commonly needed by workers to become fully qualified in the occupation. There may be other training and educational alternatives than those listed.

First professional degree – Requires at least three years of full-time academic study beyond a bachelor's degree

Doctoral degree – Requires at least three years of full-time academic study beyond a bachelor's degree

Master's degree – Requires one or two years of full-time academic study beyond a bachelor's degree

Bachelor's or higher degree, plus work experience – Requires experience in a related position requiring a bachelor's degree

Bachelor's degree – Requires four or five years of full-time academic study

Associate degree – Requires at least two years of full-time academic study

Postsecondary vocational training – Programs last a few weeks to more than a year; leads to a certificate

Work experience in a related occupation – Requires experience in a related position that does not require a degree

Long-term on-the-job training (OJT) – Requires more than 12 months of training or a combination of work experience and classroom instruction

Moderate-term on-the-job training (OJT) – Requires one to 12 months of combined work experience and informal training

Short-term on-the-job training (OJT) – Requires a short demonstration of job duties or one month or less of training or work experience

Estimated Earnings

This column shows an estimated mean hourly wage and annual salary in Arkansas for the occupation. This data is based on an annual wage survey conducted by the Arkansas Labor Market Information Unit. The actual pay for a job may vary depending on the geographic area, qualifications of the employee, and the pay scale of the employer.

N/A – Not Available

Job Outlook

The first line in this column shows an estimate of the total number of workers in the occupation in Arkansas. The second line shows an estimate of the number of openings expected each year in Arkansas for the occupation. The third line shows an estimate of the rate of growth for the occupation in Arkansas. Above average is more than 5 percent, average is between 2 percent and 5 percent, below average is between 0 and 2 percent and decline is below 0 percent. The Arkansas Labor Market Information Unit bases both the growth rate and annual openings data on occupational projections.

AA – Above Average

A – Average

BA – Below Average

D – Decline

Occupation	Education	Earnings Hourly/Annual	Job Outlook
Management, Business, and Financial			
11-1011 Chief Executives			
Determine and formulate policies and provide the overall direction of companies or private and public sector organizations within the guidelines set up by a board of directors or similar governing body. Plan, direct, or coordinate operational activities at the highest level of management with the help of subordinate executives and staff managers.	Bachelor's or higher degree, plus work experience	\$61.30 \$127,510	Total Workers: 2,962 Annual Openings: 87 Growth Rate: BA
11-1021 General and Operations Managers			
Plan, direct, or coordinate the operations of companies or public and private sector organizations. Duties and responsibilities include formulating policies, managing daily operations, and planning the use of materials and human resources, but are too diverse and general in nature to be classified in any one functional area of management or administration.	Bachelor's or higher degree, plus work experience	\$43.38 \$90,220	Total Workers: 11,550 Annual Openings: 263 Growth Rate: BA
11-2011 Advertising and Promotions Managers			
Plan and direct advertising policies and programs or produce collateral materials, such as posters, contests, coupons, or give-aways, to create extra interest in the purchase of a product or service for a department, an entire organization, or on an account basis.	Bachelor's or higher degree, plus work experience	\$37.14 \$77,250	Total Workers: 280 Annual Openings: 7 Growth Rate: BA
11-2021 Marketing Managers			
Determine the demand for products and services offered by a firm and its competitors and identify potential customers. Develop pricing strategies with the goal of maximizing the firm's profits or share of the market while ensuring the firm's customers are satisfied. Oversee product development or monitor trends that indicate the need for new products and services.	Bachelor's or higher degree, plus work experience	\$47.44 \$98,670	Total Workers: 631 Annual Openings: 25 Growth Rate: A
11-2022 Sales Managers			
Direct the actual distribution or movement of a product or service to the customer. Coordinate sales distribution by establishing sales territories, quotas, and goals and establish training programs for sales representatives. Analyze sales statistics gathered by staff to determine sales potential and inventory requirements and monitor the preferences of customers.	Bachelor's or higher degree, plus work experience	\$48.50 \$100,870	Total Workers: 2,258 Annual Openings: 73 Growth Rate: A
11-3021 Computer and Information Systems Managers			
Plan, direct, or coordinate activities in such fields as electronic data processing, information systems, systems analysis, and computer programming.	Bachelor's or higher degree, plus work experience	\$46.10 \$95,880	Total Workers: 1,175 Annual Openings: 36 Growth Rate: A
11-3051 Industrial Production Managers			
Plan, direct, or coordinate the work activities and resources necessary for manufacturing products in accordance with cost, quality, and quantity specifications.	Work experience in a related occupation	\$36.58 \$76,080	Total Workers: 1,532 Annual Openings: 52 Growth Rate: D
11-3061 Purchasing Managers			
Plan, direct, or coordinate the activities of buyers, purchasing officers, and related workers involved in purchasing materials, products, and services.	Bachelor's or higher degree, plus work experience	\$42.53 \$88,450	Total Workers: 549 Annual Openings: 15 Growth Rate: BA
11-3071 Transportation, Storage, and Distribution Managers			
Plan, direct, or coordinate transportation, storage, or distribution activities in accordance with governmental policies and regulations.	Work experience in a related occupation	\$36.31 \$75,530	Total Workers: 925 Annual Openings: 31 Growth Rate: BA
11-9033 Education Administrators, Postsecondary			
Plan, direct, or coordinate research, instructional, student administration and services, and other educational activities at postsecondary institutions, including universities, colleges, and junior and community colleges.	Bachelor's or higher degree, plus work experience	\$38.83 \$80,760	Total Workers: 900 Annual Openings: 35 Growth Rate: A
11-9041 Engineering Managers			
Plan, direct, or coordinate activities in such fields as architecture and engineering or research and development in these fields.	Bachelor's or higher degree, plus work experience	\$41.91 \$93,410	Total Workers: 713 Annual Openings: 21 Growth Rate: A
11-9061 Funeral Directors			
Perform various tasks to arrange and direct funeral services, such as coordinating transportation of the body to mortuary for embalming, interviewing family or other authorized person to arrange details, selecting pallbearers, procuring official for religious rites, and providing transportation for mourners.	Associate Degree	\$21.83 \$45,410	Total Workers: 309 Annual Openings: 8 Growth Rate: BA
11-9081 Lodging Managers			
Plan, direct, or coordinate activities of an organization or department that provides lodging and other accommodations.	Work experience in a related occupation	\$18.08 \$37,600	Total Workers: 731 Annual Openings: 39 Growth Rate: AA
11-9111 Medical and Health Services Managers			
Plan, direct, or coordinate medicine and health services in hospitals, clinics, managed care organizations, public health agencies, or similar organizations.	Bachelor's or higher degree, plus work experience	\$34.57 \$71,910	Total Workers: 2,297 Annual Openings: 69 Growth Rate: A

Occupation	Education	Earnings Hourly/Annual	Job Outlook
13-1023 Purchasing Agents, Except Wholesale, Retail, and Farm Products Purchase machinery, equipment, tools, parts, supplies, or services necessary for the operation of an establishment. Purchase raw or semi-finished materials for manufacturing.	Long-term on-the-job training	\$22.35 \$46,490	Total Workers: 1,731 Annual Openings: 35 Growth Rate: BA
13-1061 Emergency Management Specialists Coordinate disaster response or crisis management activities, provide disaster preparedness training, and prepare emergency plans and procedures for natural (e.g., hurricanes, floods, earthquakes), wartime, or technological (e.g., nuclear power plant emergencies, hazardous materials spills) disasters or hostage situations.	Work experience in a related occupation	\$19.47 \$40,490	Total Workers: 150 Annual Openings: 4 Growth Rate: A
13-1081 Logisticians Analyze and coordinate the logistical functions of a firm or organization. Responsible for the entire life cycle of a product, including acquisition, distribution, internal allocation, delivery, and final disposal of resources.	Bachelor's degree	\$29.64 \$61,660	Total Workers: 928 Annual Openings: 37 Growth Rate: AA
13-2011 Accountants and Auditors Examine, analyze, and interpret accounting records for the purpose of giving advice or preparing statements. Install or advise on systems of recording costs or other financial and budgetary data.	Bachelor's degree	\$24.71 \$51,400	Total Workers: 6,498 Annual Openings: 205 Growth Rate: A
Professional and Related Occupations			
15-1032 Computer Software Engineers, Systems Software Research, design, develop, and test operating systems-level software, compilers, and network distribution software for medical, industrial, military, communications, aerospace, business, scientific, and general computing applications.	Bachelor's degree	\$35.38 \$73,590	Total Workers: 932 Annual Openings: 49 Growth Rate: AA
15-1041 Computer Support Specialists Provide technical assistance to computer system users. Answer questions or resolve computer problems for clients in person, via telephone or from remote location. May provide assistance concerning the use of computer hardware and software, including printing, installation, word processing, electronic mail, and operating systems.	Associate degree	\$18.28 \$38,020	Total Workers: 4,003 Annual Openings: 179 Growth Rate: A
15-1061 Database Administrators Coordinate changes to computer databases, test and implement the database applying knowledge of database management systems. May plan, coordinate, and implement security measures to safeguard computer databases.	Bachelor's degree	\$31.57 \$65,660	Total Workers: 908 Annual Openings: 35 Growth Rate: AA
15-1071 Network and Computer Systems Administrators Install, configure, and support an organization's local area network (LAN), wide area network (WAN), and Internet system or a segment of a network system. Maintain network hardware and software.	Bachelor's degree	\$27.96 \$58,160	Total Workers: 2,105 Annual Openings: 102 Growth Rate: AA
17-1011 Architects, Except Landscape and Naval Plan and design structures, such as private residences, office buildings, theaters, factories, and other structural property.	Bachelor's degree	\$44.58 \$92,720	Total Workers: 754 Annual Openings: 27 Growth Rate: A
17-1022 Surveyors Make exact measurements and determine property boundaries. Provide data relevant to the shape, contour, gravitation, location, elevation, or dimension of land or land features on or near the earth's surface for engineering, mapmaking, mining, land evaluation, construction, and other purposes.	Bachelor's degree	\$21.85 \$45,440	Total Workers: 519 Annual Openings: 28 Growth Rate: A
17-2021 Agricultural Engineers Apply knowledge of engineering technology and biological science to agricultural problems concerned with power and machinery, electrification, structures, soil and water conservation, and processing of agricultural products.	Bachelor's degree	\$32.23 \$67,050	Total Workers: 20 Annual Openings: 2 Growth Rate: A
17-2041 Chemical Engineers Design chemical plant equipment and devise processes for manufacturing chemicals and products, such as gasoline, synthetic rubber, plastics, detergents, cement, paper, and pulp, by applying principles and technology of chemistry, physics, and engineering.	Bachelor's degree	\$38.59 \$80,260	Total Workers: 132 Annual Openings: 11 Growth Rate: AA
17-2051 Civil Engineers Perform engineering duties in planning, designing, and overseeing construction and maintenance of building structures, and facilities, such as roads, railroads, airports, bridges, harbors, channels, dams, irrigation projects, pipelines, power plants, water and sewage systems, and waste disposal units. Includes architectural, structural, traffic, ocean, and geo-technical engineers.	Bachelor's degree	\$33.16 \$68,960	Total Workers: 1,742 Annual Openings: 94 Growth Rate: AA
17-2071 Electrical Engineers Design, develop, test, or supervise the manufacturing and installation of electrical equipment, components, or systems for commercial, industrial, military, or scientific use.	Bachelor's degree	\$37.03 \$77,020	Total Workers: 776 Annual Openings: 59 Growth Rate: AA
17-2081 Environmental Engineers Design, plan, or perform engineering duties in the prevention, control, and remediation of environmental health hazards utilizing various engineering disciplines. Work may include waste treatment, site remediation, or pollution control technology.	Bachelor's degree	\$32.04 \$66,650	Total Workers: 225 Annual Openings: 19 Growth Rate: AA
17-2111 Health and Safety Engineers, Except Mining Safety Engineers and Inspectors Promote worksite or product safety by applying knowledge of industrial processes, mechanics, chemistry, psychology, and industrial health and safety laws.	Bachelor's degree	\$28.01 \$58,270	Total Workers: 108 Annual Openings: 7 Growth Rate: AA

Occupation	Education	Earnings Hourly/Annual	Job Outlook
17-2112 Industrial Engineers Design, develop, test, and evaluate integrated systems for managing industrial production processes including human work factors, quality control, inventory control, logistics and material flow, cost analysis, and production coordination.	Bachelor's degree	\$31.03 \$64,550	Total Workers: 1,281 Annual Openings: 50 Growth Rate: A
17-2131 Materials Engineers Evaluate materials and develop machinery and processes to manufacture materials for use in products that must meet specialized design and performance specifications. Develop new uses for known materials.	Bachelor's degree	\$33.59 \$69,860	Total Workers: 114 Annual Openings: 3 Growth Rate: D
17-2171 Petroleum Engineers Devise methods to improve oil and gas well production and determine the need for new or modified tool designs. Oversee drilling and offer technical advice to achieve economical and satisfactory progress.	Bachelor's degree	\$97.79 \$203,390	Total Workers: N/A Annual Openings: N/A Growth Rate: N/A
17-3011 Architectural and Civil Drafters Prepare detailed drawings of architectural and structural features of buildings or drawings and topographical relief maps used in civil engineering projects, such as highways, bridges, and public works. Utilize knowledge of building materials, engineering practices, and mathematics to complete drawings.	Postsecondary vocational training	\$18.79 \$39,090	Total Workers: 676 Annual Openings: 27 Growth Rate: BA
17-3012 Electrical and Electronics Drafters Prepare wiring diagrams, circuit board assembly diagrams, and layout drawings used for manufacture, installation, and repair of electrical equipment in factories, power plants, and buildings.	Postsecondary vocational training	\$22.66 \$47,140	Total Workers: 285 Annual Openings: 8 Growth Rate: D
17-3022 Civil Engineering Technicians Apply theory and principles of civil engineering in planning, designing, and overseeing construction and maintenance of structures and facilities under the direction of engineering staff or physical scientists.	Associate degree	\$21.30 \$44,310	Total Workers: 255 Annual Openings: 9 Growth Rate: A
17-3023 Electrical and Electronic Engineering Technicians Apply electrical and electronic theory and related knowledge, usually under the direction of engineering staff, to design, build, repair, calibrate, and modify electrical components, circuitry, controls, and machinery for subsequent evaluation and use by engineering staff in making engineering design decisions.	Associate degree	\$20.93 \$43,530	Total Workers: 1,240 Annual Openings: 21 Growth Rate: D
17-3025 Environmental Engineering Technicians Apply theory and principles of environmental engineering to modify, test, and operate equipment and devices used in the prevention, control, and remediation of environmental pollution, including waste treatment and site remediation.	Associate degree	\$18.34 \$38,150	Total Workers: 114 Annual Openings: 5 Growth Rate: A
17-3026 Industrial Engineering Technicians Apply engineering theory and principles to problems of industrial layout or manufacturing production, usually under the direction of engineering staff. May study and record time, motion, method, and speed involved in performance of production, maintenance, clerical, and other worker operations for such purposes as establishing standard production rates or improving efficiency.	Associate degree	\$19.79 \$41,160	Total Workers: 333 Annual Openings: 6 Growth Rate: D
19-1031 Conservation Scientists Manage, improve, and protect natural resources to maximize their use without damaging the environment. May conduct soil surveys and develop plans to eliminate soil erosion or to protect rangelands from fire and rodent damage.	Bachelor's degree	\$30.97 \$64,420	Total Workers: 152 Annual Openings: 8 Growth Rate: A
19-1042 Medical Scientists, Except Epidemiologists Conduct research dealing with the understanding of human diseases and the improvement of human health. Engage in clinical investigation or other research, production, technical writing, or related activities.	Doctoral degree	\$27.95 \$58,140	Total Workers: 287 Annual Openings: 13 Growth Rate: A
19-2041 Environmental Scientists and Specialists, Including Health Conduct research or perform investigation for the purpose of identifying, abating, or eliminating sources of pollutants or hazards that affect either the environment or the health of the population. Utilizing knowledge of various scientific disciplines may collect, synthesize, study, report, and take action based on data derived from measurements or observations of air, food, soil, water, and other sources.	Master's degree	\$24.29 \$50,520	Total Workers: 286 Annual Openings: 16 Growth Rate: AA
19-3011 Economists Conduct research, prepare reports, or formulate plans to aid in solution of economic problems arising from production and distribution of goods and services. May collect and process economic and statistical data using econometric and sampling techniques.	Master's degree	\$21.82 \$45,390	Total Workers: 518 Annual Openings: 27 Growth Rate: A
19-3031 Clinical, Counseling, and School Psychologists Diagnose and treat mental disorders; learning disabilities; and cognitive, behavioral, and emotional problems using individual, child, family, and group therapies. May design and implement behavior modification programs.	Doctoral degree	\$28.49 \$59,250	Total Workers: 1,128 Annual Openings: 38 Growth Rate: A
19-3051 Urban and Regional Planners Develop comprehensive plans and programs for use of land and physical facilities of local jurisdictions, such as towns, cities, counties, and metropolitan areas.	Master's degree	\$21.53 \$44,790	Total Workers: 116 Annual Openings: 6 Growth Rate: AA
19-4092 Forensic Science Technicians Collect, identify, classify, and analyze physical evidence related to criminal investigations. Perform tests on weapons or substances, such as fiber, hair, and tissue to determine significance to investigation.	Bachelor's degree	\$19.68 \$40,940	Total Workers: 100 Annual Openings: 8 Growth Rate: AA

Occupation	Education	Earnings Hourly/Annual	Job Outlook
19-4093 Forest and Conservation Technicians Compile data pertaining to size, content, condition, and other characteristics of forest tracts, under direction of foresters; train and lead forest workers in forest propagation, fire prevention and suppression.	Associate degree	\$18.79 \$39,090	Total Workers: 276 Annual Openings: 14 Growth Rate: BA
21-1013 Marriage and Family Therapists Diagnose and treat mental and emotional disorders, whether cognitive, affective, or behavioral, within the context of marriage and family systems. Apply psychotherapeutic and family systems theories and techniques in the delivery of professional services to individuals, couples, and families for the purpose of treating such diagnosed nervous and mental disorders.	Master's degree	\$29.61 \$61,580	Total Workers: N/A Annual Openings: N/A Growth Rate: N/A
21-1014 Mental Health Counselors Counsel with emphasis on prevention. Work with individuals and groups to promote optimum mental health. May help individuals deal with addictions and substance abuse; family, parenting, and marital problems; suicide; stress management; problems with self-esteem; and issues associated with aging and mental and emotional health.	Master's degree	\$20.04 \$41,690	Total Workers: 382 Annual Openings: 18 Growth Rate: AA
21-1021 Child, Family, and School Social Workers Provide social services and assistance to improve the social and psychological functioning of children and their families and to maximize the family well-being and the academic functioning of children. May assist single parents, arrange adoptions, and find foster homes for abandoned or abused children. In schools, they address such problems as teenage pregnancy, misbehavior, and truancy. May also advise teachers on how to deal with problem children.	Bachelor's degree	\$16.18 \$33,650	Total Workers: 2,419 Annual Openings: 96 Growth Rate: A
21-2011 Clergy Conduct religious worship and perform other spiritual functions associated with beliefs and practices of religious faith or denomination. Provide spiritual and moral guidance and assistance to members.	Master's degree	\$19.62 \$40,800	Total Workers: 4,480 Annual Openings: 61 Growth Rate: BA
23-1011 Lawyers Represent clients in criminal and civil litigation and other legal proceedings, draw up legal documents, and manage or advise clients on legal transactions. May specialize in a single area or may practice broadly in many areas of law.	First professional degree	\$45.82 \$95,300	Total Workers: 3,958 Annual Openings: 115 Growth Rate: A
23-2011 Paralegals and Legal Assistants Assist lawyers by researching legal precedent, investigating facts, or preparing legal documents. Conduct research to support a legal proceeding, to formulate a defense, or to initiate legal action.	Associate degree	\$19.46 \$40,470	Total Workers: 1,464 Annual Openings: 41 Growth Rate: A
25-2011 Preschool Teachers, Except Special Education Instruct children (normally up to 5 years of age) in activities designed to promote social, physical, and intellectual growth needed for primary school in preschool, day care center, or other child development facility. May be required to hold State certification.	Postsecondary vocational training	\$11.52 \$23,970	Total Workers: 4,108 Annual Openings: 129 Growth Rate: A
25-2012 Kindergarten Teachers, Except Special Education Teach elemental natural and social science, personal hygiene, music, art, and literature to children from 4 to 6 years old. Promote physical, mental, and social development. May be required to hold State certification.	Bachelor's degree	N/A \$41,990	Total Workers: 2,510 Annual Openings: 90 Growth Rate: A
25-2021 Elementary School Teachers, Except Special Education Teach pupils in public or private schools at the elementary level basic academic, social, and other formative skills.	Bachelor's degree	N/A \$41,740	Total Workers: 12,337 Annual Openings: 472 Growth Rate: A
25-2022 Middle School Teachers, Except Special and Vocational Education Teach students in public or private schools in one or more subjects at the middle, intermediate, or junior high level, which falls between elementary and senior high school as defined by applicable State laws and regulations.	Bachelor's degree	N/A \$42,880	Total Workers: 5,679 Annual Openings: 207 Growth Rate: A
25-2031 Secondary School Teachers, Except Special and Vocational Education Instruct students in secondary public or private schools in one or more subjects at the secondary level, such as English, mathematics, or social studies. May be designated according to subject matter specialty, such as typing instructors, commercial teachers, or English teachers.	Bachelor's degree	N/A \$45,050	Total Workers: 11,142 Annual Openings: 458 Growth Rate: A
25-4012 Curators Administer affairs of museum and conduct research programs. Direct instructional, research, and public service activities of institution.	Master's degree	\$22.13 \$46,030	Total Workers: 52 Annual Openings: 4 Growth Rate: BA
25-4021 Librarians Administer libraries and perform related library services. Work in a variety of settings, including public libraries, schools, colleges and universities, museums, corporations, government agencies, law firms, non-profit organizations, and healthcare providers.	Master's degree	\$23.48 \$48,840	Total Workers: 1,657 Annual Openings: 53 Growth Rate: BA
27-1024 Graphic Designers Design or create graphics to meet specific commercial or promotional needs, such as packaging, displays, or logos. May use a variety of mediums to achieve artistic or decorative effects.	Bachelor's degree	\$16.81 \$34,960	Total Workers: 1,559 Annual Openings: 48 Growth Rate: BA
27-1025 Interior Designers Plan, design, and furnish interiors of residential, commercial, or industrial buildings. Formulate design which is practical, aesthetic, and conducive to intended purposes, such as raising productivity, selling merchandise, or improving life style. May specialize in a particular field, style, or phase of interior design.	Associate degree	\$17.67 \$36,740	Total Workers: 257 Annual Openings: 7 Growth Rate: D

Occupation	Education	Earnings Hourly/Annual	Job Outlook
27-3011 Radio and Television Announcers Talk on radio or television. May interview guests, act as master of ceremonies, read news flashes, identify station by giving call letters, or announce song title and artist.	Long-term on-the-job training	\$11.90 \$24,750	Total Workers: 493 Annual Openings: 17 Growth Rate: D
27-3022 Reporters and Correspondents Collect and analyze facts about newsworthy events by interview, investigation, or observation. Report and write stories for newspaper, news magazine, radio, or television.	Bachelor's degree	\$14.32 \$29,790	Total Workers: 519 Annual Openings: 17 Growth Rate: D
27-3031 Public Relations Specialists Engage in promoting or creating good will for individuals, groups, or organizations by writing or selecting favorable publicity material and releasing it through various communications media. May prepare and arrange displays, and make speeches.	Bachelor's degree	\$22.40 \$46,590	Total Workers: 1,430 Annual Openings: 28 Growth Rate: A
27-3041 Editors Perform variety of editorial duties, such as laying out, indexing, and revising content of written materials, in preparation for final publication.	Bachelor's degree	\$19.14 \$39,810	Total Workers: 577 Annual Openings: 18 Growth Rate: D
27-3042 Technical Writers Write technical materials, such as equipment manuals, appendices, or operating and maintenance instructions. May assist in layout work.	Bachelor's degree	\$21.69 \$45,120	Total Workers: 176 Annual Openings: 12 Growth Rate: AA
27-4012 Broadcast Technicians Set up, operate, and maintain the electronic equipment used to transmit radio and television programs. Control audio equipment to regulate volume level and quality of sound during radio and television broadcasts. Operate radio transmitter to broadcast radio and television programs.	Associate degree	\$11.25 \$23,400	Total Workers: 530 Annual Openings: 17 Growth Rate: D
27-4031 Camera Operators, Television, Video, and Motion Picture Operate television, video, or motion picture camera to photograph images or scenes for various purposes, such as TV broadcasts, advertising, video production, or motion pictures.	Postsecondary vocational training	\$13.45 \$27,970	Total Workers: 38 Annual Openings: 3 Growth Rate: AA
29-1021 Dentists, General Diagnose and treat diseases, injuries, and malformations of teeth and gums and related oral structures. May treat diseases of nerve, pulp, and other dental tissues affecting vitality of teeth.	First professional degree	\$80.05 \$166,500	Total Workers: 864 Annual Openings: 24 Growth Rate: BA
29-1041 Optometrists Diagnose, manage, and treat conditions and diseases of the human eye and visual system. Examine eyes and visual system, diagnose problems or impairments, prescribe corrective lenses, and provide treatment. May prescribe therapeutic drugs to treat specific eye conditions.	First professional degree	\$49.48 \$102,910	Total Workers: 385 Annual Openings: 10 Growth Rate: A
29-1051 Pharmacists Compound and dispense medications following prescriptions issued by physicians, dentists, or other authorized medical practitioners.	First professional degree	\$46.21 \$96,120	Total Workers: 2,799 Annual Openings: 135 Growth Rate: AA
29-1061 Anesthesiologists Administer anesthetics during surgery or other medical procedures.	First professional degree	\$99.01 \$205,950	Total Workers: 267 Annual Openings: 8 Growth Rate: A
29-1062 Family and General Practitioners Diagnose, treat, and help prevent diseases and injuries that commonly occur in the general population.	First professional degree	\$90.81 \$188,880	Total Workers: 1,237 Annual Openings: 24 Growth Rate: BA
29-1064 Obstetricians and Gynecologists Diagnose, treat, and help prevent diseases of women, especially those affecting the reproductive system and the process of childbirth.	First professional degree	\$104.52 \$217,410	Total Workers: 178 Annual Openings: 4 Growth Rate: BA
29-1065 Pediatricians, General Diagnose, treat, and help prevent children's diseases and injuries.	First professional degree	\$73.37 \$152,600	Total Workers: 191 Annual Openings: 3 Growth Rate: BA
29-1067 Surgeons Treat diseases, injuries, and deformities by invasive methods, such as manual manipulation or by using instruments and appliances.	First professional degree	N/A	Total Workers: 448 Annual Openings: 8 Growth Rate: BA
29-1071 Physician Assistants Provide healthcare services typically performed by a physician, under the supervision of a physician. Conduct complete physicals, provide treatment, and counsel patients. May, in some cases, prescribe medication. Must graduate from an accredited educational program for physician assistants.	Master's degree	\$33.17 \$68,990	Total Workers: 117 Annual Openings: 4 Growth Rate: A
29-1111 Registered Nurses Assess patient health problems and needs, develop and implement nursing care plans, and maintain medical records. Administer nursing care to ill, injured, convalescent, or disabled patients. May advise patients on health maintenance and disease prevention or provide case management. Licensing or registration required.	Associate degree	\$26.58 \$55,280	Total Workers: 23,756 Annual Openings: 835 Growth Rate: A

Occupation	Education	Earnings Hourly/Annual	Job Outlook
<p>29-1121 Audiologists Assess and treat persons with hearing and related disorders. May fit hearing aids and provide auditory training. May perform research related to hearing problems.</p>	First professional degree	\$26.41 \$54,940	Total Workers: 64 Annual Openings: 3 Growth Rate: A
<p>29-1123 Physical Therapists Assess, plan, organize, and participate in rehabilitative programs that improve mobility, relieve pain, increase strength, and decrease or prevent deformity of patients suffering from disease or injury.</p>	Master's degree	\$33.50 \$69,690	Total Workers: 1,653 Annual Openings: 63 Growth Rate: AA
<p>29-1124 Radiation Therapists Provide radiation therapy to patients as prescribed by a radiologist according to established practices and standards.</p>	Associate degree	\$32.96 \$68,550	Total Workers: 115 Annual Openings: 6 Growth Rate: AA
<p>29-1126 Respiratory Therapists Assess, treat, and care for patients with breathing disorders. Assume primary responsibility for all respiratory care modalities, including the supervision of respiratory therapy technicians. Initiate and conduct therapeutic procedures; maintain patient records; and select, assemble, check, and operate equipment.</p>	Associate degree	\$22.62 \$47,040	Total Workers: 1,056 Annual Openings: 37 Growth Rate: A
<p>29-1127 Speech-Language Pathologists Assess and treat persons with speech, language, voice, and fluency disorders. May select alternative communication systems and teach their use. May perform research related to speech and language problems.</p>	Master's degree	\$28.46 \$59,200	Total Workers: 1,478 Annual Openings: 43 Growth Rate: A
<p>29-1131 Veterinarians Diagnose and treat diseases and dysfunctions of animals. May engage in a particular function, such as research and development, consultation, administration, technical writing, sale or production of commercial products, or rendering of technical services to commercial firms or other organizations. Includes veterinarians who inspect livestock.</p>	First professional degree	\$33.79 \$70,290	Total Workers: 452 Annual Openings: 16 Growth Rate: A
<p>29-2011 Medical and Clinical Laboratory Technologists Perform complex medical laboratory tests for diagnosis, treatment, and prevention of disease. May train or supervise staff.</p>	Bachelor's degree	\$23.22 \$48,290	Total Workers: 1,504 Annual Openings: 32 Growth Rate: BA
<p>29-2012 Medical and Clinical Laboratory Technicians Perform routine medical laboratory tests for the diagnosis, treatment, and prevention of disease. May work under the supervision of a medical technologist.</p>	Associate degree	\$15.89 \$33,060	Total Workers: 1,116 Annual Openings: 28 Growth Rate: A
<p>29-2021 Dental Hygienists Clean teeth and examine oral areas, head, and neck for signs of oral disease. May educate patients on oral hygiene, take and develop X-rays, or apply fluoride or sealants.</p>	Associate degree	\$29.38 \$61,100	Total Workers: 1,398 Annual Openings: 65 Growth Rate: AA
<p>29-2034 Radiologic Technologists and Technicians Take X-rays and CAT scans or administer nonradioactive materials into patient's blood stream for diagnostic purposes. Includes technologists who specialize in other modalities, such as computed tomography and magnetic resonance.</p>	Associate degree	\$21.00 \$43,670	Total Workers: 1,809 Annual Openings: 42 Growth Rate: A
<p>29-2041 Emergency Medical Technicians and Paramedics Assess injuries, administer emergency medical care, and extricate trapped individuals. Transport injured or sick persons to medical facilities.</p>	Postsecondary vocational training	\$12.72 \$26,470	Total Workers: 1,788 Annual Openings: 65 Growth Rate: AA
<p>29-2051 Dietetic Technicians Assist dietitians in the provision of food service and nutritional programs. Under the supervision of dietitians, may plan and produce meals based on established guidelines, teach principles of food and nutrition, or counsel individuals.</p>	Postsecondary vocational training	\$10.48 \$21,800	Total Workers: 445 Annual Openings: 20 Growth Rate: A
<p>29-2052 Pharmacy Technicians Prepare medications under the direction of a pharmacist. May measure, mix, count out, label, and record amounts and dosages of medications.</p>	Moderate-term on-the-job training	\$11.49 \$23,900	Total Workers: 3,363 Annual Openings: 246 Growth Rate: AA
<p>29-2054 Respiratory Therapy Technicians Provide specific, well defined respiratory care procedures under the direction of respiratory therapists and physicians.</p>	Associate degree	\$16.70 \$34,730	Total Workers: 284 Annual Openings: 8 Growth Rate: BA
<p>29-2055 Surgical Technologists Assist in operations, under the supervision of surgeons, registered nurses, or other surgical personnel.</p>	Postsecondary vocational training	\$15.84 \$32,950	Total Workers: 1,021 Annual Openings: 52 Growth Rate: A
<p>29-2056 Veterinary Technologists and Technicians Perform medical tests in a laboratory environment for use in the treatment and diagnosis of diseases in animals. Prepare vaccines and serums for prevention of diseases.</p>	Associate degree	\$12.47 \$25,930	Total Workers: 100 Annual Openings: 5 Growth Rate: A

Occupation	Education	Earnings Hourly/Annual	Job Outlook
29-2061 Licensed Practical and Licensed Vocational Nurses Care for ill, injured, convalescent, or disabled persons in hospitals, nursing homes, clinics, private homes, group homes, and similar institutions. May work under the supervision of a registered nurse. Licensing required.	Postsecondary vocational training	\$16.01 \$33,300	Total Workers: 12,073 Annual Openings: 436 Growth Rate: A
29-2071 Medical Records and Health Information Technicians Compile, process, and maintain medical records of hospital and clinic patients in a manner consistent with medical, administrative, ethical, legal, and regulatory requirements of the health care system. Process, maintain, compile, and report patient information for health requirements and standards.	Associate degree	\$13.87 \$28,850	Total Workers: 1,473 Annual Openings: 56 Growth Rate: A
29-2081 Opticians, Dispensing Design, measure, fit, and adapt lenses and frames for client according to written optical prescription or specification. Assist client with selecting frames. Measure customer for size of eyeglasses and coordinate frames with facial and eye measurements and optical prescription.	Long-term on-the-job training	\$13.53 \$28,130	Total Workers: 675 Annual Openings: 35 Growth Rate: A
29-9011 Occupational Health and Safety Specialists Review, evaluate, and analyze work environments and design programs and procedures to control, eliminate, and prevent disease or injury caused by chemical, physical, and biological agents or ergonomic factors. May conduct inspections and enforce adherence to laws and regulations governing the health and safety of individuals. May be employed in the public or private sector.	Bachelor's degree	\$25.70 \$53,450	Total Workers: 544 Annual Openings: 19 Growth Rate: A
Service Occupations			
31-1011 Home Health Aides Provide routine, personal healthcare, such as bathing, dressing, or grooming, to elderly, convalescent, or disabled persons in the home of patients or in a residential care facility.	Short-term on-the-job training	\$8.85 \$18,410	Total Workers: 5,110 Annual Openings: 202 Growth Rate: AA
31-1012 Nursing Aides, Orderlies, and Attendants Provide basic patient care under direction of nursing staff. Perform duties, such as feed, bathe, dress, groom, or move patients, or change linens.	Postsecondary vocational training	\$9.63 \$20,030	Total Workers: 17,800 Annual Openings: 478 Growth Rate: A
31-2011 Occupational Therapist Assistants Assist occupational therapists in providing occupational therapy treatments and procedures. May, in accordance with State laws, assist in development of treatment plans, carry out routine functions, direct activity programs, and document the progress of treatments. Generally requires formal training.	Associate degree	\$24.12 \$50,170	Total Workers: N/A Annual Openings: N/A Growth Rate: N/A
31-2021 Physical Therapist Assistants Assist physical therapists in providing physical therapy treatments and procedures. May, in accordance with State laws, assist in the development of treatment plans, carry out routine functions, document the progress of treatment, and modify specific treatments in accordance with patient status and within the scope of treatment plans established by a physical therapist. Generally requires formal training.	Associate degree	\$21.34 \$44,380	Total Workers: 566 Annual Openings: 26 Growth Rate: AA
31-9091 Dental Assistants Assist dentist, set up patient and equipment, and keep records.	Moderate-term on-the-job training	\$12.82 \$26,670	Total Workers: 2,457 Annual Openings: 113 Growth Rate: AA
31-9092 Medical Assistants Perform administrative and certain clinical duties under the direction of physician. Administrative duties may include scheduling appointments, maintaining medical records, billing, and coding for insurance purposes. Clinical duties may include taking and recording vital signs and medical histories, preparing patients for examination, drawing blood, and administering medications as directed by physician.	Moderate-term on-the-job training	\$12.36 \$25,700	Total Workers: 1,941 Annual Openings: 74 Growth Rate: AA
31-9094 Medical Transcriptionists Use transcribing machines with headset and foot pedal to listen to recordings by physicians and other healthcare professionals dictating a variety of medical reports, such as emergency room visits, diagnostic imaging studies, operations, chart reviews, and final summaries.	Postsecondary vocational training	\$13.81 \$28,730	Total Workers: 941 Annual Openings: 25 Growth Rate: A
33-2011 Fire Fighters Control and extinguish fires or respond to emergency situations where life, property, or the environment is at risk. Duties may include fire prevention, emergency medical service, hazardous material response, search and rescue, and disaster management.	Long-term on-the-job training	\$16.14 \$33,580	Total Workers: 3,009 Annual Openings: 165 Growth Rate: A
33-2021 Fire Inspectors and Investigators Inspect buildings to detect fire hazards and enforce local ordinances and State laws. Investigate and gather facts to determine cause of fires and explosions.	Work experience in a related occupation	\$20.52 \$42,680	Total Workers: 47 Annual Openings: 1 Growth Rate: BA
33-3012 Correctional Officers and Jailers Guard inmates in penal or rehabilitative institution in accordance with established regulations and procedures. May guard prisoners in transit between jail, courtroom, prison, or other point. Includes deputy sheriffs and police who spend the majority of their time guarding prisoners in correctional institutions.	Moderate-term on-the-job training	\$14.30 \$29,740	Total Workers: 5,286 Annual Openings: 307 Growth Rate: AA
33-3051 Police and Sheriff's Patrol Officers Maintain order, enforce laws and ordinances, and protect life and property in an assigned patrol district. Perform combination of following duties: patrol a specific area on foot or in a vehicle; direct traffic; issue traffic summonses; investigate accidents; apprehend and arrest suspects, or serve legal processes of courts.	Long-term on-the-job training	\$17.32 \$36,030	Total Workers: 6,033 Annual Openings: 281 Growth Rate: A
35-1011 Chefs and Head Cooks Direct the preparation, seasoning, and cooking of salads, soups, fish, meats, vegetables, desserts, or other foods. May plan and price menu items, order supplies, and keep records and accounts. May participate in cooking.	Work experience in a related occupation	\$16.51 \$34,340	Total Workers: 412 Annual Openings: 10 Growth Rate: A

Occupation	Education	Earnings Hourly/Annual	Job Outlook
35-1012 First-Line Supervisors/Managers of Food Preparation and Serving Workers Supervise workers engaged in preparing and serving food.	Work experience in a related occupation	\$12.30 \$25,580	Total Workers: 8,251 Annual Openings: 195 Growth Rate: A
35-2011 Cooks, Fast Food Prepare and cook food in a fast food restaurant with a limited menu. Duties of the cooks are limited to preparation of a few basic items and normally involve operating large-volume single-purpose cooking equipment.	Short-term on-the-job training	\$7.46 \$15,510	Total Workers: 10,571 Annual Openings: 495 Growth Rate: A
35-2014 Cooks, Restaurant Prepare, season, and cook soups, meats, vegetables, desserts, or other foodstuffs in restaurants. May order supplies, keep records and accounts, price items on menu, or plan menu.	Long-term on-the-job training	\$9.48 \$19,720	Total Workers: 6,537 Annual Openings: 318 Growth Rate: A
35-2021 Food Preparation Workers Perform a variety of food preparation duties other than cooking, such as preparing cold foods and shellfish, slicing meat, and brewing coffee or tea.	Short-term on-the-job training	\$8.27 \$17,200	Total Workers: 7,785 Annual Openings: 499 Growth Rate: A
35-3021 Combined Food Preparation and Serving Workers, Including Fast Food Perform duties which combine both food preparation and food service.	Short-term on-the-job training	\$7.41 \$15,420	Total Workers: 19,122 Annual Openings: 761 Growth Rate: A
35-3031 Waiters and Waitresses Take orders and serve food and beverages to patrons at tables in dining establishment.	Short-term on-the-job training	\$8.20 \$17,060	Total Workers: 18,226 Annual Openings: 1,385 Growth Rate: A
37-1011 First-Line Supervisors/Managers of Housekeeping and Janitorial Workers Supervise work activities of cleaning personnel in hotels, hospitals, offices, and other establishments.	Work experience in a related occupation	\$13.84 \$28,780	Total Workers: 2,177 Annual Openings: 56 Growth Rate: A
37-2011 Janitors and Cleaners, Except Maids and Housekeeping Cleaners Keep buildings in clean and orderly condition. Perform heavy cleaning duties, such as cleaning floors, shampooing rugs, washing walls and glass, and removing rubbish. Duties may include tending furnace and boiler, performing routine maintenance activities, notifying management of need for repairs, and cleaning snow or debris from sidewalk.	Short-term on-the-job training	\$9.52 \$19,800	Total Workers: 18,579 Annual Openings: 539 Growth Rate: A
37-2012 Maids and Housekeeping Cleaners Perform any combination of light cleaning duties to maintain private households or commercial establishments, such as hotels, restaurants, and hospitals, in a clean and orderly manner. Duties include making beds, replenishing linens, cleaning rooms and halls, and vacuuming.	Short-term on-the-job training	\$7.99 \$16,630	Total Workers: 10,148 Annual Openings: 363 Growth Rate: A
37-3011 Landscaping and Groundskeeping Workers Landscape or maintain grounds of property using hand or power tools or equipment. Workers typically perform a variety of tasks, which may include any combination of the following: sod laying, mowing, trimming, planting, watering, fertilizing, digging, raking, sprinkler installation, and installation of mortarless segmental concrete masonry wall units.	Short-term on-the-job training	\$10.48 \$21,790	Total Workers: 7,522 Annual Openings: 201 Growth Rate: A
39-1021 First-Line Supervisors/Managers of Personal Service Workers Supervise and coordinate activities of personal service workers, such as supervisors of flight attendants, hairdressers, or caddies.	Work experience in a related occupation	\$13.13 \$27,320	Total Workers: 1,281 Annual Openings: 38 Growth Rate: BA
39-2021 Nonfarm Animal Caretakers Feed, water, groom, bathe, exercise, or otherwise care for pets and other nonfarm animals, such as dogs, cats, ornamental fish or birds, zoo animals, and mice.	Short-term on-the-job training	\$8.74 \$18,180	Total Workers: 1,312 Annual Openings: 24 Growth Rate: BA
39-5012 Hairdressers, Hairstylists, and Cosmetologists Provide beauty services, such as shampooing, cutting, coloring, and styling hair, and massaging and treating scalp. May also apply makeup, dress wigs, perform hair removal, and provide nail and skin care services.	Postsecondary vocational training	\$12.18 \$25,330	Total Workers: 3,321 Annual Openings: 113 Growth Rate: A
39-6032 Transportation Attendants, Except Flight Attendants and Baggage Porters Provide services to ensure the safety and comfort of passengers aboard ships, buses, trains, or within the station or terminal. Perform duties, such as greeting passengers, explaining the use of safety equipment, serving meals or beverages, or answering questions related to travel.	Short-term on-the-job training	\$8.22 \$17,090	Total Workers: 80 Annual Openings: 3 Growth Rate: BA
39-9011 Child Care Workers Attend to children at schools, businesses, private households, and child care institutions. Perform a variety of tasks, such as dressing, feeding, bathing, and overseeing play.	Short-term on-the-job training	\$7.85 \$16,330	Total Workers: 12,356 Annual Openings: 616 Growth Rate: A
39-9021 Personal and Home Care Aides Assist elderly or disabled adults with daily living activities at the person's home or in a daytime non-residential facility. Duties performed at a place of residence may include keeping house (making beds, doing laundry, washing dishes) and preparing meals.	Short-term on-the-job training	\$7.98 \$16,600	Total Workers: 7,718 Annual Openings: 304 Growth Rate: A

Occupation	Education	Earnings Hourly/Annual	Job Outlook
Sales and Related Occupations			
41-1011 First-Line Supervisors/Managers of Retail Sales Workers			
Directly supervise sales workers in a retail establishment or department. Duties may include management functions, such as purchasing, budgeting, accounting, and personnel work, in addition to supervisory duties.	Work experience in a related occupation	\$16.20 \$33,700	Total Workers: 20,640 Annual Openings: 479 Growth Rate: BA
41-2011 Cashiers			
Receive and disburse money in establishments other than financial institutions. Usually involves use of electronic scanners, cash registers, or related equipment. Often involved in processing credit or debit card transactions and validating checks.	Short-term on-the-job training	\$8.11 \$16,870	Total Workers: 31,225 Annual Openings: 1,975 Growth Rate: D
41-2021 Counter and Rental Clerks			
Receive orders for repairs, rentals, and services. May describe available options, compute cost, and accept payment.	Short-term on-the-job training	\$10.03 \$20,860	Total Workers: 3,583 Annual Openings: 207 Growth Rate: A
41-2031 Retail Salespersons			
Sell merchandise, such as furniture, motor vehicles, appliances, or apparel in a retail establishment.	Short-term on-the-job training	\$10.46 \$21,750	Total Workers: 37,179 Annual Openings: 1,598 Growth Rate: BA
41-3011 Advertising Sales Agents			
Sell or solicit advertising, including graphic art, advertising space in publications, custom made signs, or TV and radio advertising time. May obtain leases for outdoor advertising sites or persuade retailer to use sales promotion display items.	Moderate-term on-the-job training	\$17.36 \$36,100	Total Workers: 1,451 Annual Openings: 30 Growth Rate: BA
41-3021 Insurance Sales Agents			
Sell life, property, casualty, health, automotive, or other types of insurance. May refer clients to independent brokers, work as independent broker, or be employed by an insurance company.	Bachelor's degree	\$23.97 \$49,850	Total Workers: 3,462 Annual Openings: 121 Growth Rate: A
41-3031 Securities, Commodities, and Financial Services Sales Agents			
Buy and sell securities in investment and trading firms, or call upon businesses and individuals to sell financial services.	Bachelor's degree	\$40.60 \$84,450	Total Workers: 1,164 Annual Openings: 31 Growth Rate: BA
41-3041 Travel Agents			
Plan and sell transportation and accommodations for travel agency customers. Determine destination, modes of transportation, travel dates, costs, and accommodations required.	Postsecondary vocational training	\$13.33 \$27,720	Total Workers: 225 Annual Openings: 2 Growth Rate: D
41-4011 Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products			
Sell goods for wholesalers or manufacturers where technical or scientific knowledge is required in such areas as biology, engineering, chemistry, and electronics, normally obtained from at least 2 years of post-secondary education.	Work experience in a related occupation	\$30.36 \$63,140	Total Workers: 2,311 Annual Openings: 108 Growth Rate: AA
41-9021 Real Estate Brokers			
Operate real estate office, or work for commercial real estate firm, overseeing real estate transactions. Other duties usually include selling real estate or renting properties and arranging loans.	Work experience in a related occupation	\$29.27 \$60,890	Total Workers: 978 Annual Openings: 13 Growth Rate: D
41-9022 Real Estate Sales Agents			
Rent, buy, or sell property for clients. Perform duties, such as study property listings, interview prospective clients, accompany clients to property site, discuss conditions of sale, and draw up real estate contracts. Includes agents who represent buyer.	Postsecondary vocational training	\$18.09 \$37,630	Total Workers: 2,470 Annual Openings: 33 Growth Rate: D
41-9031 Sales Engineers			
Sell business goods or services, the selling of which requires a technical background equivalent to a baccalaureate degree in engineering.	Bachelor's degree	\$34.93 \$72,650	Total Workers: 119 Annual Openings: 2 Growth Rate: D
Office and Administrative Support Occupations			
43-3011 Bill and Account Collectors			
Locate and notify customers of delinquent accounts by mail, telephone, or personal visit to solicit payment.	Short-term on-the-job training	\$13.06 \$27,160	Total Workers: 2,951 Annual Openings: 140 Growth Rate: AA
43-3021 Billing and Posting Clerks and Machine Operators			
Compile, compute, and record billing, accounting, statistical, and other numerical data for billing purposes. Prepare billing invoices for services rendered or for delivery or shipment of goods.	Moderate-term on-the-job training	\$12.75 \$26,520	Total Workers: 3,699 Annual Openings: 44 Growth Rate: BA
43-3031 Bookkeeping, Accounting, and Auditing Clerks			
Compute, classify, and record numerical data to keep financial records complete. Perform any combination of routine calculating, posting, and verifying duties to obtain primary financial data for use in maintaining accounting records.	Moderate-term on-the-job training	\$13.81 \$28,720	Total Workers: 19,870 Annual Openings: 491 Growth Rate: A
43-3051 Payroll and Timekeeping Clerks			
Compile and post employee time and payroll data. May compute employees' time worked, production, and commission. May compute and post wages and deductions. May prepare paychecks.	Moderate-term on-the-job training	\$14.17 \$29,480	Total Workers: 1,820 Annual Openings: 43 Growth Rate: D

Occupation	Education	Earnings Hourly/Annual	Job Outlook
43-3071 Tellers Receive and pay out money. Keep records of money and negotiable instruments involved in a financial institution's various transactions.	Short-term on-the-job training	\$10.19 \$21,200	Total Workers: 7,392 Annual Openings: 505 Growth Rate: A
43-4031 Court, Municipal, and License Clerks Perform clerical duties in courts of law, municipalities, and governmental licensing agencies and bureaus.	Short-term on-the-job training	\$12.01 \$24,990	Total Workers: 1,121 Annual Openings: 47 Growth Rate: A
43-4051 Customer Service Representatives Interact with customers to provide information in response to inquiries about products and services and to handle and resolve complaints.	Moderate-term on-the-job training	\$13.61 \$28,300	Total Workers: 14,518 Annual Openings: 889 Growth Rate: AA
43-4071 File Clerks File correspondence, cards, invoices, receipts, and other records in alphabetical or numerical order or according to the filing system used. Locate and remove material from file when requested.	Short-term on-the-job training	\$9.56 \$19,890	Total Workers: 1,920 Annual Openings: 60 Growth Rate: D
43-4081 Hotel, Motel, and Resort Desk Clerks Accommodate hotel, motel, and resort patrons by registering and assigning rooms to guests, issuing room keys, transmitting and receiving messages, keeping records of occupied rooms and guests' accounts, making and confirming reservations, and presenting statements to and collecting payments from departing guests.	Short-term on-the-job training	\$8.12 \$16,880	Total Workers: 2,412 Annual Openings: 214 Growth Rate: AA
43-4131 Loan Interviewers and Clerks Interview loan applicants to elicit information; investigate applicants' backgrounds and verify references; prepare loan request papers; and forward findings, reports, and documents to appraisal department.	Short-term on-the-job training	\$13.74 \$28,580	Total Workers: 1,755 Annual Openings: 28 Growth Rate: D
43-5021 Couriers and Messengers Pick up and carry messages, documents, packages, and other items between offices or departments within an establishment or to other business concerns, traveling by foot, bicycle, motorcycle, automobile, or public conveyance.	Short-term on-the-job training	\$10.50 \$21,840	Total Workers: 923 Annual Openings: 26 Growth Rate: D
43-5031 Police, Fire, and Ambulance Dispatchers Receive complaints from public concerning crimes and police emergencies. Broadcast orders to police patrol units in vicinity of complaint to investigate.	Moderate-term on-the-job training	\$11.71 \$24,360	Total Workers: 1,184 Annual Openings: 55 Growth Rate: A
43-5032 Dispatchers, Except Police, Fire, and Ambulance Schedule and dispatch workers, work crews, equipment, or service vehicles for conveyance of materials, freight, or passengers, or for normal installation, service, or emergency repairs rendered outside the place of business.	Moderate-term on-the-job training	\$15.79 \$32,850	Total Workers: 2,063 Annual Openings: 55 Growth Rate: BA
43-5041 Meter Readers, Utilities Read meter and record consumption of electricity, gas, water, or steam.	Short-term on-the-job training	\$11.04 \$22,950	Total Workers: 905 Annual Openings: 30 Growth Rate: D
43-5051 Postal Service Clerks Perform any combination of tasks in a post office, such as receive letters and parcels; sell postage and revenue stamps, postal cards, and stamped envelopes; fill out and sell money orders; place mail in pigeon holes of mail rack or in bags according to State, address, or other scheme; and examine mail for correct postage.	Short-term on-the-job training	\$25.25 \$52,510	Total Workers: 814 Annual Openings: 15 Growth Rate: D
43-5052 Postal Service Mail Carriers Sort mail for delivery. Deliver mail on established route by vehicle or on foot.	Short-term on-the-job training	\$22.24 \$46,260	Total Workers: 3,214 Annual Openings: 86 Growth Rate: D
43-5061 Production, Planning, and Expediting Clerks Coordinate and expedite the flow of work and materials within or between departments of an establishment according to production schedule.	Moderate-term on-the-job training	\$18.30 \$38,060	Total Workers: 2,375 Annual Openings: 62 Growth Rate: D
43-5071 Shipping, Receiving, and Traffic Clerks Verify and keep records on incoming and outgoing shipments. Prepare items for shipment. Duties include assembling, addressing, stamping, and shipping merchandise or material; receiving, unpacking, verifying and recording incoming merchandise or material; and arranging for the transportation of products.	Short-term on-the-job training	\$12.64 \$26,300	Total Workers: 5,601 Annual Openings: 128 Growth Rate: D
43-5081 Stock Clerks and Order Fillers Receive, store, and issue sales floor merchandise, materials, equipment, and other items from stockroom, warehouse, or storage yard to fill shelves, racks, tables, or customers' orders. May mark prices on merchandise and set up sales displays.	Short-term on-the-job training	\$9.88 \$20,560	Total Workers: 15,641 Annual Openings: 447 Growth Rate: D
43-5111 Weighers, Measurers, Checkers, and Samplers, Recordkeeping Weigh, measure, and check materials, supplies, and equipment for the purpose of keeping relevant records. Duties are primarily clerical by nature.	Short-term on-the-job training	\$12.35 \$25,680	Total Workers: 1,223 Annual Openings: 33 Growth Rate: D

Occupation	Education	Earnings Hourly/Annual	Job Outlook
<p>43-6011 Executive Secretaries and Administrative Assistants Provide high-level administrative support by conducting research, preparing statistical reports, handling information requests, and performing clerical functions such as preparing correspondence, receiving visitors, arranging conference calls, and scheduling meetings. May also train and supervise lower-level clerical staff.</p>	Work experience in a related occupation	\$16.32 \$33,950	Total Workers: 8,619 Annual Openings: 243 Growth Rate: A
<p>43-6012 Legal Secretaries Perform secretarial duties utilizing legal terminology, procedures, and documents. Prepare legal papers and correspondence, such as summonses, complaints, motions, and subpoenas. May also assist with legal research.</p>	Associate degree	\$14.15 \$29,420	Total Workers: 1,526 Annual Openings: 29 Growth Rate: BA
<p>43-6014 Secretaries, Except Legal, Medical, and Executive Perform routine clerical and administrative functions such as drafting correspondence, scheduling appointments, organizing and maintaining paper and electronic files, or providing information to callers.</p>	Moderate-term on-the-job training	\$11.84 \$24,630	Total Workers: 19,059 Annual Openings: 300 Growth Rate: BA
Farming, Fishing, and Forestry Occupations			
<p>45-2092 Farmworkers and Laborers, Crop, Nursery, and Greenhouse Manually plant, cultivate, and harvest vegetables, fruits, nuts, horticultural specialties, and field crops. Use hand tools, such as shovels, trowels, hoes, tampers, pruning hooks, shears, and knives. Duties may include tilling soil and applying fertilizers; transplanting, weeding, thinning, or pruning crops; applying pesticides; cleaning, grading, sorting, packing and loading harvested products.</p>	Short-term on-the-job training	\$10.94 \$22,760	Total Workers: 4,313 Annual Openings: 136 Growth Rate: BA
<p>45-4011 Forest and Conservation Workers Under supervision, perform manual labor necessary to develop, maintain, or protect forest, forested areas, and woodlands through such activities as raising and transporting tree seedlings; combating insects, pests, and diseases harmful to trees; and building erosion and water control structures and leaching of forest soil. Includes forester aides, seedling pullers, and tree planters.</p>	Moderate-term on-the-job training	\$14.17 \$29,460	Total Workers: 163 Annual Openings: 5 Growth Rate: D
Construction Trades and Related Occupations			
<p>47-2021 Brickmasons and Blockmasons Lay and bind building materials, such as brick, structural tile, concrete block, cinder block, glass block, and terra-cotta block, with mortar and other substances to construct or repair walls, partitions, arches, sewers, and other structures.</p>	Long-term on-the-job training	\$18.31 \$38,080	Total Workers: 1,411 Annual Openings: 48 Growth Rate: A
<p>47-2031 Carpenters Construct, erect, install, or repair structures and fixtures made of wood, such as concrete forms; building frameworks, including partitions, joists, studding, and rafters; wood stairways, window and door frames, and hardwood floors.</p>	Long-term on-the-job training	\$15.94 \$33,150	Total Workers: 6,971 Annual Openings: 89 Growth Rate: BA
<p>47-2111 Electricians Install, maintain, and repair electrical wiring, equipment, and fixtures. Ensure that work is in accordance with relevant codes. May install or service street lights, intercom systems, or electrical control systems.</p>	Long-term on-the-job training	\$19.58 \$40,720	Total Workers: 5,247 Annual Openings: 140 Growth Rate: BA
<p>47-2141 Painters, Construction and Maintenance Paint walls, equipment, buildings, bridges, and other structural surfaces, using brushes, rollers, and spray guns. May remove old paint to prepare surface prior to painting. May mix colors or oils to obtain desired color or consistency.</p>	Moderate-term on-the-job training	\$14.40 \$29,960	Total Workers: 2,481 Annual Openings: 56 Growth Rate: BA
<p>47-2152 Plumbers, Pipefitters, and Steamfitters Assemble, install, alter, and repair pipelines or pipe systems that carry water, steam, air, or other liquids or gases. May install heating and cooling equipment and mechanical control systems.</p>	Long-term on-the-job training	\$17.39 \$36,160	Total Workers: 3,710 Annual Openings: 104 Growth Rate: BA
<p>47-4011 Construction and Building Inspectors Inspect structures using engineering skills to determine structural soundness and compliance with specifications, building codes, and other regulations. Inspections may be general in nature or may be limited to a specific area, such as electrical systems or plumbing.</p>	Work experience in a related occupation	\$19.69 \$40,960	Total Workers: 829 Annual Openings: 33 Growth Rate: A
<p>47-4041 Hazardous Materials Removal Workers Identify, remove, pack, transport, or dispose of hazardous materials, including asbestos, lead-based paint, waste oil, fuel, transmission fluid, radioactive materials, contaminated soil, etc. Specialized training and certification in hazardous materials handling or a confined entry permit are generally required. May operate earth-moving equipment or trucks.</p>	Moderate-term on-the-job training	\$19.30 \$40,140	Total Workers: 178 Annual Openings: 4 Growth Rate: D
<p>47-4051 Highway Maintenance Workers Maintain highways, municipal and rural roads, airport runways, and rights-of-way. Duties include patching broken or eroded pavement, repairing guard rails, highway markers, and snow fences. May also mow or clear brush from along road or plow snow from roadway.</p>	Moderate-term on-the-job training	\$12.95 \$26,930	Total Workers: 1,494 Annual Openings: 58 Growth Rate: A
<p>47-5011 Derrick Operators, Oil and Gas Rig derrick equipment and operate pumps to circulate mud through drill hole.</p>	Moderate-term on-the-job training	\$21.28 \$44,250	Total Workers: 760 Annual Openings: 74 Growth Rate: AA
<p>47-5012 Rotary Drill Operators, Oil and Gas Set up or operate a variety of drills to remove petroleum products from the earth and to find and remove core samples for testing during oil and gas exploration.</p>	Moderate-term on-the-job training	\$23.19 \$48,230	Total Workers: 1,037 Annual Openings: 99 Growth Rate: AA

Occupation	Education	Earnings Hourly/Annual	Job Outlook
47-5013 Service Unit Operators, Oil, Gas, and Mining Operate equipment to increase oil flow from producing wells or to remove stuck pipe, casing, tools, or other obstructions from drilling wells. May also perform similar services in mining exploration operations.	Moderate-term on-the-job training	\$18.09 \$37,630	Total Workers: 569 Annual Openings: 58 Growth Rate: AA
47-5021 Earth Drillers, Except Oil and Gas Operate a variety of drills--such as rotary, churn, and pneumatic--to tap sub-surface water and salt deposits, to remove core samples during mineral exploration or soil testing, and to facilitate the use of explosives in mining or construction. May use explosives. Includes horizontal and earth boring machine operators.	Moderate-term on-the-job training	\$16.19 \$33,670	Total Workers: 82 Annual Openings: 8 Growth Rate: AA
47-5071 Roustabouts, Oil and Gas Assemble or repair oil field equipment using hand and power tools. Perform other tasks as needed.	Moderate-term on-the-job training	\$15.58 \$32,400	Total Workers: 204 Annual Openings: 24 Growth Rate: AA
Installation, Maintenance, and Repair Occupations			
49-1011 First-Line Supervisors/Managers of Mechanics, Installers, and Repairers Supervise and coordinate the activities of mechanics, installers, and repairers.	Work experience in a related occupation	\$23.61 \$49,120	Total Workers: 4,946 Annual Openings: 126 Growth Rate: BA
49-2091 Avionics Technicians Install, inspect, test, adjust, or repair avionics equipment, such as radar, radio, navigation, and missile control systems in aircraft or space vehicles.	Postsecondary vocational training	\$18.30 \$38,070	Total Workers: 358 Annual Openings: 28 Growth Rate: AA
49-2094 Electrical and Electronics Repairers, Commercial and Industrial Equipment Repair, test, adjust, or install electronic equipment, such as industrial controls, transmitters, and antennas.	Postsecondary vocational training	\$21.74 \$45,220	Total Workers: 323 Annual Openings: 13 Growth Rate: BA
49-2096 Electronic Equipment Installers and Repairers, Motor Vehicles Install, diagnose, or repair communications, sound, security, or navigation equipment in motor vehicles.	Postsecondary vocational training	\$12.22 \$25,420	Total Workers: 179 Annual Openings: 7 Growth Rate: BA
49-3011 Aircraft Mechanics and Service Technicians Diagnose, adjust, repair, or overhaul aircraft engines and assemblies, such as hydraulic and pneumatic systems.	Postsecondary vocational training	\$20.39 \$42,410	Total Workers: 657 Annual Openings: 13 Growth Rate: A
49-3021 Automotive Body and Related Repairers Repair and refinish automotive vehicle bodies and straighten vehicle frames.	Long-term on-the-job training	\$16.78 \$34,910	Total Workers: 1,425 Annual Openings: 33 Growth Rate: D
49-3022 Automotive Glass Installers and Repairers Replace or repair broken windshields and window glass in motor vehicles.	Long-term on-the-job training	\$13.52 \$28,120	Total Workers: 249 Annual Openings: 8 Growth Rate: D
49-3023 Automotive Service Technicians and Mechanics Diagnose, adjust, repair, or overhaul automotive vehicles.	Postsecondary vocational training	\$14.79 \$30,760	Total Workers: 6,652 Annual Openings: 141 Growth Rate: BA
49-3031 Bus and Truck Mechanics and Diesel Engine Specialists Diagnose, adjust, repair, or overhaul trucks, buses, and all types of diesel engines. Includes mechanics working primarily with automobile diesel engines.	Postsecondary vocational training	\$16.79 \$34,920	Total Workers: 3,230 Annual Openings: 110 Growth Rate: A
49-3052 Motorcycle Mechanics Diagnose, adjust, repair, or overhaul motorcycles, scooters, mopeds, dirt bikes, or similar motorized vehicles.	Long-term on-the-job training	\$12.80 \$26,620	Total Workers: 200 Annual Openings: 7 Growth Rate: A
49-3053 Outdoor Power Equipment and Other Small Engine Mechanics Diagnose, adjust, repair, or overhaul small engines used to power lawn mowers, chain saws, and related equipment.	Moderate-term on-the-job training	\$11.91 \$24,770	Total Workers: 253 Annual Openings: 5 Growth Rate: BA
49-9021 Heating, Air Conditioning, and Refrigeration Mechanics and Installers Install or repair heating, central air conditioning, or refrigeration systems, including oil burners, hot-air furnaces, and heating stoves.	Long-term on-the-job training	\$17.41 \$36,220	Total Workers: 2,524 Annual Openings: 63 Growth Rate: BA
49-9031 Home Appliance Repairers Repair, adjust, or install all types of electric or gas household appliances, such as refrigerators, washers, dryers, and ovens.	Long-term on-the-job training	\$14.05 \$29,220	Total Workers: 588 Annual Openings: 12 Growth Rate: D

Occupation	Education	Earnings Hourly/Annual	Job Outlook
49-9041 Industrial Machinery Mechanics Repair, install, adjust, or maintain industrial production and processing machinery or refinery and pipeline distribution systems.	Long-term on-the-job training	\$20.16 \$41,930	Total Workers: 4,732 Annual Openings: 96 Growth Rate: BA
49-9042 Maintenance and Repair Workers, General Perform work involving the skills of two or more maintenance or craft occupations to keep machines, mechanical equipment, or the structure of an establishment in repair. Duties may involve pipe fitting; boiler making; insulating; welding; machining; carpentry; repairing electrical or mechanical equipment; installing, aligning, and balancing new equipment; and repairing buildings, floors, or stairs.	Moderate-term on-the-job training	\$14.38 \$29,910	Total Workers: 12,766 Annual Openings: 33 Growth Rate: BA
49-9043 Maintenance Workers, Machinery Lubricate machinery, change parts, or perform other routine machinery maintenance.	Moderate-term on-the-job training	\$15.85 \$32,970	Total Workers: 877 Annual Openings: 14 Growth Rate: D
49-9044 Millwrights Install, dismantle, or move machinery and heavy equipment according to layout plans, blueprints, or other drawings.	Long-term on-the-job training	\$18.14 \$37,730	Total Workers: 1,024 Annual Openings: 10 Growth Rate: D
49-9051 Electrical Power-Line Installers and Repairers Install or repair cables or wires used in electrical power or distribution systems. May erect poles and light or heavy duty transmission towers.	Long-term on-the-job training	\$22.50 \$46,800	Total Workers: 1,910 Annual Openings: 96 Growth Rate: A
49-9052 Telecommunications Line Installers and Repairers String and repair telephone and television cable, including fiber optics and other equipment for transmitting messages or television programming.	Long-term on-the-job training	\$20.62 \$42,890	Total Workers: 1,310 Annual Openings: 40 Growth Rate: BA
49-9062 Medical Equipment Repairers Test, adjust, or repair biomedical or electromedical equipment.	Associate degree	\$18.38 \$38,230	Total Workers: 297 Annual Openings: 19 Growth Rate: AA
Production Occupations			
51-1011 First-Line Supervisors/Managers of Production and Operating Workers Supervise and coordinate the activities of production and operating workers, such as inspectors, precision workers, machine setters and operators, assemblers, fabricators, and plant and system operators.	Work experience in a related occupation	\$22.12 \$46,010	Total Workers: 7,377 Annual Openings: 105 Growth Rate: D
51-2011 Aircraft Structure, Surfaces, Rigging, and Systems Assemblers Assemble, fit, fasten, and install parts of airplanes, space vehicles, or missiles, such as tails, wings, fuselage, bulkheads, stabilizers, landing gear, rigging and control equipment, or heating and ventilating systems.	Moderate-term on-the-job training	\$23.34 \$48,550	Total Workers: N/A Annual Openings: N/A Growth Rate: N/A
51-2022 Electrical and Electronic Equipment Assemblers Assemble or modify electrical or electronic equipment, such as computers, test equipment telemetering systems, electric motors, and batteries.	Short-term on-the-job training	\$14.42 \$29,990	Total Workers: 1,021 Annual Openings: 15 Growth Rate: D
51-2031 Engine and Other Machine Assemblers Construct, assemble, or rebuild machines, such as engines, turbines, and similar equipment used in such industries as construction, extraction, textiles, and paper manufacturing.	Short-term on-the-job training	\$11.63 \$24,200	Total Workers: 302 Annual Openings: 17 Growth Rate: AA
51-2041 Structural Metal Fabricators and Fitters Fabricate, lay out, position, align, and fit parts of structural metal products.	Moderate-term on-the-job training	\$12.82 \$26,660	Total Workers: 1,451 Annual Openings: 25 Growth Rate: D
51-2091 Fiberglass Laminators and Fabricators Laminate layers of fiberglass on molds to form boat decks and hulls, bodies for golf carts, automobiles, or other products.	Moderate-term on-the-job training	\$11.87 \$24,700	Total Workers: 650 Annual Openings: 13 Growth Rate: D
51-2092 Team Assemblers Work as part of a team having responsibility for assembling an entire product or component of a product. Team assemblers can perform all tasks conducted by the team in the assembly process and rotate through all or most of them rather than being assigned to a specific task on a permanent basis. May participate in making management decisions affecting the work. Team leaders who work as part of the team should be included.	Moderate-term on-the-job training	\$11.90 \$24,760	Total Workers: 18,195 Annual Openings: 359 Growth Rate: D
51-3011 Bakers Mix and bake ingredients according to recipes to produce breads, rolls, cookies, cakes, pies, pastries, or other baked goods.	Long-term on-the-job training	\$9.47 \$19,700	Total Workers: 780 Annual Openings: 30 Growth Rate: A
51-3021 Butchers and Meat Cutters Cut, trim, or prepare consumer-sized portions of meat for use or sale in retail establishments.	Long-term on-the-job training	\$11.74 \$24,420	Total Workers: 1,640 Annual Openings: 52 Growth Rate: D

Occupation	Education	Earnings Hourly/Annual	Job Outlook
51-3022 Meat, Poultry, and Fish Cutters and Trimmers Use hand tools to perform routine cutting and trimming of meat, poultry, and fish.	Short-term on-the-job training	\$9.65 \$20,080	Total Workers: 11,191 Annual Openings: 352 Growth Rate: D
51-4011 Computer-Controlled Machine Tool Operators, Metal and Plastic Operate computer-controlled machines or robots to perform one or more machine functions on metal or plastic work pieces.	Moderate-term on-the-job training	\$15.50 \$32,250	Total Workers: 1,319 Annual Openings: 12 Growth Rate: D
51-4012 Numerical Tool and Process Control Programmers Develop programs to control machining or processing of parts by automatic machine tools, equipment, or systems.	Work experience in a related occupation	\$21.76 \$45,250	Total Workers: 101 Annual Openings: 1 Growth Rate: D
51-4022 Forging Machine Setters, Operators, and Tenders, Metal and Plastic Set up, operate, or tend forging machines to taper, shape, or form metal or plastic parts.	Moderate-term on-the-job training	\$11.88 \$24,710	Total Workers: 215 Annual Openings: 6 Growth Rate: D
51-4032 Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic Set up, operate, or tend drilling machines to drill, bore, ream, mill, or countersink metal or plastic work pieces.	Moderate-term on-the-job training	\$14.85 \$30,880	Total Workers: 745 Annual Openings: 14 Growth Rate: D
51-4034 Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic Set up, operate, or tend lathe and turning machines to turn, bore, thread, form, or face metal or plastic materials, such as wire, rod, or bar stock.	Moderate-term on-the-job training	\$14.08 \$29,290	Total Workers: 792 Annual Openings: 14 Growth Rate: D
51-4035 Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic Set up, operate, or tend milling or planing machines to mill, plane, shape, groove, or profile metal or plastic work pieces.	Moderate-term on-the-job training	\$16.29 \$33,880	Total Workers: 334 Annual Openings: 3 Growth Rate: D
51-4041 Machinists Set up and operate a variety of machine tools to produce precision parts and instruments. Includes precision instrument makers who fabricate, modify, or repair mechanical instruments. May also fabricate and modify parts to make or repair machine tools or maintain industrial machines, applying knowledge of mechanics, shop mathematics, metal properties, layout, and machining procedures.	Long-term on-the-job training	\$16.65 \$34,630	Total Workers: 3,714 Annual Openings: 85 Growth Rate: BA
51-4051 Metal-Refining Furnace Operators and Tenders Operate or tend furnaces, such as gas, oil, coal, electric-arc or electric induction, open-hearth, or oxygen furnaces, to melt and refine metal before casting or to produce specified types of steel.	Moderate-term on-the-job training	\$20.95 \$43,580	Total Workers: 180 Annual Openings: 5 Growth Rate: A
51-4052 Pourers and Casters, Metal Operate hand-controlled mechanisms to pour and regulate the flow of molten metal into molds to produce castings or ingots.	Moderate-term on-the-job training	\$19.34 \$40,240	Total Workers: 99 Annual Openings: 5 Growth Rate: AA
51-4071 Foundry Mold and Coremakers Make or form wax or sand cores or molds used in the production of metal castings in foundries.	Moderate-term on-the-job training	\$13.10 \$27,250	Total Workers: 153 Annual Openings: 4 Growth Rate: D
51-4081 Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic Set up, operate, or tend more than one type of cutting or forming machine tool or robot.	Moderate-term on-the-job training	\$15.38 \$31,990	Total Workers: 1,076 Annual Openings: 89 Growth Rate: AA
51-4111 Tool and Die Makers Analyze specifications, lay out metal stock, set up and operate machine tools, and fit and assemble parts to make and repair dies, cutting tools, jigs, fixtures, gauges, and machinists' hand tools.	Long-term on-the-job training	\$18.94 \$39,390	Total Workers: 810 Annual Openings: 10 Growth Rate: D
51-4121 Welders, Cutters, Solderers, and Brazers Use hand-welding, flame-cutting, hand soldering, or brazing equipment to weld or join metal components or to fill holes, indentations, or seams of fabricated metal products.	Postsecondary vocational training	\$14.70 \$30,580	Total Workers: 6,196 Annual Openings: 149 Growth Rate: BA
51-4122 Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders Set up, operate, or tend welding, soldering, or brazing machines or robots that weld, braze, solder, or heat treat metal products, components, or assemblies.	Postsecondary vocational training	\$13.77 \$28,650	Total Workers: 763 Annual Openings: 15 Growth Rate: D
51-4193 Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic Set up, operate, or tend plating or coating machines to coat metal or plastic products with chromium, zinc, copper, cadmium, nickel, or other metal to protect or decorate surfaces. Includes electrolytic processes.	Moderate-term on-the-job training	\$15.99 \$33,250	Total Workers: 374 Annual Openings: 11 Growth Rate: D
51-5023 Printing Machine Operators Set up or operate various types of printing machines, such as offset, letterset, intaglio, or gravure presses or screen printers to produce print on paper or other materials.	Moderate-term on-the-job training	\$15.32 \$31,860	Total Workers: 1,641 Annual Openings: 35 Growth Rate: BA

Occupation	Education	Earnings Hourly/Annual	Job Outlook
51-6011 Laundry and Dry-Cleaning Workers Operate or tend washing or dry-cleaning machines to wash or dry-clean industrial or household articles, such as cloth garments, suede, leather, furs, blankets, draperies, fine linens, rugs, and carpets.	Moderate-term on-the-job training	\$8.45 \$17,570	Total Workers: 2,270 Annual Openings: 70 Growth Rate: BA
51-6093 Upholsterers Make, repair, or replace upholstery for household furniture or transportation vehicles.	Long-term on-the-job training	\$13.72 \$28,550	Total Workers: 500 Annual Openings: 20 Growth Rate: A
51-7011 Cabinetmakers and Bench Carpenters Cut, shape, and assemble wooden articles or set up and operate a variety of woodworking machines, such as power saws, jointers, and mortisers to surface, cut, or shape lumber or to fabricate parts for wood products.	Long-term on-the-job training	\$12.17 \$25,320	Total Workers: 1,653 Annual Openings: 52 Growth Rate: D
51-8013 Power Plant Operators Control, operate, or maintain machinery to generate electric power. Includes auxiliary equipment operators.	Long-term on-the-job training	\$32.80 \$68,220	Total Workers: 242 Annual Openings: 11 Growth Rate: A
51-8031 Water and Liquid Waste Treatment Plant and System Operators Operate or control an entire process or system of machines, often through the use of control boards, to transfer or treat water or liquid waste.	Long-term on-the-job training	\$15.17 \$31,550	Total Workers: 1,440 Annual Openings: 49 Growth Rate: A
51-9031 Cutters and Trimmers, Hand Use hand tools or hand-held power tools to cut and trim a variety of manufactured items, such as carpet, fabric, stone, glass, or rubber.	Short-term on-the-job training	\$11.90 \$24,760	Total Workers: 69 Annual Openings: 2 Growth Rate: A
51-9041 Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders Set up, operate, or tend machines, such as glass forming machines, plodder machines, and tuber machines, to shape and form products, such as glassware, food, rubber, soap, brick, tile, clay, wax, tobacco, or cosmetics.	Moderate-term on-the-job training	\$14.29 \$29,720	Total Workers: 1,885 Annual Openings: 33 Growth Rate: D
51-9061 Inspectors, Testers, Sorters, Samplers, and Weighers Inspect, test, sort, sample, or weigh nonagricultural raw materials or processed, machined, fabricated, or assembled parts or products for defects, wear, and deviations from specifications. May use precision measuring instruments and complex test equipment.	Moderate-term on-the-job training	\$14.02 \$29,150	Total Workers: 6,250 Annual Openings: 79 Growth Rate: D
51-9111 Packaging and Filling Machine Operators and Tenders Operate or tend machines to prepare industrial or consumer products for storage or shipment. Includes cannery workers who pack food products.	Short-term on-the-job training	\$12.03 \$25,020	Total Workers: 4,883 Annual Openings: 83 Growth Rate: D
51-9121 Coating, Painting, and Spraying Machine Setters, Operators, and Tenders Set up, operate, or tend machines to coat or paint any of a wide variety of products including food, glassware, cloth, ceramics, metal, plastic, paper, or wood, with lacquer, silver, copper, rubber, varnish, glaze, enamel, oil, or rust-proofing materials.	Moderate-term on-the-job training	\$12.85 \$26,730	Total Workers: 1,345 Annual Openings: 26 Growth Rate: D
51-9122 Painters, Transportation Equipment Operate or tend painting machines to paint surfaces of transportation equipment, such as automobiles, buses, trucks, trains, boats, and airplanes.	Moderate-term on-the-job training	\$15.66 \$32,560	Total Workers: 745 Annual Openings: 24 Growth Rate: A
Transportation and Material Moving Occupations			
53-1011 Aircraft Cargo Handling Supervisors Direct ground crew in the loading, unloading, securing, and staging of aircraft cargo or baggage. Determine the quantity and orientation of cargo and compute aircraft center of gravity.	Work experience in a related occupation	\$17.96 \$37,360	Total Workers: N/A Annual Openings: N/A Growth Rate: N/A
53-2011 Airline Pilots, Copilots, and Flight Engineers Pilot and navigate the flight of multi-engine aircraft in regularly scheduled service for the transport of passengers and cargo. Requires Federal Air Transport rating and certification in specific aircraft type used.	Bachelor's degree	N/A \$96,310	Total Workers: N/A Annual Openings: N/A Growth Rate: N/A
53-2012 Commercial Pilots Pilot and navigate the flight of small fixed or rotary winged aircraft, primarily for the transport of cargo and passengers. Requires Commercial Rating.	Postsecondary vocational training	N/A \$68,350	Total Workers: 602 Annual Openings: 23 Growth Rate: BA
53-2021 Air Traffic Controllers Control air traffic on and within vicinity of airport and movement of air traffic between altitude sectors and control centers according to established procedures and policies. Authorize, regulate, and control commercial airline flights according to government or company regulations to expedite and ensure flight safety.	Long-term on-the-job training	\$34.05 \$70,830	Total Workers: 162 Annual Openings: 5 Growth Rate: BA
53-2022 Airfield Operations Specialists Ensure the safe takeoff and landing of commercial and military aircraft. Duties include coordination between air-traffic control and maintenance personnel; dispatching; using airfield landing and navigational aids; implementing airfield safety procedures; monitoring and maintaining flight records; and applying knowledge of weather information.	Long-term on-the-job training	\$31.03 \$64,550	Total Workers: N/A Annual Openings: N/A Growth Rate: N/A

Occupation	Education	Earnings Hourly/Annual	Job Outlook
53-3011 Ambulance Drivers and Attendants, Except Emergency Medical Technicians Drive ambulance or assist ambulance driver in transporting sick, injured, or convalescent persons. Assist in lifting patients.	Moderate-term on-the-job training	\$10.35 \$21,520	Total Workers: 56 Annual Openings: 2 Growth Rate: A
53-3022 Bus Drivers, School Transport students or special clients, such as the elderly or persons with disabilities. Ensure adherence to safety rules. May assist passengers in boarding or exiting.	Moderate-term on-the-job training	\$10.39 \$21,600	Total Workers: 6,185 Annual Openings: 141 Growth Rate: A
53-3032 Truck Drivers, Heavy and Tractor-Trailer Drive a tractor-trailer combination or a truck with a capacity of at least 26,000 GVW, to transport and deliver goods, livestock, or materials in liquid, loose, or packaged form. May be required to unload truck. May require use of automated routing equipment. Requires commercial drivers' license.	Moderate-term on-the-job training	\$18.22 \$37,900	Total Workers: 39,623 Annual Openings: 1,053 Growth Rate: A
53-3033 Truck Drivers, Light or Delivery Services Drive a truck or van with a capacity of under 26,000 GVW, primarily to deliver or pick up merchandise or to deliver packages within a specified area. May require use of automatic routing or location software. May load and unload truck.	Short-term on-the-job training	\$12.38 \$25,740	Total Workers: 7,168 Annual Openings: 170 Growth Rate: BA
53-3041 Taxi Drivers and Chauffeurs Drive automobiles, vans, or limousines to transport passengers. May occasionally carry cargo.	Short-term on-the-job training	\$9.14 \$19,020	Total Workers: 955 Annual Openings: 29 Growth Rate: A
53-4011 Locomotive Engineers Drive electric, diesel-electric, steam, or gas-turbine-electric locomotives to transport passengers or freight. Interpret train orders, electronic or manual signals, and railroad rules and regulations.	Moderate-term on-the-job training	\$20.72 \$43,100	Total Workers: 638 Annual Openings: 18 Growth Rate: BA
53-5011 Sailors and Marine Oilers Stand watch to look for obstructions in path of vessel, measure water depth, turn wheel on bridge, or use emergency equipment as directed by captain, mate, or pilot. Break out, rig, overhaul, and store cargo-handling gear, stationary rigging, and running gear.	Short-term on-the-job training	\$15.42 \$32,080	Total Workers: 171 Annual Openings: 7 Growth Rate: D
53-5021 Captains, Mates, and Pilots of Water Vessels Command or supervise operations of ships and water vessels, such as tugboats and ferryboats, that travel into and out of harbors, estuaries, straits, and sounds and on rivers, lakes, bays, and oceans. Required to hold license issued by U.S. Coast Guard.	Work experience in a related occupation	\$28.05 \$58,340	Total Workers: 146 Annual Openings: 4 Growth Rate: D
53-6041 Traffic Technicians Conduct field studies to determine traffic volume, speed, effectiveness of signals, adequacy of lighting, and other factors influencing traffic conditions, under direction of traffic engineer.	Short-term on-the-job training	\$19.38 \$40,320	Total Workers: N/A Annual Openings: N/A Growth Rate: N/A
53-6051 Transportation Inspectors Inspect equipment or goods in connection with the safe transport of cargo or people. Includes rail transport inspectors, such as freight inspectors, car inspectors, rail inspectors, and other nonprecision inspectors of other types of transportation vehicles.	Work experience in a related occupation	\$22.76 \$47,330	Total Workers: 280 Annual Openings: 12 Growth Rate: A
53-7011 Conveyor Operators and Tenders Control or tend conveyors or conveyor systems that move materials or products to and from stockpiles, processing stations, departments, or vehicles. May control speed and routing of materials or products.	Short-term on-the-job training	\$14.83 \$30,840	Total Workers: 932 Annual Openings: 15 Growth Rate: D
53-7051 Industrial Truck and Tractor Operators Operate industrial trucks or tractors equipped to move materials around a warehouse, storage yard, factory, construction site, or similar location.	Short-term on-the-job training	\$13.11 \$27,270	Total Workers: 7,671 Annual Openings: 185 Growth Rate: D
53-7062 Laborers and Freight, Stock, and Material Movers, Hand Manually move freight, stock, or other materials or perform other unskilled general labor. Includes all unskilled manual laborers not elsewhere classified.	Short-term on-the-job training	\$10.52 \$21,870	Total Workers: 26,776 Annual Openings: 919 Growth Rate: D
53-7071 Gas Compressor and Gas Pumping Station Operators Operate steam, gas, electric motor, or internal combustion engine driven compressors. Transmit, compress, or recover gases, such as butane, nitrogen, hydrogen, and natural gas.	Moderate-term on-the-job training	\$22.13 \$46,030	Total Workers: N/A Annual Openings: N/A Growth Rate: N/A
53-7072 Pump Operators, Except Wellhead Pumps Tend, control, or operate power-driven, stationary, or portable pumps and manifold systems to transfer gases, oil, other liquids, slurries, or powdered materials to and from various vessels and processes.	Moderate-term on-the-job training	\$13.77 \$28,640	Total Workers: 129 Annual Openings: 11 Growth Rate: AA
53-7081 Refuse and Recyclable Material Collectors Collect and dump refuse or recyclable materials from containers into truck. May drive truck.	Short-term on-the-job training	\$11.15 \$23,190	Total Workers: 1,658 Annual Openings: 73 Growth Rate: A
53-7121 Tank Car, Truck, and Ship Loaders Load and unload chemicals and bulk solids, such as coal, sand, and grain into or from tank cars, trucks, or ships using material moving equipment.	Moderate-term on-the-job training	\$13.69 \$28,480	Total Workers: 77 Annual Openings: 1 Growth Rate: D



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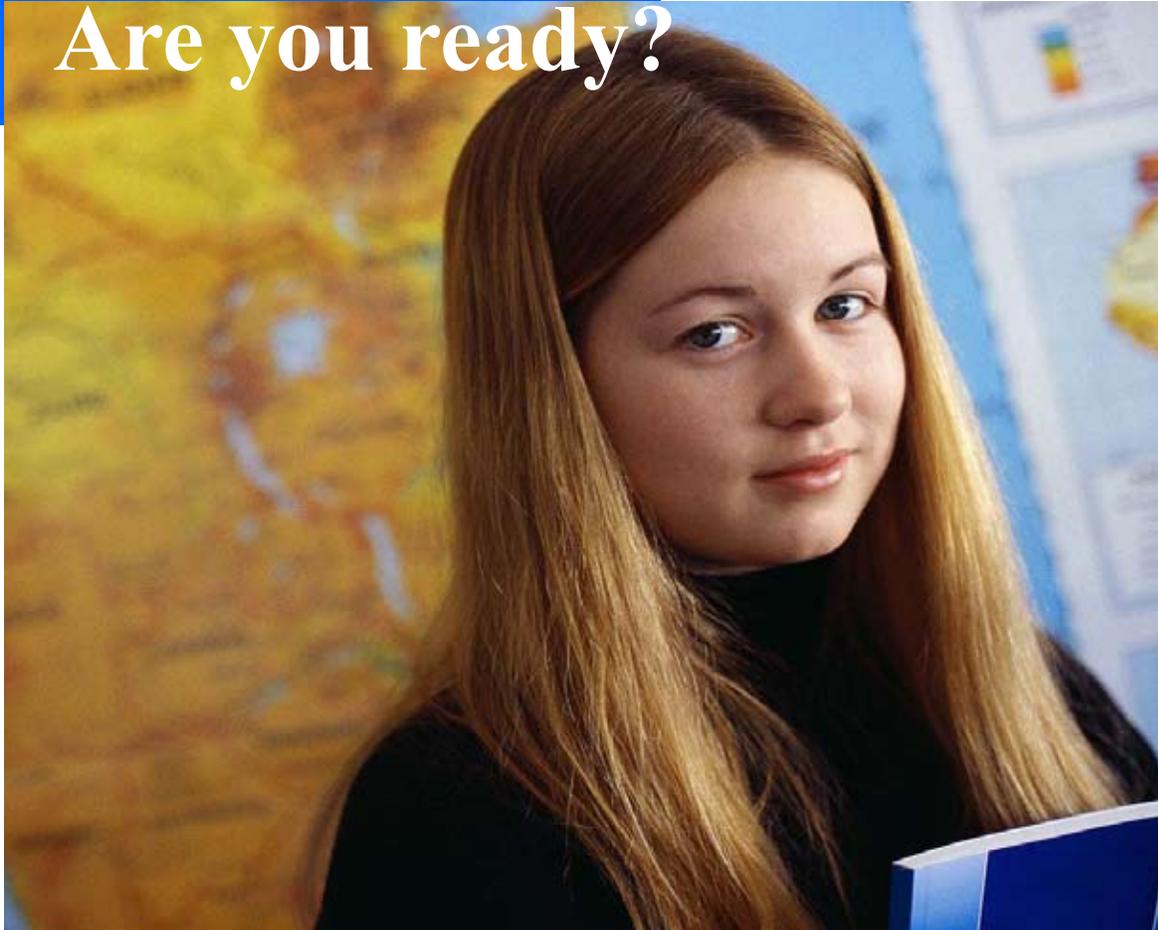
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The image shows five U.S. Coast Guard crew members in light blue uniforms and dark blue caps standing on the deck of a ship. The background is a clear blue sky. The text 'U.S. COAST GUARD and COAST GUARD RESERVE' is in the top left corner. On the right side, the text 'THE SHIELD OF FREEDOM' is written vertically in a large, bold, black font. At the bottom, the phone number '1-877-NOW-USCG' and the website 'GO COASTGUARD.COM' are displayed in white text on a black background. A small U.S. Coast Guard emblem is visible in the bottom right corner.

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In addition, if you qualify for the GO! Opportunities Grant, you may also qualify for other federal student grant programs that can give you up to \$10,000 a year for college.

Grant Details:

The GO! Opportunities Grant provides \$1,000/year for full-time (at least 12 credit hours in the first semester and 15 hours per semester thereafter) and \$500/year for part-time students (at least six credit hours).

GO! Opportunities Grant recipients must certify that they are drug-free and maintain a 2.0 grade point average in college.

Application Requirements:

- Must be a U.S. citizen or Permanent Resident Alien.
- Average adjusted gross family income must not exceed \$25,000 per year, with an additional \$5,000 per year allowed for each additional child. (Example: The maximum annual income of a family with three children would be \$35,000.)
- Applicant must be an Arkansas resident, having maintained this status for at least the 12 months prior to application.
- GO! Opportunities Grant recipients must enroll in an eligible Arkansas higher education institution.

Application Deadlines:

Fall term: September 1

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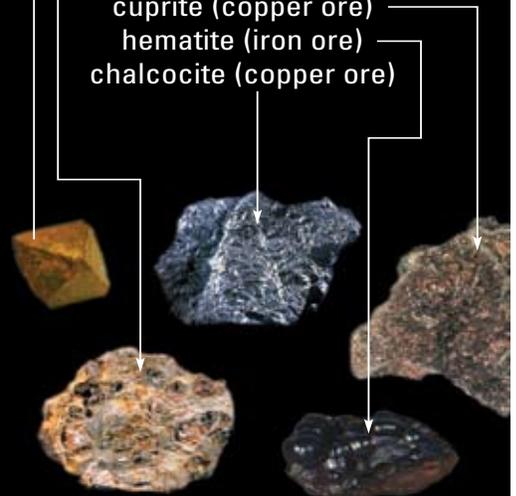
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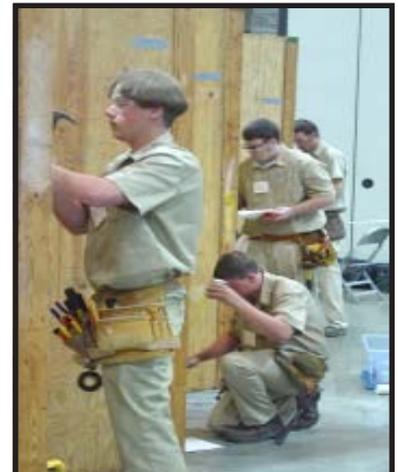
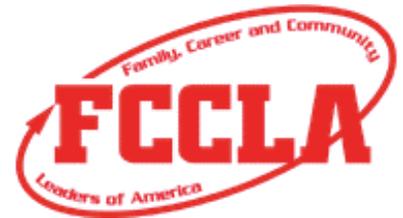
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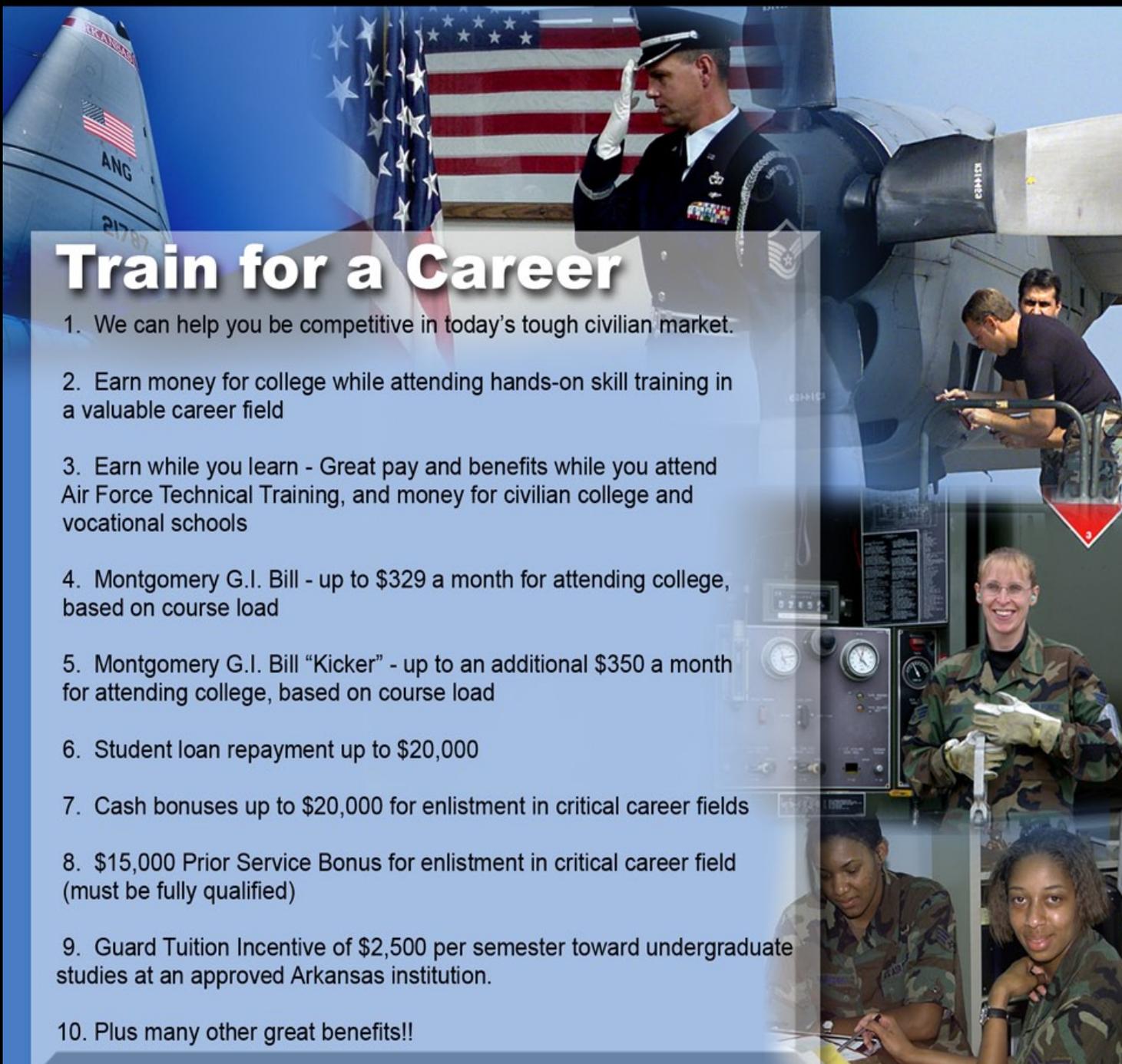
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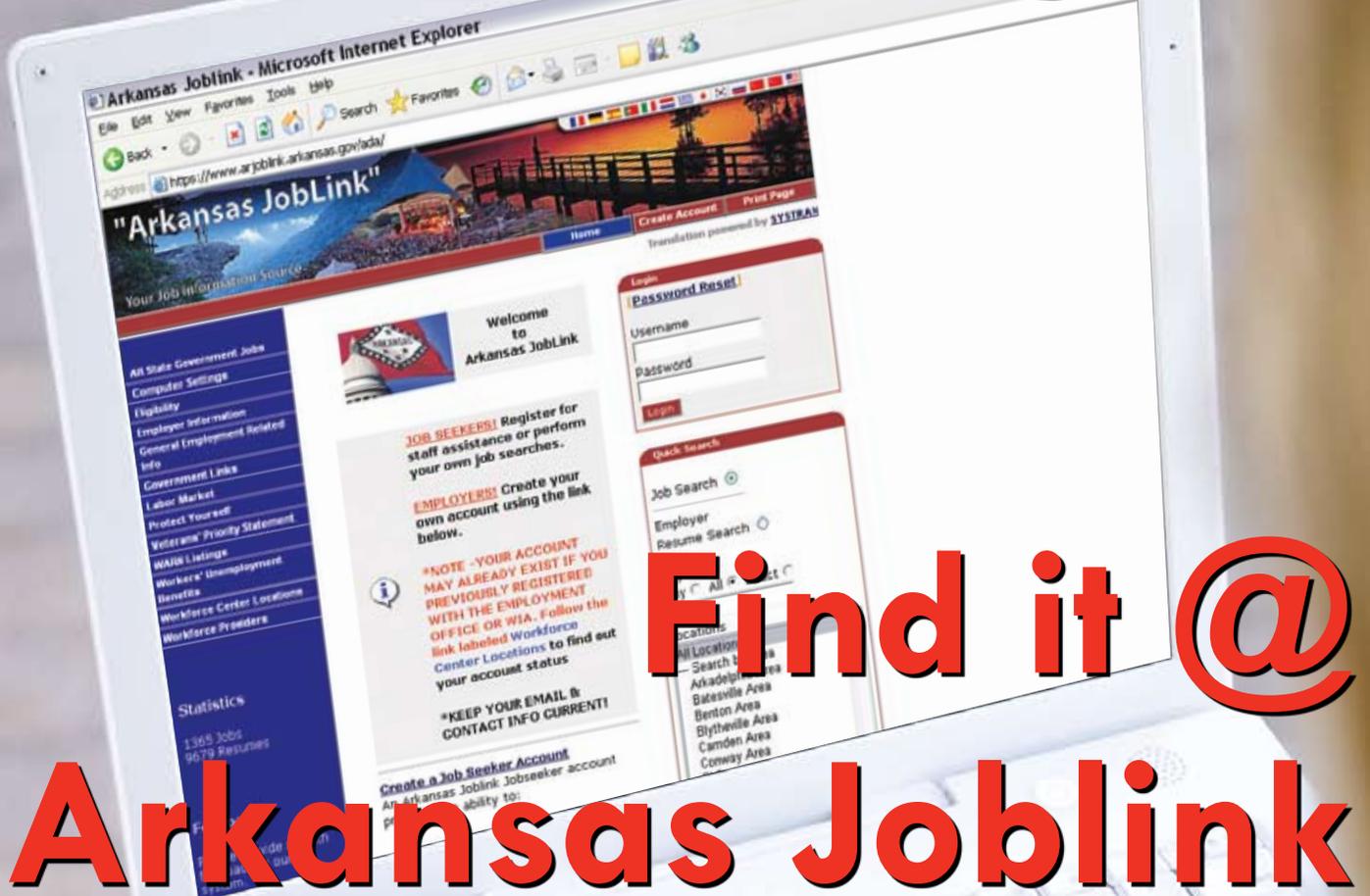
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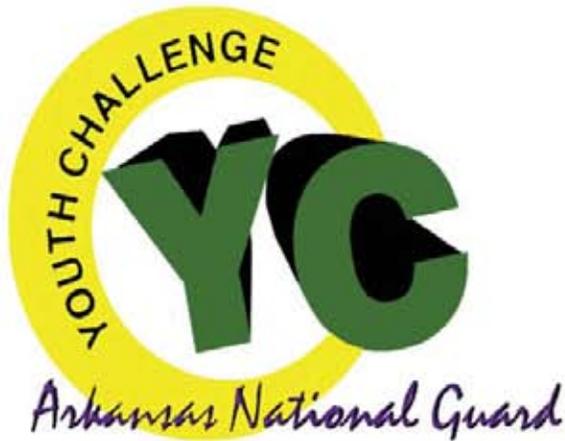
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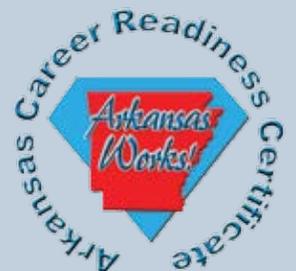
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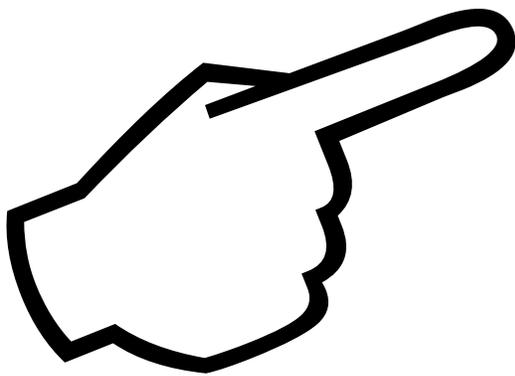
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A goal of DWS is to improve, through coordination and standardization, the development, quality and use of occupational information for career decision-making, program planning and economic development.

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