

CAREER WATCH ARKANSAS

It's not a job. It's a career.

2012 EDITION | FREE

Occupations

Interviews

Resumes

Colleges

Financial Aid

Scholarships

Creative Minds ARTS,

A/V TECHNOLOGY
& COMMUNICATIONS

Jobs for People. People for Jobs.

DWS
Department of
WORKFORCE Services

www.careerwatch.org

From the Governor



Dear Students:

Time passes quickly, and soon, you will graduate from high school. You must decide about furthering your schooling or choosing a satisfying career. I hope that you will do something great with your life, that you will achieve success, and that you will seize opportunity when it comes your way.

While I want Arkansas students to achieve, I also want you to find success in fields that inspire you and lead to satisfying careers. We strive to make every educational opportunity accessible to all of our students, but those efforts will ultimately fall short unless you supply the passion and drive to succeed. I encourage each of you to consider pursuing a career in the rewarding fields of communication, the arts, and audio/visual technology and related occupations. Career specialties in this high-growth arena offer many opportunities, including film, telecommunications, and audio-video technology. From broadcast technicians and production assistants to

newscast directors and technical writers to composers and publishers, there are thousands of challenging careers to choose from within these highly skilled worlds. If you want to be a journalist, a performer, or work behind the cameras, or any of the other pathway options offered in professional and technical occupations, join the millions who already find this a rewarding 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 your decisions will collectively shape our tomorrow. Best wishes for a successful future.

Sincerely,

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Career Watch Arkansas is an annual publication of the Department of Workforce Services. A digital version of this magazine is available at www.careerwatch.org.

The *Career Watch Arkansas Teacher's Guide* and other educational materials are available in PDF format at www.discover.arkansas.gov under the LMI Publications link.

The editorial staff would like to thank the following for their contributions to this publication:

Arkansas Workforce Investment Board
Arkansas Department of Career Education
U.S. Department of Labor
Arkansas Department of Higher Education

A very special thanks goes to the University of Arkansas Printing Services for printing this magazine and technical support during its design.

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.

DWS coordinates information to meet the needs of individuals, especially youth, who are making career decisions, while also providing information to support economic development issues.

DWS is extremely interested in making this publication as useful and informative as possible. Please send your comments, suggestions, ideas or additional copy requests to:

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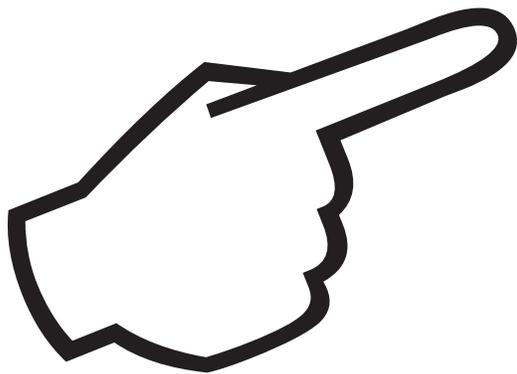
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In just a few minutes,
this publication can be
made better by you!

Go to www.careerwatch.org
and click on the survey link
located on the right side of
the page.

If you are unable to access the Internet, you
can still send in a paper copy of our survey;
it's located right on the back of this page.



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Please take a few moments to evaluate **Career Watch Arkansas**.

Let us know what your information needs are and if this magazine meets those needs.

Please indicate your overall level of satisfaction.

Very Satisfied
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Dissatisfied
Very Dissatisfied

How do you plan to use this information?

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Economic Planning
Wage/Employment Study
Industry or Technology Study
Other, please list

How useful was the information?

Very Useful
Useful
Fair
Not very Useful
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Please indicate what sector you represent.

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Career Watch Arkansas Yes No
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Career Watch Arkansas

Arts, A/V Technology & Communications



Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.

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www.careerwatch.org

Get Attention!

A Resume Guide

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.

WRITE A GREAT RESUME

Do your homework.

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

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.

Build 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.

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; seniorsrule_13@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.



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.

The Department of Workforce Services provides a Pocket Resume, available in the back of this magazine.

Just fill in the information for easy reference while filling out job applications.

Or, go to www.discover.arkansas.gov and click on "Employment" and scroll to the bottom of the page to download a printable PDF version.

For more information and examples, go to www.careerinfonet.org and click on "Resumes + Interviews."

The Interview Get the Job!

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 and don't bad-mouth former employers, you're there for a job interview.



What to take with you

Social Security card

Driver's license

Extra resumes and references

Paper and pen

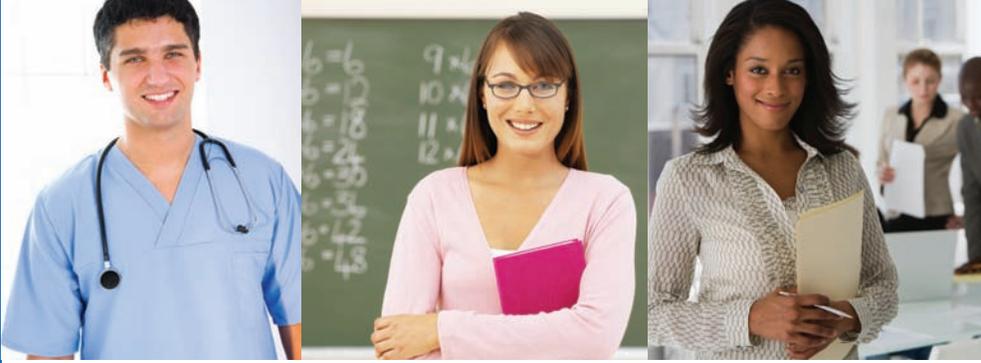


Questions?

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?
- How will the success of the person in this position be measured?
- How would you describe your management style?
- How frequently is performance evaluated?
- What kind of training and/or professional development programs do you have?

School? Work? Both?



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 top growing occupations by education level through 2013.

Based on State of Arkansas' 2011-2013 Short-term Occupational Projections Net Growth

Top 10 Occupations by Education Level

High School or Less

Combined Food Preparation and Serving Workers, Including Fast Food
Retail Salespersons
Personal Care Aides
Customer Service Representatives
Home Health Aides
Telemarketers
Office Clerks, General
Cooks, Fast Food
First-Line Supervisors of Food Preparation and Serving Workers
Janitors and Cleaners, Except Maids and Housekeeping Cleaners

Associate Degree or Vocational Training

Registered Nurses
Nursing Aides, Orderlies, and Attendants
Licensed Practical and Licensed Vocational Nurses
Dental Assistants
Preschool Teachers, Except Special Education
Aircraft Mechanics and Service Technicians
Hairdressers, Hairstylists, and Cosmetologists
Computer Support Specialists
Dental Hygienists
Heating, Air Conditioning, and Refrigeration Mechanics and Installers

Bachelor's Degree or Higher

Elementary School Teachers, Except Special Education
Accountants and Auditors
Human Resources, Labor Relations, and Training Specialists, all other
Network and Computer Systems Architects and Administrators
Middle School Teachers, Except Special and Career/Technical Education
Market Research Analysts and Marketing Specialists
Information Security Analysts, Web Developers, and Computer Network Architects
Physical Therapists
Training and Development Specialists
Software Developers, Applications

What's Hot...What's Not

Top 20 Occupations for Growth



Combined Food Preparation and Serving Workers, Including Fast Food
Retail Salespersons
Personal Care Aides
Registered Nurses
Customer Service Representatives
Home Health Aides
Nursing Aides, Orderlies, and Attendants
Telemarketers
Office Clerks, General
Cooks, Fast Food
First-Line Supervisors of Food Preparation and Serving Workers
Janitors and Cleaners, Except Maids and Housekeeping Cleaners
Childcare Workers
Cashiers
Welders, Cutters, Solderers, and Brazers
Licensed Practical and Licensed Vocational Nurses
First-Line Supervisors of Office and Administrative Support Workers
Inspectors, Testers, Sorters, Samplers, and Weighers
Landscaping and Groundskeeping Workers
First-Line Supervisors of Retail Sales Workers

Top 20 Occupations for Decline



Farmers, Ranchers, and Other Agricultural Managers
Laborers and Freight, Stock, and Material Movers, Hand
Machine Feeders and Offbearers
Secretaries and Administrative Assistants, Except Legal, Medical, and Executive
Shipping, Receiving, and Traffic Clerks
Industrial Truck and Tractor Operators
General and Operations Managers
Postal Service Mail Sorters, Processors, and Processing Machine Operators
Paper Goods Machine Setters, Operators, and Tenders
First-Line Supervisors of Production and Operating Workers
Woodworking Machine Setters, Operators, and Tenders, Except Sawing
Adhesive Bonding Machine Operators and Tenders
Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic
Maids and Housekeeping Cleaners
Sewing Machine Operators
Cabinetmakers and Bench Carpenters
Postal Service Clerks
Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic
Printing Press Operators
Team Assemblers

Based on State of Arkansas' 2011-2013 Short-term Occupational Projections



Skills to Pay the Bills

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.

Reading Comprehension

Understanding written sentences and paragraphs in work-related documents.

Critical Thinking

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

Speaking

Talking to others to convey information effectively.

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.

Monitoring

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

Perceptiveness

Being aware of others' reactions and understanding why they react as they do.

Writing

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

Coordination

Adjusting actions in relation to others' actions.

Learning Strategies

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

Active Learning

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

Arts, A/V Technology & Communications

Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.



Offering a broad range of career opportunities, the Arts, A/V Technology & Communications Career Cluster provides creative minds a way to express their imaginative ideas in visual media, the performing arts, journalism, writing and entertainment services.

For careers in this career cluster, one will need the following skills to be successful: be able to work with a team, while being able to manage your own time and projects to meet deadlines; be able to communicate effectively with others, while expressing your ideas clearly when speaking and writing; be able to use reasoning to problem solve and evaluate information according to measurable or verifiable criteria; be able to be creative, while being able to visualize your final product.

More than 15,000 Arkansans are employed in Arts, A/V Technology & Communications occupations. Occupations in this career cluster

include: Archivists, Broadcast Technicians, Commercial and Industrial Designers, Computer Programmers, Dancers, Fashion Designers, Graphic Designers, Multimedia Artists and Animators, Photographers, Set and Exhibit Designers, Sound Engineering Technicians, plus many more.

Educational training for occupations in this Career Cluster can range from on-the-job training, technical certificates, two- and four-year degrees to even graduate programs.

But you can also start your training in one of these occupations while still in high school by taking art classes, participating in your schools drama programs, writing articles for your student newspaper, or learning to play a musical instrument in your school's music program.

Remember that any post-secondary training you pursue after high school will help you earn more money over your lifetime.

What are the Arts, A/V Technology & Communications Degree Programs?

Almost every university, college, and technical school in Arkansas offers training and education for a career in Arts, A/V Technology & Communications. Here are just a few of the programs:

Dance	Internet Technology/Web Design
Digital Filmmaking	Mass Media Communication
Drama	Media Production & Design
Graphic Communications	Multi-Media Journalism
Graphic Design	Radio Broadcasting

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



In Demand Occupations

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 our economy.

Occupation	Mean Annual Wage
Art, Drama, and Music Teachers Postsecondary	\$50,360
Computer Programmers	\$66,600
Editors	\$45,820
English Language and Literature Teachers, Postsecondary	\$50,340
Graphic Designers	\$36,060
Printing Press Operators	\$30,950
Radio and Television Announcers	\$32,040

I can be a...

Multimedia Artists and Animators

Create special effects, animation, or other visual images using film, video, computers, or other electronic tools and media for use in products or creations, such as computer games, movies, music videos, and commercials.

Sample of reported job titles: Animator, Creative Director, Art Director, Artist, Graphic Artist, Graphic Designer, Illustrator, 3D Artist, 3D Animator, Animation Director

Earnings (Mean): \$30.28 per hour/\$62,980 annual

Estimated workers employed: N/A

Education: Bachelor's Degree



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.

Sample of reported job titles: Reporter, Anchor, News Reporter, General Assignment Reporter, Television News Anchor (TV News Anchor), Television News Reporter, Television Reporter (TV Reporter), Staff Writer, Sports Writer, News Director

Earnings (Mean): \$14.63 per hour/\$30,430 annual

Estimated workers employed: 525

Education: Associate Degree

These are just a few of the occupations in Arts, A/V Technology & Communications. To learn about other occupations, go to <http://online.onetcenter.org/find/> and browse by career cluster for more occupations.



Art Directors

Formulate design concepts and presentation approaches for visual communications media, such as print, broadcasting, and advertising. Direct workers engaged in art work or layout design.

Sample of reported job titles: Art Director, Creative Director, Production Manager

Earnings (Mean): \$24.25 per hour/\$50,440 annual

Estimated workers employed: 269

Education: Bachelor's Degree

Curators

Administer collections, such as artwork, collectibles, historic items, or scientific specimens of museums or other institutions. May conduct instructional, research, or public service activities of institution.

Sample of reported job titles: Curator, Museum Curator, Collections Curator, Associate Curator, Collections Manager, Curator of Collections, Curator of Education, Exhibitions Curator, Exhibits Curator, Gallery Director

Earnings (Mean): \$19.93 per hour/\$41,450 annual

Estimated workers employed: 54

Education: Master's Degree



Other Arts, A/V Technology & Communication Occupations

Broadcast Technicians

Audio and Video Equipment Technicians

Film and Video Editors

Photographers

Graphic Designers

Choreographers

Music Directors

Talent Directors

Craft Artists

Set and Exhibit Designers

Career Clusters



Career clusters contain occupations in the same field of work that require similar skills. Students, parents, and educators can use career clusters to help focus education plans toward obtaining the necessary knowledge, competencies, and training for success in a particular career pathway.

ARCHITECTURE & CONSTRUCTION

Transportation, Distribution & Logistics

law, public safety, corrections & security

Hospitality and Tourism *health sciences*

BUSINESS MANAGEMENT & ADMINISTRATION

FINANCE *human services*

manufacturing **Information Technology**

Marketing, Sales & Service

GOVERNMENT & PUBLIC ADMINISTRATION

EDUCATION AND TRAINING

Science, Technology, Engineering & Mathematics

AGRICULTURE, FOOD & NATURAL RESOURCES

arts, a-v technology & communications

Arts, A-V Technology & Communications Career Cluster

In high school, career clusters are designed to give you the education and skills you need to be successful in a 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 Arts, A-V Technology & Communications career cluster prepares learners for careers in the designing, producing, exhibiting, performing, writing, and publishing of

multimedia content including visual and performing arts and design, journalism, and entertainment services.

The tables on these pages list a sample high school class schedule, Career Focus classes that are required for graduation, Arts, A-V & Technology programs of study, plus work-based and extra curricular activities are also listed on the next pages to help you further your education.

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

Sample High School Schedule

9th Grade	10th Grade	11th Grade	12th Grade
English I or Pre-AP	English II or Pre-AP	English III or AP	English IV or AP
Algebra I or Geometry	Geometry or Algebra II	Algebra II or Trigonometry Pre-AP Calculus	AP Calculus College Algebra AP Statistics
Physical Science	Biology Pre-AP Chemistry Applied Biology/ Chemistry	Chemistry Physics Principals of Technology	AP Biology AP Chemistry AP Physics Earth & Space Science
Civics	World History	US History	Economics

Six Units in a Career Focus are Required for Graduation

Foundation Courses : Career Orientation, Computer Technology, Keyboarding, Foreign Language

Programs of Study Support Courses: EAST/Workforce Technology, Internship, Workplace Readiness

Arts, A-V Technology & Communications Career Pathways

ARTS A/V TECH & FILM

Support Courses

Word Processing or
Computer Business Applications (CBA)
Journalism (ADE)

Extended Learning Opportunities

Jobs for Ark Grads (JAG)
Job Shadowing
Skills USA

Student Television Network
Association of Student Videographers
Gifted and Talented

CC A/V Tech & Film Core Courses

Introduction to Career Communications
Fundamentals of Tech & Film
Intermediate Tech & Film

CC A/V Tech & Film Design Electives

Advanced Tech & Film
Tech & Film Lab
Intro to Career Communications

Industry Certifications

Adobe Premiere,
Apple Final Cut Pro

Related Programs of Study

Graphic Communication
Career Communications,
Journalism & Broadcasting
Desktop Publishing (Business)
Multimedia (Business)
Web Design (Business)

JOURNALISM

Support Courses

Word Processing or
Computer Business Applications (CBA)
Journalism (ADE)

Extended Learning Opportunities

Jobs for Ark Grads (JAG)
Job Shadowing
Gifted and Talented
Skills USA

Student Television Network
Society of Professional Journalists
Arkansas Press Association

CC Journalism Core Courses

Fundamentals of Journalism
Intermediate Journalism

CC Journalism Electives

Introduction to Career Communications
Advanced Journalism
Journalism Lab

Industry Certifications

Arkansas Scholastic Press Association
National Press Association

Related Programs of Study

Radio Broadcasting
Television
Photography

RADIO BROADCASTING

Support Courses

Word Processing or
Computer Business Applications (CBA)
Journalism (ADE)

Extended Learning Opportunities

Jobs for Ark Grads (JAG)
Job Shadowing
Skills USA
National Society of Journalists

Radio Broadcasting Core Courses

Fundamentals of Radio
Intermediate Radio

Radio Broadcasting Electives

Radio Broadcasting Lab
Advanced Radio

Industry Certifications

Apple Audio
Adobe Premiere

Related Programs of Study

Television Production
Journalism
A/V Tech & Film

TELEVISION PRODUCTION

Support Courses

Word Processing or
Computer Business Applications (CBA)
Journalism (ADE)

Extended Learning Opportunities

Jobs for Ark Grads (JAG)
Job Shadowing
Skills USA
Student Television Network

Television Core Courses

Fundamentals of Television
Intermediate Television

Television Electives

Television Lab
Advanced Television

Industry Certifications

Apple Final Cut Pro

Related Programs of Study

Radio Broadcasting
Photography
Advertising and Graphic Design
Journalism
A/V Tech & Film

DANCE TECHNIQUE

Support Courses

Drama (ADE)
Music (ADE)
Art (ADE)

Extended Learning Opportunities

Jobs for Arkansas Grads
Job Shadowing
International Thespian Society

Dance Core Courses

Dance Technique I
Dance Technique II
Dance Technique III
Dance Technique IV

Dance Electives

ACE Approved Performing Arts Lab

Industry Certifications

National Honor Society for Dance Arts
Ballet Arkansas
Arkansas Dance Educators
Arkansas Repertory Theater

Related Programs of Study

ACE Theatre



Arts, A-V Technology & Communications Career Pathways

THEATER PERFORMANCE

Support Courses

Drama (ADE)

Music (ADE)

Art (ADE)

Extended Learning Opportunities

Jobs for Ark Grads (JAG)

Job Shadowing

Theatre Core Courses

Theater Arts Intro

Theater Performing Arts I

Theater Performing Arts II

Theater Electives

ACE Approved Performing Arts Lab

Industry Certifications

International Thespian Society

Arkansas Repertory Theater

Related Programs of Study

ACE Performing Arts/Dance

Theater Technical Design

THEATER TECHNICAL DESIGN

Support Courses

Drama (ADE)

Music (ADE)

Art (ADE)

Extended Learning Opportunities

Jobs for Ark Grads (JAG)

Job Shadowing

Theatre Core Courses

Theater Arts Intro

Theater Technical Design I

Theater Technical Design II

Theater Electives

ACE Approved Performing Arts Lab

Industry Certifications

International Thespian Society

Arkansas Repertory Theater

Related Programs of Study

ACE Performing Arts/Dance

Theater Performance

GRAPHIC COMMUNICATION

Support Courses

Word Processing or

Computer Business Applications (CBA)

Journalism (ADE)

Extended Learning Opportunities

Jobs for Ark Grads (JAG)

Job Shadowing

Skills USA

Graphic Communication Core Courses

Fundamentals of Graphic Communication

Intermediate Graphic Communication

Advanced Graphic Communication

Graphic Communication Electives

Graphic Communication Lab

Industry Certifications

Print-Ed Certification

Related Programs of Study

Advertising and Graphic Design

Career Communications,

Audio, Video Tech & Film

Desktop Publishing (Business)

Multimedia (Business)

Web Design (Business)

ADVERTISING AND GRAPHIC DESIGN

Support Courses

Word Processing or

Computer Business Applications (CBA)

Journalism (ADE)

Extended Learning Opportunities

Jobs for Ark Grads (JAG)

Job Shadowing

Skills USA

Newspaper Staff

Yearbook Staff

Advertising & Graphic Design Core Courses

Fundamentals of Advertising & Graphic Design

Intermediate Advertising & Graphic Design

Advanced Advertising & Graphic Design

Advertising & Graphic Design Electives

Advertising & Graphic Design Lab

Industry Certifications

Adobe Certified Associate

Adobe Certified Expert

Final Cut Pro Certification

Related Programs of Study

Graphic Communication

Career Communications,

Audio, Video Tech & Film

Desktop Publishing (Business)

Multimedia (Business)

Web Design (Business)

PHOTOGRAPHY

Support Courses

Word Processing or

Computer Business Applications (CBA)

Journalism (ADE)

Extended Learning Opportunities

Jobs for Ark Grads (JAG)

Job Shadowing

Skills USA

Arkansas Press Association

Photography Core Courses

Fundamentals of Photography

Intermediate Photography

Advanced Photography

Photography Electives

Photography Lab

Photo Journalism

Industry Certifications

Adobe Certified Associate

Adobe Certified Expert

Final Cut Pro Certification

Related Programs of Study

Career Communications,

Audio, Video Tech & Film

Career Communications,

Journalism

Television

Desktop Publishing (Business)

Multimedia (Business)



How will 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, state government, post-secondary 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 for these costs. Schools with higher costs often have more financial aid available than lower cost schools. 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 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 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 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 Websites



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

www.mappingyourfuture.org

www.slgfa.org

Scholarships, Grants, and Federal Aid

Arkansas Scholarships and Grants

Source: Arkansas Department of Higher Education

The Arkansas Department of Higher Education reviews and approves academic programs and develops funding recommendations for the state's 11 public universities and 22 public two-year colleges, as well as several other post-secondary entities. In addition, the agency is responsible for distributing approximately \$170 million annually from state revenues and lottery funds in the form of financial aid, intended to ease the financial burden of students seeking an education beyond high school.

More than 20 grant and loan repayment programs are available to students, with eligibility requirements ranging from academic status and financial need to specific fields of study. Below is a listing of a few programs:

Academic Challenge Scholarship – provides scholarships to Arkansas residents pursuing a higher education. Funded in large part by the Arkansas Scholarship Lottery, the Academic Challenge Scholarship is available to students regardless of current academic status, whether just graduating from high school, currently enrolled in college, enrolling in college for the first time, or re-enrolling after a period of time out of college.

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. The top 300 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 Scholars are named Governor's Distinguished Scholars and receive tuition, mandatory fees, and 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, and 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 Guard Education Office.

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

State Teacher Education Program (STEP) – offers federal loan repayment to current teachers who 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 costs associated with six (6) semester credit hours or the equivalent to current Arkansas teachers and administrators who return to an approved institution of higher education to pursue additional education related to the job. Priority will be given to those applicants who 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 (FAFSA), and awards are made by the institution the student attends. Students may be enrolled part time.

This information is current as of June 2012 and is provided for informational purposes only. It is not intended to be a complete description of the programs or 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.

Please Note: Due to current economic conditions, awards for all ADHE programs may be limited by the availability of funds. Applicants are encouraged to apply but are also encouraged to pursue all sources of financial aid.

YOUiversal

ARKANSAS FINANCIAL AID SYSTEM

Your Future, No Boundaries



Arkansas residents seeking education beyond high school will now find the scholarship application process more user-friendly than ever before, thanks to the YOUiversal Scholarship Application. By answering a few simple questions about age, grade-point average, ACT or SAT scores, and income level, applicants will be matched with the financial aid programs they may qualify for, along with an estimated amount of financial aid they might expect in an academic year.

Log on to www.adhe.edu and click on the YOUiversal logo to get started. Applicants can also download the YOUiversal app for their smart phones at www.arkansas.gov.

BUT residents still have to fill out the Free Application for Federal Student Aid form to determine eligibility for Federal financial aid. Go to www.fafsa.ed.gov to fill out your form.

Applicants can begin applying for Federal Student Aid after January 1, 2013, for the 2013-2014 school year.

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.

Arkansas Colleges & Universities

Full-time tuition for public institutions is based on Arkansas Department of Higher Education estimates of 15 credit hours plus mandatory fees per semester for the 2011-2012 school year.

Full-time tuition for private institutions is based on figures from the institution's website or financial aid office. Some private institutions have set rates for each program offered.

Check with the institution for actual tuition and fees.



Arkansas Baptist College

501-370-4000

1621 Martin Luther King Drive, Little Rock, 72202

Website: www.arkansasbaptist.edu

Private: 4-year

2011-2012 Enrollment: 1,193

Annualized Tuition (12-Hours): \$7,800 (laptop fee for first-time students: \$325)

Office of Admissions: 501-244-5186, 866-920-4222

Office of Financial Aid: 501-374-0804, 501-374-6135

Student Housing: 501-244-5164

Arkansas Northeastern College

870-762-1020

P.O. Box 1109, Blytheville, 72316

Website: www.anc.edu

Public: 2-year

2011-2012 Enrollment: 1,996

Annualized Tuition: \$2,180

Admissions: 870-838-2955

Financial Aid Office: 870-762-3103

Other locations: Burdett, Leachville, Osceola, Paragould

Arkansas State University

870-972-2100

P.O. Box 1630, State University, 72467

Website: www.astate.edu

Public: 4-year

2011-2012 Enrollment: 13,900

Annualized Tuition: \$6,934

Office of Admissions: 870-972-3024, 800-382-3030, admissions@astate.edu

Financial Aid: 870-972-2310, finaid@astate.edu

Residence Life: 870-972-2042, reslife@astate.edu

Other locations: Paragould, Marked Tree

Arkansas State University at Beebe

501-882-3600

P.O. Box 1000, Beebe, 72012

Website: www.asub.edu

Public: 2-year

2011-2012 Enrollment: 4,689

Annualized Tuition: \$2,850

Office of Admissions: 501-882-8860, 800-632-9985, admissions@asub.edu

Financial Aid Office: 501-882-8845, finaid@asub.edu

Office of Student Life: 501-882-8951

Other locations: Heber Springs, Little Rock Air Force Base, Searcy

Arkansas State University at Mountain Home

870-508-6100

1600 South College Street, Mountain Home, 72653

Website: www.asumh.edu

Public: 2-year

2011-2012 Enrollment: 1,472

Annualized Tuition: \$3,030

Office of Admissions: 870-508-6104

Financial Aid Office: 870-508-6195

Other locations: Adult Education Center in Mountain Home

Arkansas State University at Newport

870-512-7800

7648 Victory Boulevard, Newport, 72112

Website: www.asun.edu

Public: 2-year

2011-2012 Enrollment: 1,963

Annualized Tuition: \$2,700

Office of Admissions: 870-512-7800, 800-976-1676

Financial Aid Office: 870-512-7713

Other locations: Marked Tree, Technical Center in Jonesboro

Arkansas Colleges & Universities

Arkansas Tech University

479-968-0389

1605 Coliseum Drive, Suite 141, Russellville, 72801

Website: www.atu.edu

Public: 4-year

2011-2012 Enrollment: 10,464

Annualized Tuition: \$6,258

Office of Admissions: 479-968-0343, 800-582-6953, tech.enroll@atu.edu

Financial Aid: 479-968-0399, fa.help@atu.edu

Office of Residential Life: 479-968-0376, residence.life@atu.edu

Other locations: Ozark

Arkansas Tech University-Ozark

866-225-2884

1700 Helberg Lane, Ozark, 72949

Website: www.atu.edu/ozark

Public: 2-year Technical

Annualized Tuition: \$2,790

Office of Student Services: 866-225-2884, ozarkadmit@atu.edu

Financial Aid: 479-667-2117

Black River Technical College

870-248-4000

P.O. Box 468, Pocahontas, 72455

Website: www.blackrivertech.edu

Public: 2-year

2011-2012 Enrollment: 2,502

Annualized Tuition: \$2,460

Admissions: 870-248-4000 ext. 4011

Financial Aid Office: 870-248-4000 exts. 4019, 4020, 4021, finaid@blackrivertech.edu

Other locations: Paragould

Central Baptist College

800-205-6872

1501 College Avenue, Conway, 72034

Website: www.cbc.edu

Private: 4-year

2011-2012 Enrollment: 858

Annualized Tuition (12-hours): \$9,510

Admissions: 501-329-6872 ext. 167

Financial Aid: 501-329-6872 exts. 185 and 197

Residence Life: Women's 501-329-6872 ext. 179, Men's 501-329-6872 ext. 182

Other locations: Camp Robinson

College of the Ouachitas

800-337-0266

One College Circle, Malvern, 72104

Website: www.coto.edu

Public: 2-year

2011-2012 Enrollment: 1,407

Annualized Tuition: \$2,402

Office of Admissions: 501-337-5000

Financial Aid: 501-337-5000, financialaid@coto.edu

Cossatot Community College of the University of Arkansas

800-844-4471

P.O. Box 960, DeQueen, 71832

Website: www.cccua.edu

Public: 2-year

2011-2012 Enrollment: 1,442

Annualized Tuition: \$2,272

Office of Admissions: 870-584-4471, admissions@cccua.edu

Office of Financial Aid: 870-584-4471 exts. 1148, 1128, 1127, and 1118, financialaid@cccua.edu

Other locations: Ashdown, Nashville

Crowley's Ridge College

800-264-1096

100 College Drive, Paragould, 72450

Website: www.crc.edu

Private: 4-year

2011-2012 Enrollment: 217

Annualized Tuition (12-Hours): \$10,250

Admissions: 870-236-6901

Financial Aid: 870-236-6901

Housing: 870-236-6901

Crowley's Ridge Technical Institute

800-842-2317

P.O. Box 925, Forrest City, 72336

Website: www.crti.tec.ar.us

Public: Technical

Annualized Tuition: Varies

Admissions: 870-633-5411

Financial Aid Office: 870-633-5411

East Arkansas Community College

870-633-4480

1700 Newcastle Road, Forrest City, 72335

Website: www.eacc.edu

Public: 2-year

2011-2012 Enrollment: 1,305

Annualized Tuition: \$2,610

Admissions Office: 870-633-4480 ext. 300

Financial Aid: 870-633-4480 ext. 225

Other locations: Wynne

Harding University

501-279-4000

P.O. Box 12255, Searcy, 72149

Website: www.harding.edu

Private: 4-year

2011-2012 Enrollment: 7,056

Annualized Tuition (15-Hours): \$14,610

Office of Admissions: 501-279-4407, 800-477-4407

Office of Student Financial Services: 501-279-4257, 800-477-3243, finaid@harding.edu

Office of Student Life/Housing: 501-279-4256, housing@harding.edu

Other locations: North Little Rock, Bentonville

Arkansas Colleges & Universities

Henderson State University

870-230-5000

Box 7560, Arkadelphia, 71999

Website: www.hsu.edu

Public: 4-year

2011-2012 Enrollment: 3,778

Annualized Tuition: \$6,714

Office of Admissions: 870-230-5028, 800-228-7333, admissions@hsu.edu

Office of Financial Aid: 870-230-5148

Residence Life: 870-230-5083, ResLife@hsu.edu

Hendrix College

800-277-9017

1600 Washington Avenue, Conway, 72032

Website: www.hendrix.edu

Private: 4-year

2011-2012 Enrollment: 1,426

Annualized Tuition: \$34,230

Office of Admissions: 501-450-1362, adm@hendrix.edu

Office of Financial Aid: 501-450-1368, student_aid@hendrix.edu

Residence Life: 501-450-1416, housing@hendrix.edu

ITT Technical Institute

800-359-4429, 501-565-5550

4520 South University Avenue, Little Rock, 72204

Website: www.itt-tech.edu

Private: 2-year Technical

Annualized Tuition: Varies

John Brown University

479-524-9500

2000 West University Street, Siloam Springs, 72761

Website: www.jbu.edu

Private: 4-year

2011-2012 Enrollment: 2,454

Annualized Tuition: \$20,766

Admissions: 877-528-4636, jbuinfo@jbu.edu

Financial Aid: 877-528-4636, finaid@jbu.edu

Residence Life: 479-524-7229, 479-524-7252

Lyon College

870-307-7000

P.O. Box 2317, Batesville, 72503

Website: www.lyon.edu

Private: 4-year

2011-2012 Enrollment: 600

Annualized Tuition: \$22,906

Admissions: 870-307-7250, 800-423-2542, admissions@lyon.edu

Financial Aid: 870-307-7256

Residence Life: 870-307-7375, residence.life@lyon.edu

Mid-South Community College

866-733-6722

2000 West Broadway Boulevard, West Memphis, 72301

Website: www.midsouthcc.edu

Public: 2-year

2011-2012 Enrollment: 2,172

Annualized Tuition: \$3,080

Office of Admissions: 870-733-6728, admissions@midsouthcc.edu

Financial Aid Office: 870-733-6729, finAid@midsouthcc.edu

National Park Community College

501-760-4222

101 College Drive, Hot Springs, 71913

Website: www.npcc.edu

Public: 2-year

2011-2012 Enrollment: 4,155

Annualized Tuition: \$2,840

Office of Admissions: 501-760-4363

Financial Aid: 501-760-4159

North Arkansas College

870-743-3000

1515 Pioneer Drive, Harrison, 72601

Website: www.northark.edu

Public: 2-year

2011-2012 Enrollment: 2,307

Annualized Tuition: \$2,700

Admissions: 870-391-3505, admissions@northark.edu

Financial Aid Office: 870-391-3266, financial-aid@northark.edu

Other locations: Berryville

Northwest Arkansas Community College

479-636-9222

One College Drive, Bentonville, 72712

Website: www.nwacc.edu

Public: 2-year

2011-2012 Enrollment: 8,528

Annualized Tuition: \$4,098

Admissions: 479-619-4386, admissions@nwacc.edu

Financial Aid Office: 479-619-4329, finaid@nwacc.edu

Other locations: Washington County, Bella Vista, and Fayetteville

Northwest Technical Institute

479-751-8824

P.O. Box 2000, Springdale, 72765

Website: www.nti.tec.ar.us

Public: Technical

Annualized Tuition: Varies

Admissions: 479-751-8824 ext. 100, info@nwti.edu

Financial Aid Office: 479-751-8824 ext. 240

Ouachita Baptist University

800-342-5628

Box 3776, Arkadelphia, 71998

Website: www.obu.edu

Private: 4-year

2011-2012 Enrollment: 1,594

Annualized Tuition: \$20,630

Admissions: 800-342-5628, admissions@obu.edu

Student Financial Services: 870-245-5570, finaid@obu.edu

Student Housing: 870-245-5220

Ozarka College

870-368-7371

P.O. Box 10, Melbourne, 72556

Website: www.ozarka.edu

Public: 2-year

2011-2012 Enrollment: 1,624

Annualized Tuition: \$2,720

Office of Admissions: 870-368-2024, admissions@ozarka.edu

Financial Aid: finaid@ozarka.edu

Other locations: Ash Flat, Mountain View, Mammoth Spring

Arkansas Colleges & Universities

Philander Smith College

501-370-5221

900 Daisy Bates Drive, Little Rock, 72202

Website: www.philandersmithadmissions.com

Private: 4-year

2011-2012 Enrollment: 732

Annualized Tuition: \$11,760

Office of Admissions: 501-370-5221,
admissions_officers@philander.edu

Financial Aid Office: 501-370-5350,
financialaid@philander.edu

Housing: 501-975-6059

Phillips Community College of the University of Arkansas

870-338-6474

P.O. Box 785, Helena, 72342

Website: www.pccua.edu

Public: 2-year

2011-2012 Enrollment: 2,213

Annualized Tuition: \$2,630

Office of Admissions: 870-338-6474 exts. 1336, 1150

Financial Aid: 870-338-6474 ext. 1258

Other locations: Stuttgart, Dewitt

Pulaski Technical College

501-812-2200

3000 West Scenic Drive, North Little Rock, 72118

Website: www.pulaskitech.edu

Public: 2-year

2011-2012 Enrollment: 11,948

Annualized Tuition: \$2,980

Office of Admissions: 501-812-2231

Office of Financial Aid: 501-812-2289, 501-812-2283

Other locations: Little Rock, Benton, Bauxite

Remington College

501-312-0007

19 Remington Drive, Little Rock, 72204

Website: www.remingtoncollege.edu

Private: 2-year

Annualized Tuition: Varies

Admissions: 501-312-0007

Financial Aid: 501-312-0007

Rich Mountain Community College

479-394-7622

1100 College Drive, Mena, 71953

Website: www.rmcc.edu

Public: 2-year

2011-2012 Enrollment: 1,108

Annualized Tuition: \$2,580

Admissions: 479-394-7622 ext. 1440

Financial Aid Office: 479-394-7622 exts. 1420, 1421, 1644

Other locations: Waldron, Mount Ida

Shorter College

501-374-6305

604 Locust Street, North Little Rock, 72114

Website: www.shortercollegearkansas.org

Private: 2-year

Annualized Tuition: \$3,100

Office of Admissions: 501-374-6305 ext. 103

Financial Aid Office: 501-374-6305 ext. 107

South Arkansas Community College

800-955-2289

300 South West Avenue, El Dorado, 71730

Website: www.southark.edu

Public: 2-year

2011-2012 Enrollment: 1,765

Annualized Tuition: \$2,890

Admissions: 870-864-7195, admissions@southark.edu

Financial Aid: 870-864-7150

Southeast Arkansas College

870-543-5900, 888-732-7582

1900 Hazel Street, Pine Bluff, 71603

Website: <https://www.seark.edu>

Public: 2-year

2011-2012 Enrollment: 2,180

Annualized Tuition: \$2,830

Office of Admissions: 870-850-8605

Financial Aid Office: 870-543-5909

Southern Arkansas University

870-235-4000

P.O. Box 9382, Magnolia, 71754

Website: www.saumag.edu

Public: 4-year

2011-2012 Enrollment: 3,382

Annualized Tuition: \$6,786

Office of Admissions: 870-235-4040, 800-332-7286,
muleriders@saumag.edu

Office of Financial Aid: 870-235-4023

Student Housing: 870-235-4047, housing@saumag.edu

Southern Arkansas University-Tech

870-574-4500

P.O. Box 3499, Camden, 71711

Website: www.sautech.edu

Public: 2-year

2011-2012 Enrollment: 2,136

Annualized Tuition: \$3,420

Office of Admissions: 870-574-4558

Financial Aid: 870-574-4511

Housing: 870-574-4519

Other locations: Fordyce, Texarkana

University of Arkansas at Fayetteville

479-575-2000

232 Silas H. Hunt Hall, 1 University of Arkansas, Fayetteville, 72701

Website: www.uark.edu

Public: 4-year

2011-2012 Enrollment: 23,199

Annualized Tuition: \$7,173

Admissions: 479-575-5346, 800-377-8632,
uofa@uark.edu

Office of Financial Aid: 479-575-3806

University Housing: 479-575-3951, housing@uark.edu

University of Arkansas at Fort Smith

479-788-7000, 888-512-5466

P.O. Box 3649, Fort Smith, 72913

Website: www.uafortsmith.edu

Public: 4-year

2011-2012 Enrollment: 7,587

Annualized Tuition: \$5,267

Office of Admissions: 479-788-7120

Financial Aid Office: 479-788-7090, finaid@uafortsmith.edu

Office of Housing: 479-788-7340, housing@uafortsmith.edu

Arkansas Colleges & Universities

University of Arkansas at Little Rock

800-482-8892

Administration South 208, 2801 South University, Little Rock, 72204

Website: www.ualr.edu

Public: 4-year

2011-2012 Enrollment: 13,068

Annualized Tuition: \$7,120

Office of Admissions: 501-569-3127,
admissions@ualr.edu

Financial Aid: 501-569-3035, financialaid@ualr.edu

Office of Student Housing: 501-661-1743, housing@ualr.edu

Other locations: Benton

University of Arkansas at Monticello

800-844-1826

Harris Hall, 1st Floor, P.O. Box 3600, Monticello, 71656

Website: www.uamont.edu

Public: 4-year

2011-2012 Enrollment: 3,920

Annualized Tuition: \$5,290

Office of Admissions: 870-460-1026

Financial Aid: 870-460-1050, 800-226-2643

Residence Life: 870-460-1045, reslife@uamont.edu

Other locations: Technology campuses in Crossett and McGehee

University of Arkansas at Monticello College of Technology Crossett

870-364-6414

Harris Hall, 1st Floor, P.O. Box 3600, Monticello, 71656

Website: www.uamont.edu/uamctc

Public: 2-year

Annualized Tuition: \$2,320

Office of Admissions: 870-460-1026, 800-844-1826

Financial Aid: 870-460-1050, 800-226-2643

University of Arkansas at Monticello College of Technology McGehee

800-747-5360

Harris Hall, 1st Floor, P.O. Box 3600, Monticello, 71656

Website: www.uamont.edu/mcgehee

Public: 2-year

Annualized Tuition: \$2,320

Office of Admissions: 870-460-1026, 800-844-1826

Financial Aid: 870-460-1050, 800-226-2643

University of Arkansas at Pine Bluff

870-575-8000

Mail Slot 4892, Pine Bluff, 71601

Website: www.uapb.edu

Public: 4-year

2011-2012 Enrollment: 3,188

Annualized Tuition: \$5,330

Admissions: 870-575-8492, 800-264-6585

Student Financial Services: 800-264-6523, finaid@uapb.edu

Residential Life: 870-575-7256

Other locations: North Little Rock

University of Arkansas Community College at Batesville

800-508-7878

P.O. Box 3350, Batesville, 72503

Website: www.uaccb.edu

Public: 2-year

2011-2012 Enrollment: 1,574

Annualized Tuition: \$2,810

Enrollment Center: 870-612-2139, enrollment@uaccb.edu

Financial Aid: 870-612-2036, financial.aid@uaccb.edu

University of Arkansas Community College at Hope

870-777-5722

P.O. Box 140, Hope, 71802

Website: www.uacch.edu

Public: 2-year

2011-2012 Enrollment: 1,376

Annualized Tuition: \$2,286

Office of Enrollment Services: 870-722-8220

Financial Aid Office: 870-722-8265

University of Arkansas Community College at Morrilton

800-264-1094

1537 University Boulevard, Morrilton, 72110

Website: www.uaccm.edu

Public: 2-year

2011-2012 Enrollment: 2,296

Annualized Tuition: \$3,300

Admissions: 501-977-2053, adm@uaccm.edu

Financial Aid Office: 501-977-2055

University of Arkansas for Medical Sciences

501-686-7000

4301 West Markham, Slot 541, Little Rock, 72205

Website: www.uams.edu

Public: 4-year

2011-2012 Enrollment: 2,819

Annualized Tuition: Varies

Admissions: 501-686-7000

Student Financial Services: 501-686-5451

Student Housing: 501-686-5850

Other locations: Teaching Centers across the state

University of Central Arkansas

501-450-5000

201 Donaghey Avenue, Bernard Hall, Suite 103, Conway, 72035

Website: www.uca.edu

Public: 4-year

2011-2012 Enrollment: 11,163

Annualized Tuition: \$7,183

Office of Admissions: 501-450-3128, 800-243-8245,
admissions@uca.edu

Office of Student Financial Aid: 501-450-3140, finaid@uca.edu

Residence Life: 501-450-3132, housing@uca.edu

University of the Ozarks

800-264-8636

415 North College Avenue, Clarksville, 72830

Website: www.ozarks.edu

Private: 4-year

2011-2012 Enrollment: 630

Annualized Tuition (12-hours): \$22,050

Office of Admissions: 800-264-8636, adm@ozarks.edu

Office of Financial Aid: 479-979-1221

Residential Life: 479-979-1322

Williams Baptist College

870-886-6741

P.O. Box 3737, Walnut Ridge, 72476

Website: www.williamsbaptistcollege.com

Private: 4-year

2011-2012 Enrollment: 591

Annualized Tuition: \$12,620

Office of Admissions: 870-759-4120, 800-722-4434,
admissions@wbcoll.edu

Office of Financial Aid: 870-759-4112, financialaid@wbcoll.edu

Office of Housing: 870-759-4302

So, you wanna be a...

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 of 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, as there are more than 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 the "Occupations" link.

2012-2013 Occupations and Careers

Occupation

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

Job Outlook

The first row in this column shows an estimate of the total number of workers in the occupation in Arkansas.

The second row shows an estimate of the number of openings expected each year in Arkansas for the occupation. The Arkansas Labor Market Information Section bases both the growth rate and annual openings data on occupational projections.

The third row shows an estimate of the rate of growth for the occupation in Arkansas. Above average is more than 5 percent, average is between 2 and 5 percent, below average is between 0 and 2 percent and decline is below 0 percent.

AA – Above Average

A – Average

BA – Below Average

D – Decline

Education

This column lists education/work experience in a related occupation/training 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.

Education Required - First Row

Doctoral or professional degree (D) – Requires at least three years of full-time academic study beyond a bachelor's degree.

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

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

Associate degree (A) – Requires at least two years of full-time academic study.

Postsecondary non-degree award (PS) – Programs last a few weeks to more than a year; leads to a certificate or other award.

Some college, no degree (SC) – Requires the completion of a

high school diploma or equivalent plus the completion of one or more postsecondary courses that did not result in a degree or award.

High School diploma or equivalent (HS) – Requires the completion of high school or an equivalent program resulting in the award of a high school diploma or an equivalent, such as a GED.

Less than high school (LHS) – Signifies the completion of any level of primary or secondary education that did not result in the award of a high school diploma or an equivalent.

Work experience in a related occupation - Second Row

Requires experience in a related occupation by length of time (years) spent gaining related work experience.

5+

1 to 5

-1

None

On-the-job training - Third Row

Internship/residency (I/R) – Training that involves preparation in a field such as medicine or teaching, generally under supervision in a professional setting.

Apprenticeship (App) – A formal relationship between a worker and sponsor that consists of a combination of on-the-job training and related occupation-specific technical instruction.

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

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

Short-term on-the-job training (SOJT) – Requires a short demonstration of job duties or one month or less of on-the-job experience and informal training.

Estimated Earnings

This column shows an estimated mean hourly wage and annual salary in Arkansas for the occupation. This data is based on an semi-annual wage survey conducted by the Arkansas Labor Market Information Section. 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

Occupation	Job Outlook	Education	Earnings
Accountants and Auditors - 13-2011 - Examine, analyze, and interpret accounting records to prepare financial statements, give advice, or audit and evaluate statements prepared by others. Install or advise on systems of recording costs or other financial and budgetary data.	6,418 208 A	B None None	\$28.42 \$59,100
Actors - 27-2011 - Play parts in stage, television, radio, video, motion picture productions, or other settings for entertainment, information, or instruction. Interpret serious or comic role by speech, gesture, and body movement to entertain or inform audience. May dance and sing.	79 3 A	SC None LOJT	N/A
Actuaries - 15-2011 - Analyze statistical data, such as mortality, accident, sickness, disability, and retirement rates and construct probability tables to forecast risk and liability for payment of future benefits. May ascertain insurance rates required and cash reserves necessary to ensure payment of future benefits.	43 1 A	B None LOJT	\$33.72 \$70,140
Adhesive Bonding Machine Operators and Tenders - 51-9191 - Operate or tend bonding machines that use adhesives to join items for further processing or to form a completed product.	594 8 D	HS None MOJT	\$16.35 \$34,000
Administrative Law Judges, Adjudicators, and Hearing Officers - 23-1021 - Conduct hearings to recommend or make decisions on claims concerning government programs or other government-related matters.	474 10 BA	B 1 to 5 MOJT	\$31.33 \$65,160
Administrative Services Managers - 11-3011 - Plan, direct, or coordinate one or more administrative services of an organization, such as records and information management, mail distribution, facilities planning and maintenance, custodial operations, and other office support services.	2,725 70 BA	HS 1 to 5 None	\$35.13 \$73,070
Adult Basic and Secondary Education and Literacy Teachers and Instructors - 25-3011 - Teach or instruct out-of-school youths and adults in remedial education classes, preparatory classes for the General Educational Development test, literacy, or English as a Second Language. Teaching may or may not take place in a traditional educational institution.	1,133 27 BA	B None I/R	\$22.78 \$47,370
Advertising and Promotions Managers - 11-2011 - Plan, direct, or coordinate 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.	146 6 A	B 1 to 5 None	\$36.80 \$76,540
Advertising Sales Agents - 41-3011 - Sell or solicit advertising space, time, or media in publications, signage, TV, radio, or Internet establishments or public spaces.	1,256 37 D	HS None MOJT	\$20.54 \$42,730
Aerospace Engineers - 17-2011 - Perform engineering duties in designing, constructing, and testing aircraft, missiles, and spacecraft. May conduct basic and applied research to evaluate adaptability of materials and equipment to aircraft design and manufacture. May recommend improvements in testing equipment and techniques.	188 10 AA	B None None	\$33.85 \$70,400
Agricultural and Food Science Technicians - 19-4011 - Work with agricultural and food scientists in food, fiber, and animal research, production, and processing; and assist with animal breeding and nutrition.	454 17 BA	A None None	\$17.69 \$36,790
Agricultural Equipment Operators - 45-2091 - Drive and control farm equipment to till soil and to plant, cultivate, and harvest crops. May perform tasks, such as crop baling or hay bucking. May operate stationary equipment to perform post-harvest tasks, such as husking, shelling, threshing, and ginning.	986 32 D	LHS -1 SOJT	\$10.93 \$22,730
Agricultural Inspectors - 45-2011 - Inspect agricultural commodities, processing equipment, and facilities, and fish and logging operations, to ensure compliance with regulations and laws governing health, quality, and safety.	470 12 D	B None MOJT	\$19.92 \$41,440
Aircraft Cargo Handling Supervisors - 53-1011 - Supervise and coordinate the activities of ground crew in the loading, unloading, securing, and staging of aircraft cargo or baggage.	37 2 AA	HS 1 to 5 None	\$25.29 \$52,600
Aircraft Mechanics and Service Technicians - 49-3011 - Diagnose, adjust, repair, or overhaul aircraft engines and assemblies, such as hydraulic and pneumatic systems.	796 70 AA	PS None None	\$21.59 \$44,900
Ambulance Drivers and Attendants, Except Emergency Medical Technicians - 53-3011 - Drive ambulance or assist ambulance driver in transporting sick, injured, or convalescent persons. Assist in lifting patients.	99 3 A	HS None MOJT	\$14.62 \$30,410
Anesthesiologists - 29-1061 - Physicians who administer anesthetics prior to, during, or after surgery, or other medical procedures.	137 2 BA	D None I/R	\$117.85 \$245,120
Animal Control Workers - 33-9011 - Handle animals for the purpose of investigations of mistreatment, or control of abandoned, dangerous, or unattended animals.	178 6 BA	HS None MOJT	\$13.14 \$27,340
Animal Scientists - 19-1011 - Conduct research in the genetics, nutrition, reproduction, growth, and development of domestic farm animals.	75 3 D	D None None	\$26.51 \$55,140
Animal Trainers - 39-2011 - Train animals for riding, harness, security, performance, or obedience, or assisting persons with disabilities. Accustom animals to human voice and contact; and condition animals to respond to commands.	492 4 D	HS None MOJT	\$14.29 \$29,720
Anthropologists and Archeologists - 19-3091 - Study the origin, development, and behavior of human beings. May study the way of life, language, or physical characteristics of people in various parts of the world.	61 4 A	M None None	\$32.77 \$68,160
Appraisers and Assessors of Real Estate - 13-2021 - Appraise real property and estimate its fair value. May assess taxes in accordance with prescribed schedules.	1,145 28 BA	HS None App	\$17.15 \$35,670
Arbitrators, Mediators, and Conciliators - 23-1022 - Facilitate negotiation and conflict resolution through dialogue. Resolve conflicts outside of the court system by mutual consent of parties involved.	20 0 BA	B 1 to 5 MOJT	\$18.65 \$38,790
Architects, Except Landscape and Naval - 17-1011 - Plan and design structures, such as private residences, office buildings, theaters, factories, and other structural property.	908 28 A	B None I/R	\$31.70 \$65,950
Architectural and Civil Drafters - 17-3011 - 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. Use knowledge of building materials, engineering practices, and mathematics to complete drawings.	620 12 D	A None None	\$21.63 \$44,990

Occupation	Job Outlook	Education	Earnings
Architectural and Engineering Managers - 11-9041 - Plan, direct, or coordinate activities in such fields as architecture and engineering or research and development in these fields.	673 20 A	B 5+ None	\$46.61 \$96,940
Archivists - 25-4011 - Appraise, edit, and direct safekeeping of permanent records and historically valuable documents. Participate in research activities based on archival materials.	70 4 A	B None None	\$21.18 \$44,060
Art Directors - 27-1011 - Formulate design concepts and presentation approaches for visual communications media, such as print, broadcasting, and advertising. Direct workers engaged in art work or layout design.	269 6 D	B 1 to 5 None	\$24.25 \$50,440
Atmospheric and Space Scientists - 19-2021 - Investigate atmospheric phenomena and interpret meteorological data, gathered by surface and air stations, satellites, and radar to prepare reports and forecasts for public and other uses. Includes weather analysts and forecasters whose functions require the detailed knowledge of meteorology.	34 0 BA	B None None	\$36.88 \$76,700
Audiologists - 29-1181 - Assess and treat persons with hearing and related disorders. May fit hearing aids and provide auditory training. May perform research related to hearing problems.	71 0 BA	D None None	\$32.97 \$68,570
Audio-Visual and Multimedia Collections Specialists - 25-9011 - Prepare, plan, and operate multimedia teaching aids for use in education. May record, catalogue, and file materials.	52 2 A	B 1 to 5 None	\$20.45 \$42,530
Automotive Body and Related Repairers - 49-3021 - Repair and refinish automotive vehicle bodies and straighten vehicle frames.	1,410 35 BA	HS None MOJT	\$17.47 \$36,340
Automotive Glass Installers and Repairers - 49-3022 - Replace or repair broken windshields and window glass in motor vehicles.	367 11 BA	HS None MOJT	\$12.94 \$26,900
Automotive Service Technicians and Mechanics - 49-3023 - Diagnose, adjust, repair, or overhaul automotive vehicles.	5,751 180 BA	HS None LOJT	\$16.12 \$33,530
Avionics Technicians - 49-2091 - Install, inspect, test, adjust, or repair avionics equipment, such as radar, radio, navigation, and missile control systems in aircraft or space vehicles.	120 6 AA	PS None None	\$22.95 \$47,740
Bakers - 51-3011 - Mix and bake ingredients to produce breads, rolls, cookies, cakes, pies, pastries, or other baked goods.	967 36 BA	LHS None LOJT	\$9.87 \$20,540
Bill and Account Collectors - 43-3011 - Locate and notify customers of delinquent accounts by mail, telephone, or personal visit to solicit payment.	2,700 68 BA	HS None MOJT	\$14.47 \$30,090
Billing and Posting Clerks - 43-3021 - 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.	3,987 93 BA	HS None SOJT	\$13.73 \$28,550
Biological Technicians - 19-4021 - Assist biological and medical scientists in laboratories. Set up, operate, and maintain laboratory instruments and equipment, monitor experiments, make observations, and calculate and record results. May analyze organic substances, such as blood, food, and drugs.	245 8 BA	B None None	\$17.65 \$36,710
Biomedical Engineers - 17-2031 - Apply knowledge of engineering, biology, and biomechanical principles to the design, development, and evaluation of biological and health systems and products, such as artificial organs, prostheses, instrumentation, medical information systems, and health management and care delivery systems.	23 1 AA	B None None	\$28.16 \$58,570
Boilermakers - 47-2011 - Construct, assemble, maintain, and repair stationary steam boilers and boiler house auxiliaries. Align structures or plate sections to assemble boiler frame tanks or vats, following blueprints. Work involves use of hand and power tools, plumb bobs, levels, wedges, dogs, or turnbuckles.	62 2 BA	HS None App	\$22.00 \$45,750
Bookkeeping, Accounting, and Auditing Clerks - 43-3031 - 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.	14,999 245 BA	HS None MOJT	\$15.19 \$31,600
Brickmasons and Blockmasons - 47-2021 - 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.	591 12 D	HS None App	\$19.04 \$39,600
Bridge and Lock Tenders - 53-6011 - Operate and tend bridges, canal locks, and lighthouses to permit marine passage on inland waterways, near shores, and at danger points in waterway passages. May supervise such operations. Includes drawbridge operators, lock operators, and slip bridge operators.	75 2 D	LHS None SOJT	\$21.16 \$44,010
Broadcast News Analysts - 27-3021 - Analyze, interpret, and broadcast news received from various sources.	60 2 BA	B None None	\$24.67 \$51,320
Broadcast Technicians - 27-4012 - 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 transmitter to broadcast radio or television programs.	226 7 BA	A None SOJT	\$15.55 \$32,340
Budget Analysts - 13-2031 - Examine budget estimates for completeness, accuracy, and conformance with procedures and regulations. Analyze budgeting and accounting reports.	573 17 A	B None None	\$23.76 \$49,420
Bus and Truck Mechanics and Diesel Engine Specialists - 49-3031 - Diagnose, adjust, repair, or overhaul buses and trucks, or maintain and repair any type of diesel engines. Includes mechanics working primarily with automobile or marine diesel engines.	3,136 72 BA	HS None LOJT	\$16.78 \$34,900
Bus Drivers, School or Special Client - 53-3022 - 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.	5,332 92 D	HS None MOJT	\$12.09 \$25,150
Bus Drivers, Transit and Intercity - 53-3021 - Drive bus or motor coach, including regular route operations, charters, and private carriage. May assist passengers with baggage. May collect fares or tickets.	254 6 BA	HS None MOJT	\$12.98 \$27,000

Occupation	Job Outlook	Education	Earnings
Buyers and Purchasing Agents, Farm Products - 13-1021 - Purchase farm products either for further processing or resale. Includes tree farm contractors, grain brokers and market operators, grain buyers, and tobacco buyers.	213 4 BA	HS None LOJT	\$28.53 \$59,340
Camera Operators, Television, Video, and Motion Picture - 27-4031 - Operate television, video, or motion picture camera to record images or scenes for various purposes, such as TV broadcasts, advertising, video production, or motion pictures.	69 1 D	B None MOJT	\$15.30 \$31,820
Cardiovascular Technologists and Technicians - 29-2031 - Conduct tests on pulmonary or cardiovascular systems of patients for diagnostic purposes. May conduct or assist in electrocardiograms, cardiac catheterizations, pulmonary functions, lung capacity, and similar tests.	320 8 A	A None None	\$21.61 \$44,950
Career/Technical Education Teachers, Secondary School - 25-2032 - Teach occupational, career and technical, or vocational subjects at the secondary school level in public or private schools.	1,374 38 D	B 1 to 5 I/R	N/A \$49,350
Cargo and Freight Agents - 43-5011 - Expedite and route movement of incoming and outgoing cargo and freight shipments in airline, train, and trucking terminals, and shipping docks. Take orders from customers and arrange pickup of freight and cargo for delivery to loading platform. Prepare and examine bills of lading to determine shipping charges and tariffs.	802 34 A	HS None SOJT	\$19.55 \$40,660
Carpenters - 47-2031 - Construct, erect, install, or repair structures and fixtures made of wood, such as concrete forms; building frameworks, including partitions, joists, studding, and rafters; and wood stairways, window and door frames, and hardwood floors.	4,934 99 D	HS None App	\$16.33 \$33,970
Carpet Installers - 47-2041 - Lay and install carpet from rolls or blocks on floors. Install padding and trim flooring materials.	223 5 D	LHS None SOJT	\$14.33 \$29,810
Cartographers and Photogrammetrists - 17-1021 - Collect, analyze, and interpret geographic information provided by geodetic surveys, aerial photographs, and satellite data. Research, study, and prepare maps and other spatial data in digital or graphic form for legal, social, political, educational, and design purposes.	117 2 BA	B None None	\$22.19 \$46,150
Cashiers - 41-2011 - Receive and disburse money in establishments other than financial institutions. May use electronic scanners, cash registers, or related equipment. May process credit or debit card transactions and validate checks.	29,324 1,826 BA	LHS None SOJT	\$8.84 \$18,380
Cement Masons and Concrete Finishers - 47-2051 - Smooth and finish surfaces of poured concrete, such as floors, walks, sidewalks, roads, or curbs using a variety of hand and power tools. Align forms for sidewalks, curbs, or gutters; patch voids; and use saws to cut expansion joints.	969 14 D	LHS None MOJT	\$15.10 \$31,410
Chefs and Head Cooks - 35-1011 - Direct and may participate in 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.	468 8 D	HS 1 to 5 None	\$22.15 \$46,070
Chemical Engineers - 17-2041 - 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.	152 8 AA	B None None	\$38.48 \$80,040
Chemical Equipment Operators and Tenders - 51-9011 - Operate or tend equipment to control chemical changes or reactions in the processing of industrial or consumer products. Equipment used includes devulcanizers, steam-jacketed kettles, and reactor vessels.	506 24 AA	HS None MOJT	\$19.36 \$40,280
Chemists - 19-2031 - Conduct qualitative and quantitative chemical analyses or experiments in laboratories for quality or process control or to develop new products or knowledge.	354 18 A	B None None	\$32.64 \$67,890
Chief Executives - 11-1011 - Determine and formulate policies and provide overall direction of companies or private and public sector organizations within guidelines set up by a board of directors or similar governing body.	3,150 81 BA	B 5+ None	\$71.22 \$148,140
Childcare Workers - 39-9011 - Attend to children at schools, businesses, private households, and childcare institutions. Perform a variety of tasks, such as dressing, feeding, bathing, and overseeing play.	9,813 460 A	HS None SOJT	\$8.60 \$17,890
Child, Family, and School Social Workers - 21-1021 - 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.	1,520 46 BA	B None None	\$17.54 \$36,480
Chiropractors - 29-1011 - Assess, treat, and care for patients by manipulation of spine and musculoskeletal system. May provide spinal adjustment or address sacral or pelvic misalignment.	496 19 A	D None None	\$39.78 \$82,750
Civil Engineering Technicians - 17-3022 - 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.	328 8 BA	A None None	\$20.32 \$42,270
Civil Engineers - 17-2051 - 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, and water and sewage systems.	1,390 34 BA	B None None	\$34.64 \$72,050
Claims Adjusters, Examiners, and Investigators - 13-1031 - Review settled claims to determine that payments and settlements are made in accordance with company practices and procedures. Confer with legal counsel on claims requiring litigation. May also settle insurance claims.	1,958 55 BA	HS None LOJT	\$27.32 \$56,820
Cleaners of Vehicles and Equipment - 53-7061 - Wash or otherwise clean vehicles, machinery, and other equipment. Use such materials as water, cleaning agents, brushes, cloths, and hoses.	3,768 134 D	LHS None SOJT	\$10.22 \$21,260
Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders - 51-9192 - Operate or tend machines to wash or clean products, such as barrels or kegs, glass items, tin plate, food, pulp, coal, plastic, or rubber, to remove impurities.	85 2 D	LHS None MOJT	\$12.10 \$25,160
Clergy - 21-2011 - 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.	2,410 60 BA	B None MOJT	\$18.29 \$38,050
Clinical, Counseling, and School Psychologists - 19-3031 - 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.	709 34 A	D None I/R	\$33.13 \$68,920

Occupation	Job Outlook	Education	Earnings
Coaches and Scouts - 27-2022 - Instruct or coach groups or individuals in the fundamentals of sports. Demonstrate techniques and methods of participation. May evaluate athletes' strengths and weaknesses as possible recruits or to improve the athletes' technique to prepare them for competition.	1,463 78 AA	HS None LOJT	\$48,870
Coating, Painting, and Spraying Machine Setters, Operators, and Tenders - 51-9121 - Set up, operate, or tend machines to coat or paint any of a wide variety of products including, glassware, cloth, ceramics, metal, plastic, paper, or wood, with lacquer, silver, copper, rubber, varnish, glaze, enamel, oil, or rust-proofing materials.	797 16 D	HS None MOJT	\$14.86 \$30,900
Coil Winders, Tapers, and Finishers - 51-2021 - Wind wire coils used in electrical components, such as resistors and transformers, and in electrical equipment and instruments, such as field cores, bobbins, armature cores, electrical motors, generators, and control equipment.	420 6 D	HS None SOJT	\$15.24 \$31,700
Coin, Vending, and Amusement Machine Servicers and Repairers - 49-9091 - Install, service, adjust, or repair coin, vending, or amusement machines including video games, juke boxes, pinball machines, or slot machines.	372 8 D	HS None SOJT	\$13.67 \$28,440
Combined Food Preparation and Serving Workers, Including Fast Food - 35-3021 - Perform duties which combine preparing and serving food and nonalcoholic beverages.	21,897 1,547 AA	LHS None SOJT	\$8.27 \$17,210
Commercial and Industrial Designers - 27-1021 - Develop and design manufactured products, such as cars, home appliances, and children's toys.	143 5 BA	B None None	\$23.23 \$48,310
Compensation and Benefits Managers - 11-3111 - Plan, direct, or coordinate compensation and benefits activities of an organization.	173 4 D	B 1 to 5 None	\$50.63 \$105,300
Compensation, Benefits, and Job Analysis Specialists - 13-1141 - Conduct programs of compensation and benefits and job analysis for employer. May specialize in specific areas, such as position classification and pension programs.	1,014 21 BA	B None None	\$22.59 \$46,990
Compliance Officers - 13-1041 - Examine, evaluate, and investigate eligibility for or conformity with laws and regulations governing contract compliance of licenses and permits, and perform other compliance and enforcement inspection and analysis activities not classified elsewhere.	1,955 42 A	B None MOJT	\$24.58 \$51,130
Computer and Information Systems Managers - 11-3021 - Plan, direct, or coordinate activities in such fields as electronic data processing, information systems, systems analysis, and computer programming.	1,525 34 A	B 5+ None	\$49.36 \$102,670
Computer Hardware Engineers - 17-2061 - Research, design, develop, or test computer or computer-related equipment for commercial, industrial, military, or scientific use.	134 7 AA	B None None	\$37.92 \$78,870
Computer Operators - 43-9011 - Monitor and control electronic computer and peripheral electronic data processing equipment to process business, scientific, engineering, and other data according to operating instructions.	998 11 D	HS None MOJT	\$15.89 \$33,060
Computer Programmers - 15-1131 - Create, modify, and test the code, forms, and script that allow computer applications to run. Work from specifications drawn up by software developers or other individuals.	3,909 116 BA	B None None	\$32.02 \$66,600
Computer Systems Analysts - 15-1121 - Analyze science, engineering, business, and other data processing problems to implement and improve computer systems.	2,302 72 A	B None None	\$31.27 \$65,030
Computer, Automated Teller, and Office Machine Repairers - 49-2011 - Repair, maintain, or install computers, word processing systems, automated teller machines, and electronic office machines, such as duplicating and fax machines.	1,451 41 BA	PS None None	\$15.83 \$32,920
Computer-Controlled Machine Tool Operators, Metal and Plastic - 51-4011 - Operate computer-controlled machines or robots to perform one or more machine functions on metal or plastic work pieces.	2,182 113 AA	HS None MOJT	\$17.43 \$36,260
Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic - 51-4012 - Develop programs to control machining or processing of metal or plastic parts by automatic machine tools, equipment, or systems.	43 1 A	HS None MOJT	\$20.52 \$42,680
Conservation Scientists - 19-1031 - 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.	189 2 D	B None None	\$30.94 \$64,350
Construction and Building Inspectors - 47-4011 - Inspect structures using engineering skills to determine structural soundness and compliance with specifications, building codes, and other regulations.	806 28 BA	HS 5+ MOJT	\$22.19 \$46,160
Construction Laborers - 47-2061 - Perform tasks involving physical labor at construction sites. May operate hand and power tools of all types: air hammers, earth tampers, cement mixers, small mechanical hoists, surveying and measuring equipment, and a variety of other equipment and instruments.	9,618 78 BA	LHS None SOJT	\$12.10 \$25,170
Construction Managers - 11-9021 - Plan, direct, or coordinate, usually through subordinate supervisory personnel, activities concerned with the construction and maintenance of structures, facilities, and systems.	4,250 42 BA	A 5+ None	\$32.27 \$67,120
Continuous Mining Machine Operators - 47-5041 - Operate self-propelled mining machines that rip coal, metal and nonmetal ores, rock, stone, or sand from the mine face and load it onto conveyors or into shuttle cars in a continuous operation.	71 6 AA	HS None MOJT	\$18.52 \$38,520
Control and Valve Installers and Repairers, Except Mechanical Door - 49-9012 - Install, repair, and maintain mechanical regulating and controlling devices, such as electric meters, gas regulators, thermostats, safety and flow valves, and other mechanical governors.	654 11 D	HS None MOJT	\$18.81 \$39,130
Conveyor Operators and Tenders - 53-7011 - 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.	538 16 D	LHS None SOJT	\$11.93 \$24,810
Cooks, Fast Food - 35-2011 - Prepare and cook food in a fast food restaurant with a limited menu. Duties of these cooks are limited to preparation of a few basic items and normally involve operating large-volume single-purpose cooking equipment.	10,174 428 A	LHS None SOJT	\$8.33 \$17,320

Occupation	Job Outlook	Education	Earnings
Cooks, Institution and Cafeteria - 35-2012 - Prepare and cook large quantities of food for institutions, such as schools, hospitals, or cafeterias.	7,706 173 D	LHS None SOJT	\$9.69 \$20,150
Cooks, Restaurant - 35-2014 - Prepare, season, and cook dishes such as soups, meats, vegetables, or desserts in restaurants. May order supplies, keep records and accounts, price items on menu, or plan menu.	6,926 204 BA	LHS -1 MOJT	\$9.11 \$18,940
Cooks, Short Order - 35-2015 - Prepare and cook to order a variety of foods that require only a short preparation time. May take orders from customers and serve patrons at counters or tables.	842 23 BA	LHS None SOJT	\$8.50 \$17,670
Cooling and Freezing Equipment Operators and Tenders - 51-9193 - Operate or tend equipment, such as cooling and freezing units, refrigerators, batch freezers, and freezing tunnels, to cool or freeze products, food, blood plasma, and chemicals.	472 11 D	HS None MOJT	\$11.28 \$23,460
Correctional Officers and Jailers - 33-3012 - Guard inmates in penal or rehabilitative institutions 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.	5,482 92 BA	HS None MOJT	\$15.03 \$31,260
Cost Estimators - 13-1051 - Prepare cost estimates for product manufacturing, construction projects, or services to aid management in bidding on or determining price of product or service. May specialize according to particular service performed or type of product manufactured.	873 23 BA	B None None	\$25.55 \$53,140
Couriers and Messengers - 43-5021 - Pick up and deliver messages, documents, packages, and other items between offices or departments within an establishment or directly to other business concerns, traveling by foot, bicycle, motorcycle, automobile, or public conveyance.	642 20 BA	HS None SOJT	\$11.59 \$24,100
Court Reporters - 23-2091 - Use verbatim methods and equipment to capture, store, retrieve, and transcribe pretrial and trial proceedings or other information. Includes stenocaptioners who operate computerized stenographic captioning equipment to provide captions of live or prerecorded broadcasts for hearing-impaired viewers.	296 9 A	PS None SOJT	\$17.83 \$37,080
Court, Municipal, and License Clerks - 43-4031 - Perform clerical duties for courts of law, municipalities, or governmental licensing agencies and bureaus.	1,095 36 BA	HS None MOJT	\$13.05 \$27,150
Craft Artists - 27-1012 - Create or reproduce hand-made objects for sale and exhibition using a variety of techniques, such as welding, weaving, pottery, and needlecraft.	36 1 BA	HS None LOJT	\$11.21 \$23,320
Crane and Tower Operators - 53-7021 - Operate mechanical boom and cable or tower and cable equipment to lift and move materials, machines, or products in many directions.	750 29 A	LHS 1 to 5 LOJT	\$16.03 \$33,330
Credit Analysts - 13-2041 - Analyze credit data and financial statements of individuals or firms to determine the degree of risk involved in extending credit or lending money. Prepare reports with credit information for use in decision making.	216 4 BA	B None None	\$23.18 \$48,210
Credit Authorizers, Checkers, and Clerks - 43-4041 - Authorize credit charges against customers' accounts. Investigate history and credit standing of individuals or business establishments applying for credit. May interview applicants to obtain personal and financial data; determine credit worthiness; process applications; and notify customers of acceptance or rejection of credit.	186 6 D	HS None SOJT	\$17.23 \$35,840
Credit Counselors - 13-2071 - Advise and educate individuals or organizations on acquiring and managing debt. May provide guidance in determining the best type of loan and explaining loan requirements or restrictions. May help develop debt management plans, advise on credit issues, or provide budget, mortgage, and bankruptcy counseling.	59 4 AA	B None MOJT	\$19.10 \$39,740
Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders - 51-9021 - Set up, operate, or tend machines to crush, grind, or polish materials, such as coal, glass, grain, stone, food, or rubber.	513 16 D	HS None MOJT	\$13.53 \$28,150
Curators - 25-4012 - Administer collections, such as artwork, collectibles, historic items, or scientific specimens of museums or other institutions. May conduct instructional, research, or public service activities of institution.	54 6 AA	M None None	\$19.93 \$41,450
Customer Service Representatives - 43-4051 - Interact with customers to provide information in response to inquiries about products and services and to handle and resolve complaints. Excludes individuals whose duties are primarily installation, sales, or repair.	16,385 756 A	HS None SOJT	\$13.79 \$28,680
Cutters and Trimmers, Hand - 51-9031 - 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.	58 2 D	LHS None SOJT	\$13.38 \$27,840
Cutting and Slicing Machine Setters, Operators, and Tenders - 51-9032 - Set up, operate, or tend machines that cut or slice materials, such as glass, stone, cork, rubber, tobacco, food, paper, or insulating material.	1,402 40 BA	HS None SOJT	\$17.30 \$35,980
Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic - 51-4031 - Set up, operate, or tend machines to saw, cut, shear, slit, punch, crimp, notch, bend, or straighten metal or plastic material.	2,390 20 D	HS None MOJT	\$14.62 \$30,410
Data Entry Keyers - 43-9021 - Operate data entry device, such as keyboard or photo composing perforator. Duties may include verifying data and preparing materials for printing.	2,157 40 D	HS None MOJT	\$13.25 \$27,550
Database Administrators - 15-1141 - Administer, test, and implement computer databases, applying knowledge of database management systems. Coordinate changes to computer databases. May plan, coordinate, and implement security measures to safeguard computer databases.	1,074 47 AA	B 1 to 5 None	\$31.68 \$65,900
Demonstrators and Product Promoters - 41-9011 - Demonstrate merchandise and answer questions for the purpose of creating public interest in buying the product. May sell demonstrated merchandise.	373 21 AA	HS None SOJT	\$12.71 \$26,430
Dental Assistants - 31-9091 - Assist dentist, set up equipment, prepare patient for treatment, and keep records.	960 28 A	PS None None	\$13.72 \$28,550
Dental Hygienists - 29-2021 - 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.	1,219 54 AA	A None None	\$29.03 \$60,380

Occupation	Job Outlook	Education	Earnings
Dental Laboratory Technicians - 51-9081 - Construct and repair full or partial dentures or dental appliances.	465 18 BA	HS None MOJT	\$16.92 \$35,200
Dentists, General - 29-1021 - Examine, diagnose, and treat diseases, injuries, and malformations of teeth and gums. May treat diseases of nerve, pulp, and other dental tissues affecting oral hygiene and retention of teeth. May fit dental appliances or provide preventive care.	1,200 54 A	D None I/R	\$83.13 \$172,920
Derrick Operators, Oil and Gas - 47-5011 - Rig derrick equipment and operate pumps to circulate mud through drill hole.	690 35 AA	LHS None SOJT	\$20.04 \$41,670
Desktop Publishers - 43-9031 - Format typescript and graphic elements using computer software to produce publication-ready material.	137 2 D	A None SOJT	\$14.95 \$31,090
Detectives and Criminal Investigators - 33-3021 - Conduct investigations related to suspected violations of Federal, State, or local laws to prevent or solve crimes.	602 13 BA	HS 1 to 5 MOJT	\$25.00 \$52,010
Diagnostic Medical Sonographers - 29-2032 - Produce ultrasonic recordings of internal organs for use by physicians.	354 12 A	A None None	\$27.99 \$58,210
Dietetic Technicians - 29-2051 - Assist in the provision of food service and nutritional programs, under the supervision of a dietitian. May plan and produce meals based on established guidelines, teach principles of food and nutrition, or counsel individuals.	190 6 A	HS None MOJT	\$11.28 \$23,460
Dietitians and Nutritionists - 29-1031 - Plan and conduct food service or nutritional programs to assist in the promotion of health and control of disease. May supervise activities of a department providing quantity food services, counsel individuals, or conduct nutritional research.	505 21 BA	B None I/R	\$24.38 \$50,700
Dining Room and Cafeteria Attendants and Bartender Helpers - 35-9011 - Facilitate food service. Clean tables, remove dirty dishes, replace soiled table linens; set tables; replenish supply of clean linens, silverware, glassware, and dishes; supply service bar with food; and serve items such as water, condiments, and coffee to patrons.	1,875 100 BA	LHS None SOJT	\$8.70 \$18,090
Directors, Religious Activities and Education - 21-2021 - Plan, direct, or coordinate programs designed to promote the religious education or activities of a denominational group. May provide counseling and guidance relative to marital, health, financial, and religious problems.	1,312 36 A	B 1 to 5 None	\$23.48 \$48,840
Dishwashers - 35-9021 - Clean dishes, kitchen, food preparation equipment, or utensils.	3,876 256 BA	LHS None SOJT	\$8.45 \$17,580
Dispatchers, Except Police, Fire, and Ambulance - 43-5032 - 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.	1,770 36 BA	HS None MOJT	\$16.57 \$34,460
Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic - 51-4032 - Set up, operate, or tend drilling machines to drill, bore, ream, mill, or countersink metal or plastic work pieces.	247 2 D	HS None MOJT	\$13.99 \$29,090
Driver/Sales Workers - 53-3031 - Drive truck or other vehicle over established routes or within an established territory and sell or deliver goods, such as food products, including restaurant take-out items, or pick up or deliver items such as commercial laundry. May also take orders, collect payment, or stock merchandise at point of delivery.	3,972 74 D	HS None SOJT	\$14.72 \$30,620
Drywall and Ceiling Tile Installers - 47-2081 - Apply plasterboard or other wallboard to ceilings or interior walls of buildings. Apply or mount acoustical tiles or blocks, strips, or sheets of shock-absorbing materials to ceilings and walls of buildings to reduce or reflect sound.	676 18 D	LHS None MOJT	\$14.79 \$30,750
Earth Drillers, Except Oil and Gas - 47-5021 - 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.	139 4 A	HS None MOJT	\$22.34 \$46,470
Economists - 19-3011 - Conduct research, prepare reports, or formulate plans to address economic problems related to the production and distribution of goods and services or monetary and fiscal policy. May collect and process economic and statistical data using sampling techniques and econometric methods.	104 5 BA	B None None	\$30.53 \$63,500
Editors - 27-3041 - Plan, coordinate, or edit content of material for publication. May review proposals and drafts for possible publication. Includes technical editors.	951 28 D	B 1 to 5 None	\$22.03 \$45,820
Education Administrators, Elementary and Secondary School - 11-9032 - Plan, direct, or coordinate the academic, administrative, or auxiliary activities of public or private elementary or secondary level schools.	2,313 66 BA	M 1 to 5 None	N/A \$77,060
Education Administrators, Preschool and ChildCare Center/Program - 11-9031 - Plan, direct, or coordinate the academic and nonacademic activities of preschool and childcare centers or programs.	749 30 A	B 1 to 5 None	\$19.76 \$41,100
Educational, Guidance, School, and Vocational Counselors - 21-1012 - Counsel individuals and provide group educational and vocational guidance services.	2,427 78 A	M None None	\$25.67 \$53,390
Electric Motor, Power Tool, and Related Repairers - 49-2092 - Repair, maintain, or install electric motors, wiring, or switches.	215 2 D	PS None LOJT	\$21.13 \$43,950
Electrical and Electronic Engineering Technicians - 17-3023 - 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.	556 14 BA	A None None	\$24.04 \$50,010
Electrical and Electronic Equipment Assemblers - 51-2022 - Assemble or modify electrical or electronic equipment, such as computers, test equipment telemetering systems, electric motors, and batteries.	725 22 A	HS None SOJT	\$13.92 \$28,950
Electrical and Electronics Drafters - 17-3012 - Prepare wiring diagrams, circuit board assembly diagrams, and layout drawings used for the manufacture, installation, or repair of electrical equipment.	116 2 D	A None None	\$22.22 \$46,220

Occupation	Job Outlook	Education	Earnings
Electrical and Electronics Repairers, Commercial and Industrial Equipment - 49-2094 - Repair, test, adjust, or install electronic equipment, such as industrial controls, transmitters, and antennas.	611	PS	\$22.28
	14	None	\$46,350
	D	LOJT	
Electrical and Electronics Repairers, Powerhouse, Substation, and Relay - 49-2095 - Inspect, test, repair, or maintain electrical equipment in generating stations, substations, and in-service relays.	173	PS	\$29.64
	6	None	\$61,650
	BA	LOJT	
Electrical Engineers - 17-2071 - Research, design, develop, test, or supervise the manufacturing and installation of electrical equipment, components, or systems for commercial, industrial, military, or scientific use.	523	B	\$35.64
	16	None	\$74,130
	BA	None	
Electrical Power-Line Installers and Repairers - 49-9051 - Install or repair cables or wires used in electrical power or distribution systems. May erect poles and light or heavy duty transmission towers.	1,525	HS	\$26.20
	56	None	\$54,490
	BA	LOJT	
Electricians - 47-2111 - 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.	4,985	HS	\$19.85
	137	None	\$41,290
	BA	App	
Electromechanical Equipment Assemblers - 51-2023 - Assemble or modify electromechanical equipment or devices, such as servomechanisms, gyros, dynamometers, magnetic drums, tape drives, brakes, control linkage, actuators, and appliances.	334	HS	\$14.44
	7	None	\$30,030
	BA	SOJT	
Electronic Equipment Installers and Repairers, Motor Vehicles - 49-2096 - Install, diagnose, or repair communications, sound, security, or navigation equipment in motor vehicles.	114	PS	\$12.61
	3	None	\$26,220
	BA	SOJT	
Electronic Home Entertainment Equipment Installers and Repairers - 49-2097 - Repair, adjust, or install audio or television receivers, stereo systems, camcorders, video systems, or other electronic home entertainment equipment.	207	PS	\$12.93
	8	None	\$26,890
	A	None	
Electronics Engineers, Except Computer - 17-2072 - Research, design, develop, or test electronic components and systems for commercial, industrial, military, or scientific use employing knowledge of electronic theory and materials properties.	339	B	\$32.96
	9	None	\$68,550
	BA	None	
Elementary School Teachers, Except Special Education - 25-2021 - Teach students basic academic, social, and other formative skills in public or private schools at the elementary level.	12,212	B	N/A
	337	None	\$44,580
	BA	I/R	
Eligibility Interviewers, Government Programs - 43-4061 - Determine eligibility of persons applying to receive assistance from government programs and agency resources, such as welfare, unemployment benefits, social security, and public housing.	1,985	A	\$15.76
	54	None	\$32,770
	BA	MOJT	
Embalmers - 39-4011 - Prepare bodies for interment in conformity with legal requirements.	176	PS	\$19.89
	6	None	\$41,370
	BA	SOJT	
Emergency Management Directors - 11-9161 - Plan and direct 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 or hazardous materials spills) disasters or hostage situations.	193	B	\$19.22
	4	1 to 5	\$39,970
	BA	LOJT	
Emergency Medical Technicians and Paramedics - 29-2041 - Assess injuries, administer emergency medical care, and extricate trapped individuals. Transport injured or sick persons to medical facilities.	2,023	PS	\$13.99
	61	None	\$29,090
	A	None	
Environmental Engineering Technicians - 17-3025 - Apply theory and principles of environmental engineering to modify, test, and operate equipment and devices used in the prevention, control, and remediation of environmental problems, including waste treatment and site remediation, under the direction of engineering staff or scientist. May assist in the development of environmental remediation devices.	223	A	\$18.13
	6	None	\$37,710
	BA	None	
Environmental Engineers - 17-2081 - Research, design, plan, or perform engineering duties in the prevention, control, and remediation of environmental hazards using various engineering disciplines. Work may include waste treatment, site remediation, or pollution control technology.	157	B	\$37.81
	4	None	\$78,640
	BA	None	
Environmental Science and Protection Technicians, Including Health - 19-4091 - Perform laboratory and field tests to monitor the environment and investigate sources of pollution, including those that affect health, under the direction of an environmental scientist, engineer, or other specialist. May collect samples of gases, soil, water, and other materials for testing.	147	A	\$18.64
	8	None	\$38,770
	A	MOJT	
Environmental Scientists and Specialists, Including Health - 19-2041 - 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.	367	B	\$24.85
	14	None	\$51,690
	BA	None	
Epidemiologists - 19-1041 - Investigate and describe the determinants and distribution of disease, disability, or health outcomes. May develop the means for prevention and control.	42	M	\$29.21
	0	None	\$60,750
	A	None	
Etchers and Engravers - 51-9194 - Engrave or etch metal, wood, rubber, or other materials. Includes such workers as etcher-circuit processors, pantograph engravers, and silk screen etchers.	38	HS	\$16.48
	0	None	\$34,280
	D	MOJT	
Excavating and Loading Machine and Dragline Operators - 53-7032 - Operate or tend machinery equipped with scoops, shovels, or buckets, to excavate and load loose materials.	829	LHS	\$15.59
	27	1 to 5	\$32,420
	BA	MOJT	
Executive Secretaries and Executive Administrative Assistants - 43-6011 - 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.	7,185	HS	\$18.80
	137	1 to 5	\$39,110
	BA	None	
Explosives Workers, Ordnance Handling Experts, and Blasters - 47-5031 - Place and detonate explosives to demolish structures or to loosen, remove, or displace earth, rock, or other materials. May perform specialized handling, storage, and accounting procedures. Includes seismograph shooters.	339	HS	\$17.14
	6	None	\$35,650
	D	MOJT	
Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic - 51-4021 - Set up, operate, or tend machines to extrude or draw thermoplastic or metal materials into tubes, rods, hoses, wire, bars, or structural shapes.	1,232	HS	\$14.79
	23	None	\$30,760
	D	MOJT	
Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders - 51-9041 - 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.	597	HS	\$17.33
	14	None	\$36,050
	D	MOJT	

Occupation	Job Outlook	Education	Earnings
Family and General Practitioners - 29-1062 - Physicians who diagnose, treat, and help prevent diseases and injuries that commonly occur in the general population. May refer patients to specialists when needed for further diagnosis or treatment.	1,377 33 BA	D None I/R	\$103.61 \$215,500
Farm and Home Management Advisors - 25-9021 - Advise, instruct, and assist individuals and families engaged in agriculture, agricultural-related processes, or home economics activities.	205 6 BA	M None None	\$22.30 \$46,380
Farm Equipment Mechanics and Service Technicians - 49-3041 - Diagnose, adjust, repair, or overhaul farm machinery and vehicles, such as tractors, harvesters, dairy equipment, and irrigation systems.	635 20 BA	HS None LOJT	\$15.16 \$31,540
Farmers, Ranchers, and Other Agricultural Managers - 11-9013 - Plan, direct, or coordinate the management or operation of farms, ranches, greenhouses, aquacultural operations, nurseries, timber tracts, or other agricultural establishments.	55,954 1,034 D	HS 5+ None	\$26.88 \$55,920
Farmworkers and Laborers, Crop, Nursery, and Greenhouse - 45-2092 - 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.	3,983 130 D	LHS None SOJT	\$10.33 \$21,480
Farmworkers, Farm, Ranch, and Aquacultural Animals - 45-2093 - Attend to live farm, ranch, or aquacultural animals that may include cattle, sheep, swine, goats, horses and other equines, poultry, finfish, shellfish, and bees. Attend to animals produced for animal products, such as meat, fur, skins, feathers, eggs, milk, and honey.	628 20 D	LHS None SOJT	\$11.27 \$23,440
Fiberglass Laminators and Fabricators - 51-2091 - Laminate layers of fiberglass on molds to form boat decks and hulls, bodies for golf carts, automobiles, or other products.	234 4 D	HS None MOJT	\$15.99 \$33,260
File Clerks - 43-4071 - 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.	1,335 38 D	HS None SOJT	\$10.67 \$22,200
Film and Video Editors - 27-4032 - Edit moving images on film, video, or other media. May edit or synchronize soundtracks with images.	60 1 BA	B 1 to 5 None	\$20.94 \$43,560
Financial Analysts - 13-2051 - Conduct quantitative analyses of information affecting investment programs of public or private institutions.	1,063 37 A	B None None	\$33.73 \$70,150
Financial Examiners - 13-2061 - Enforce or ensure compliance with laws and regulations governing financial and securities institutions and financial and real estate transactions. May examine, verify, or authenticate records.	210 7 A	B None MOJT	\$33.45 \$69,570
Financial Managers - 11-3031 - Plan, direct, or coordinate accounting, investing, banking, insurance, securities, and other financial activities of a branch, office, or department of an establishment.	3,577 68 BA	B 5+ None	\$41.82 \$86,990
Fine Artists, Including Painters, Sculptors, and Illustrators - 27-1013 - Create original artwork using any of a wide variety of media and techniques.	31 0 D	HS None LOJT	\$34.48 \$71,720
Fire Inspectors and Investigators - 33-2021 - Inspect buildings to detect fire hazards and enforce local ordinances and State laws, or investigate and gather facts to determine cause of fires and explosions.	45 1 BA	HS 5+ MOJT	\$21.84 \$45,420
Firefighters - 33-2011 - 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 assistance.	2,735 94 BA	PS None LOJT	\$16.73 \$34,810
First-Line Supervisors of Construction Trades and Extraction Workers - 47-1011 - Directly supervise and coordinate activities of construction or extraction workers.	5,615 147 BA	HS 5+ None	\$23.99 \$49,890
First-Line Supervisors of Correctional Officers - 33-1011 - Directly supervise and coordinate activities of correctional officers and jailers.	235 8 BA	HS 1 to 5 MOJT	\$22.43 \$46,650
First-Line Supervisors of Fire Fighting and Prevention Workers - 33-1021 - Directly supervise and coordinate activities of workers engaged in fire fighting and fire prevention and control.	504 28 BA	PS 1 to 5 None	\$26.43 \$54,970
First-Line Supervisors of Food Preparation and Serving Workers - 35-1012 - Directly supervise and coordinate activities of workers engaged in preparing and serving food.	8,701 362 A	HS 1 to 5 None	\$12.71 \$26,430
First-Line Supervisors of Helpers, Laborers, and Material Movers, Hand - 53-1021 - Directly supervise and coordinate the activities of helpers, laborers, or material movers.	1,646 42 BA	HS 1 to 5 None	\$19.62 \$40,800
First-Line Supervisors of Housekeeping and Janitorial Workers - 37-1011 - Directly supervise and coordinate work activities of cleaning personnel in hotels, hospitals, offices, and other establishments.	1,743 19 D	HS 1 to 5 None	\$14.24 \$29,630
First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers - 37-1012 - Directly supervise and coordinate activities of workers engaged in landscaping or groundskeeping activities.	1,761 38 BA	HS 1 to 5 None	\$18.83 \$39,170
First-Line Supervisors of Mechanics, Installers, and Repairers - 49-1011 - Directly supervise and coordinate the activities of mechanics, installers, and repairers. Excludes team or work leaders.	4,616 118 BA	HS 1 to 5 None	\$24.13 \$50,190
First-Line Supervisors of Non-Retail Sales Workers - 41-1012 - Directly supervise and coordinate activities of sales workers other than retail sales workers. May perform duties, such as budgeting, accounting, and personnel work, in addition to supervisory duties.	2,991 87 BA	HS 5+ None	\$32.70 \$68,010
First-Line Supervisors of Office and Administrative Support Workers - 43-1011 - Directly supervise and coordinate the activities of clerical and administrative support workers.	14,566 470 BA	HS 1 to 5 None	\$20.09 \$41,780

Occupation	Job Outlook	Education	Earnings
First-Line Supervisors of Police and Detectives - 33-1012 - Directly supervise and coordinate activities of members of police force.	749 29 D	HS 1 to 5 MOJT	\$26.10 \$54,280
First-Line Supervisors of Production and Operating Workers - 51-1011 - Directly 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.	7,392 96 D	PS 1 to 5 None	\$22.68 \$47,180
First-Line Supervisors of Retail Sales Workers - 41-1011 - Directly supervise and coordinate activities of retail sales workers in an establishment or department. Duties may include management functions, such as purchasing, budgeting, accounting, and personnel work, in addition to supervisory duties.	17,827 488 BA	HS 1 to 5 None	\$16.22 \$33,730
First-Line Supervisors of Transportation and Material-Moving Machine and Vehicle Operators - 53-1031 - Directly supervise and coordinate activities of transportation and material-moving machine and vehicle operators and helpers.	2,165 39 BA	HS 1 to 5 None	\$22.57 \$46,950
Fish and Game Wardens - 33-3031 - Patrol assigned area to prevent fish and game law violations. Investigate reports of damage to crops or property by wildlife. Compile biological data.	183 4 BA	HS None SOJT	\$22.21 \$46,190
Fitness Trainers and Aerobics Instructors - 39-9031 - Instruct or coach groups or individuals in exercise activities. Demonstrate techniques and form, observe participants, and explain to them corrective measures necessary to improve their skills.	1,338 27 BA	HS None SOJT	\$12.11 \$25,190
Floral Designers - 27-1023 - Design, cut, and arrange live, dried, or artificial flowers and foliage.	681 20 D	HS None SOJT	\$10.24 \$21,310
Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders - 51-3091 - Operate or tend food or tobacco roasting, baking, or drying equipment, including hearth ovens, kiln driers, roasters, char kilns, and vacuum drying equipment.	320 10 BA	LHS None MOJT	\$13.06 \$27,160
Food Batchmakers - 51-3092 - Set up and operate equipment that mixes or blends ingredients used in the manufacturing of food products. Includes candy makers and cheese makers.	1,182 32 D	HS -1 SOJT	\$10.77 \$22,410
Food Cooking Machine Operators and Tenders - 51-3093 - Operate or tend cooking equipment, such as steam cooking vats, deep fry cookers, pressure cookers, kettles, and boilers, to prepare food products.	525 14 D	HS -1 SOJT	\$11.99 \$24,940
Food Preparation Workers - 35-2021 - Perform a variety of food preparation duties other than cooking, such as preparing cold foods and shellfish, slicing meat, and brewing coffee or tea.	6,048 292 BA	LHS None SOJT	\$8.82 \$18,350
Food Servers, Nonrestaurant - 35-3041 - Serve food to individuals outside of a restaurant environment, such as in hotel rooms, hospital rooms, residential care facilities, or cars.	3,899 198 A	LHS None SOJT	\$8.34 \$17,350
Food Service Managers - 11-9051 - Plan, direct, or coordinate activities of an organization or department that serves food and beverages.	3,624 73 BA	HS 1 to 5 None	\$21.97 \$45,690
Forensic Science Technicians - 19-4092 - 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.	135 8 A	B None MOJT	\$18.93 \$39,370
Forest and Conservation Technicians - 19-4093 - Provide technical assistance regarding the conservation of soil, water, forests, or related natural resources. May compile data pertaining to size, content, condition, and other characteristics of forest tracts, under the direction of foresters; or train and lead forest workers in forest propagation, fire prevention and suppression.	297 12 D	A None None	\$19.90 \$41,400
Forest Fire Inspectors and Prevention Specialists - 33-2022 - Enforce fire regulations, inspect forest for fire hazards and recommend forest fire prevention or control measures. May report forest fires and weather conditions.	183 4 BA	HS 5+ MOJT	\$14.99 \$31,180
Foresters - 19-1032 - Manage public and private forested lands for economic, recreational, and conservation purposes. May inventory the type, amount, and location of standing timber, appraise the timber's worth, negotiate the purchase, and draw up contracts for procurement.	272 2 D	B None None	\$27.31 \$56,800
Forging Machine Setters, Operators, and Tenders, Metal and Plastic - 51-4022 - Set up, operate, or tend forging machines to taper, shape, or form metal or plastic parts.	305 7 BA	HS None MOJT	\$15.36 \$31,940
Foundry Mold and Coremakers - 51-4071 - Make or form wax or sand cores or molds used in the production of metal castings in foundries.	103 2 BA	HS None MOJT	\$13.73 \$28,560
Funeral Attendants - 39-4021 - Perform a variety of tasks during funeral, such as placing casket in parlor or chapel prior to service; arranging floral offerings or lights around casket; directing or escorting mourners; closing casket; and issuing and storing funeral equipment.	369 13 D	HS None SOJT	\$10.22 \$21,270
Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders - 51-9051 - Operate or tend heating equipment other than basic metal, plastic, or food processing equipment. Includes activities, such as annealing glass, drying lumber, curing rubber, removing moisture from materials, or boiling soap.	631 15 D	HS None MOJT	\$20.65 \$42,960
Furniture Finishers - 51-7021 - Shape, finish, and refinish damaged, worn, or used furniture or new high-grade furniture to specified color or finish.	248 6 D	HS None SOJT	\$12.15 \$25,270
Gas Plant Operators - 51-8092 - Distribute or process gas for utility companies and others by controlling compressors to maintain specified pressures on main pipelines.	158 9 A	HS None LOJT	\$26.63 \$55,390
General and Operations Managers - 11-1021 - Plan, direct, or coordinate the operations of public or private sector organizations.	16,563 260 D	A 1 to 5 None	\$43.59 \$90,660
Geoscientists, Except Hydrologists and Geographers - 19-2042 - Study the composition, structure, and other physical aspects of the Earth. May use geological, physics, and mathematics knowledge in exploration for oil, gas, minerals, or underground water; or in waste disposal, land reclamation, or other environmental problems.	92 4 A	B None None	\$30.57 \$63,590

Occupation	Job Outlook	Education	Earnings
Glaziers - 47-2121 - Install glass in windows, skylights, store fronts, and display cases, or on surfaces, such as building fronts, interior walls, ceilings, and tabletops.	286	HS	\$14.91
	10	None	\$31,020
	D	App	
Graders and Sorters, Agricultural Products - 45-2041 - Grade, sort, or classify unprocessed food and other agricultural products by size, weight, color, or condition.	1,114	LHS	\$10.91
	26	None	\$22,700
	D	SOJT	
Graphic Designers - 27-1024 - 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.	1,538	B	\$17.34
	56	None	\$36,060
	BA	None	
Grinding and Polishing Workers, Hand - 51-9022 - Grind, sand, or polish, using hand tools or hand-held power tools, a variety of metal, wood, stone, clay, plastic, or glass objects. Includes chippers, buffers, and finishers.	111	LHS	\$13.16
	4	None	\$27,370
	D	MOJT	
Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic - 51-4033 - Set up, operate, or tend grinding and related tools that remove excess material or burrs from surfaces, sharpen edges or corners, or buff, hone, or polish metal or plastic work pieces.	554	HS	\$15.44
	24	None	\$32,110
	A	MOJT	
Hairdressers, Hairstylists, and Cosmetologists - 39-5012 - Provide beauty services, such as shampooing, cutting, coloring, and styling hair, and massaging and treating scalp. May apply makeup, dress wigs, perform hair removal, and provide nail and skin care services.	3,103	PS	\$12.80
	98	None	\$26,620
	A	None	
Hazardous Materials Removal Workers - 47-4041 - Identify, remove, pack, transport, or dispose of hazardous materials, including asbestos, lead-based paint, waste oil, fuel, transmission fluid, radioactive materials, or contaminated soil. Specialized training and certification in hazardous materials handling or a confined entry permit are generally required. May operate earth-moving equipment or trucks.	275	HS	\$17.99
	13	None	\$37,410
	AA	MOJT	
Health and Safety Engineers, Except Mining Safety Engineers and Inspectors - 17-2111 - Promote worksite or product safety by applying knowledge of industrial processes, mechanics, chemistry, psychology, and industrial health and safety laws. Includes industrial product safety engineers.	93	B	\$32.50
	5	None	\$67,600
	AA	None	
Health Educators - 21-1091 - Provide and manage health education programs that help individuals, families, and their communities maximize and maintain healthy lifestyles. Collect and analyze data to identify community needs prior to planning, implementing, monitoring, and evaluating programs designed to encourage healthy lifestyles, policies, and environments.	342	B	\$19.10
	14	None	\$39,720
	A	None	
Healthcare Social Workers - 21-1022 - Provide individuals, families, and groups with the psychosocial support needed to cope with chronic, acute, or terminal illnesses. Services include advising family care givers, providing patient education and counseling, and making referrals for other services.	1,246	M	\$22.65
	51	None	\$47,110
	A	None	
Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic - 51-4191 - Set up, operate, or tend heating equipment, such as heat-treating furnaces, flame-hardening machines, induction machines, soaking pits, or vacuum equipment to temper, harden, anneal, or heat-treat metal or plastic objects.	291	HS	\$15.09
	20	None	\$31,380
	BA	MOJT	
Heating, Air Conditioning, and Refrigeration Mechanics and Installers - 49-9021 - Install or repair heating, central air conditioning, or refrigeration systems, including oil burners, hot-air furnaces, and heating stoves.	2,437	PS	\$18.12
	64	None	\$37,680
	A	LOJT	
Heavy and Tractor-Trailer Truck Drivers - 53-3032 - Drive a tractor-trailer combination or a truck with a capacity of at least 26,000 pounds Gross Vehicle Weight (GVW). May be required to unload truck. Requires commercial drivers' license.	32,534	HS	\$18.33
	685	1 to 5	\$38,130
	BA	SOJT	
Highway Maintenance Workers - 47-4051 - 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.	1,650	HS	\$13.30
	46	None	\$27,670
	BA	MOJT	
Home Appliance Repairers - 49-9031 - Repair, adjust, or install all types of electric or gas household appliances, such as refrigerators, washers, dryers, and ovens.	343	HS	\$12.93
	8	None	\$26,890
	BA	MOJT	
Home Health Aides - 31-1011 - Provide routine individualized healthcare such as changing bandages and dressing wounds, and applying topical medications to the elderly, convalescents, or persons with disabilities at the patient's home or in a care facility. Monitor or report changes in health status. May also provide personal care such as bathing, dressing, and grooming of patient.	8,996	LHS	\$8.78
	374	None	\$18,270
	AA	SOJT	
Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop - 35-9031 - Welcome patrons, seat them at tables or in lounge, and help ensure quality of facilities and service.	2,017	LHS	\$8.48
	208	None	\$17,640
	D	None	
Hotel, Motel, and Resort Desk Clerks - 43-4081 - Accommodate hotel, motel, and resort patrons by registering and assigning rooms to guests, issuing room keys or cards, 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.	2,224	HS	\$8.78
	96	None	\$18,260
	D	SOJT	
Human Resources Assistants, Except Payroll and Timekeeping - 43-4161 - Compile and keep personnel records. Record data for each employee, such as address, weekly earnings, absences, amount of sales or production, supervisory reports, and date of and reason for termination.	1,607	HS	\$15.99
	56	None	\$33,260
	BA	SOJT	
Human Resources Managers - 11-3121 - Plan, direct, or coordinate human resources activities and staff of an organization.	648	B	\$43.45
	23	1 to 5	\$90,390
	A	None	
Hydrologists - 19-2043 - Research the distribution, circulation, and physical properties of underground and surface waters; and study the form and intensity of precipitation, its rate of infiltration into the soil, movement through the earth, and its return to the ocean and atmosphere.	25	M	\$36.11
	0	None	\$75,110
	BA	None	
Industrial Engineering Technicians - 17-3026 - Apply engineering theory and principles to problems of industrial layout or manufacturing production, usually under the direction of engineering staff. May perform time and motion studies on worker operations in a variety of industries for purposes such as establishing standard production rates or improving efficiency.	255	A	\$21.86
	8	None	\$45,470
	A	None	
Industrial Engineers - 17-2112 - 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.	1,417	B	\$33.19
	39	None	\$69,030
	BA	None	
Industrial Machinery Mechanics - 49-9041 - Repair, install, adjust, or maintain industrial production and processing machinery or refinery and pipeline distribution systems.	4,874	HS	\$20.58
	163	None	\$42,810
	A	LOJT	
Industrial Production Managers - 11-3051 - Plan, direct, or coordinate the work activities and resources necessary for manufacturing products in accordance with cost, quality, and quantity specifications.	1,752	B	\$38.30
	40	1 to 5	\$79,670
	BA	None	

Occupation	Job Outlook	Education	Earnings
Industrial Truck and Tractor Operators - 53-7051 - Operate industrial trucks or tractors equipped to move materials around a warehouse, storage yard, factory, construction site, or similar location.	7,625 207 D	LHS -1 SOJT	\$13.04 \$27,110
Inspectors, Testers, Sorters, Samplers, and Weighers - 51-9061 - 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.	6,150 228 A	HS None MOJT	\$14.77 \$30,720
Instructional Coordinators - 25-9031 - Develop instructional material, coordinate educational content, and incorporate current technology in specialized fields that provide guidelines to educators and instructors for developing curricula and conducting courses.	1,438 48 A	M 5+ None	\$27.81 \$57,840
Insulation Workers, Floor, Ceiling, and Wall - 47-2131 - Line and cover structures with insulating materials. May work with batt, roll, or blown insulation materials.	122 4 D	LHS None SOJT	\$14.00 \$29,120
Insulation Workers, Mechanical - 47-2132 - Apply insulating materials to pipes or ductwork, or other mechanical systems in order to help control and maintain temperature.	63 2 D	HS None App	\$16.15 \$33,590
Insurance Appraisers, Auto Damage - 13-1032 - Appraise automobile or other vehicle damage to determine repair costs for insurance claim settlement. Prepare insurance forms to indicate repair cost or cost estimates and recommendations. May seek agreement with automotive repair shop on repair costs.	69 2 BA	PS None MOJT	\$21.33 \$44,360
Insurance Claims and Policy Processing Clerks - 43-9041 - Process new insurance policies, modifications to existing policies, and claims forms. Obtain information from policyholders to verify the accuracy and completeness of information on claims forms, applications and related documents, and company records.	1,396 50 BA	HS None MOJT	\$15.35 \$31,920
Insurance Sales Agents - 41-3021 - Sell life, property, casualty, health, automotive, or other types of insurance. May refer clients to independent brokers, work as an independent broker, or be employed by an insurance company.	2,895 146 AA	HS None MOJT	\$23.87 \$49,640
Insurance Underwriters - 13-2053 - Review individual applications for insurance to evaluate degree of risk involved and determine acceptance of applications.	448 20 A	B None MOJT	\$30.82 \$64,100
Interior Designers - 27-1025 - 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.	225 7 BA	B None None	\$17.40 \$36,190
Internists, General - 29-1063 - Physicians who diagnose and provide non-surgical treatment of diseases and injuries of internal organ systems. Provide care mainly for adults who have a wide range of problems associated with the internal organs.	175 3 BA	D None I/R	\$111.13 \$231,160
Interpreters and Translators - 27-3091 - Interpret oral or sign language, or translate written text from one language into another.	117 5 A	B None LOJT	\$15.58 \$32,400
Interviewers, Except Eligibility and Loan - 43-4111 - Interview persons by telephone, mail, in person, or by other means for the purpose of completing forms, applications, or questionnaires. Ask specific questions, record answers, and assist persons with completing form. May sort, classify, and file forms.	2,133 46 BA	HS None SOJT	\$12.21 \$25,390
Janitors and Cleaners, Except Maids and Housekeeping Cleaners - 37-2011 - Keep buildings in clean and orderly condition. Perform heavy cleaning duties, such as cleaning floors, shampooing rugs, washing walls and glass, and removing rubbish.	18,371 464 BA	LHS None SOJT	\$9.76 \$20,310
Jewelers and Precious Stone and Metal Workers - 51-9071 - Design, fabricate, adjust, repair, or appraise jewelry, gold, silver, other precious metals, or gems. Includes diamond polishers and gem cutters, and persons who perform precision casting and modeling of molds, casting metal in molds, or setting precious and semi-precious stones for jewelry and related products.	192 4 D	HS None LOJT	\$21.03 \$43,740
Kindergarten Teachers, Except Special Education - 25-2012 - Teach elemental natural and social science, personal hygiene, music, art, and literature to kindergarten students. Promote physical, mental, and social development. May be required to hold State certification.	2,490 80 BA	B None I/R	N/A \$44,080
Landscape Architects - 17-1012 - Plan and design land areas for projects such as parks and other recreational facilities, airports, highways, hospitals, schools, land subdivisions, and commercial, industrial, and residential sites.	97 2 BA	B None I/R	\$24.74 \$51,460
Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic - 51-4034 - 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.	194 9 BA	HS None MOJT	\$15.94 \$33,160
Laundry and Dry-Cleaning Workers - 51-6011 - 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, linens, rugs, and carpets. Includes spotters and dyers of these articles.	1,958 33 D	LHS None SOJT	\$9.02 \$18,750
Lawyers - 23-1011 - Represent clients in criminal and civil litigation and other legal proceedings, draw up legal documents, or manage or advise clients on legal transactions. May specialize in a single area or may practice broadly in many areas of law.	4,414 79 D	D None None	\$44.41 \$92,380
Legal Secretaries - 43-6012 - Perform secretarial duties using legal terminology, procedures, and documents. Prepare legal papers and correspondence, such as summonses, complaints, motions, and subpoenas. May also assist with legal research.	946 12 D	HS None MOJT	\$17.87 \$37,170
Librarians - 25-4021 - Administer libraries and perform related library services. Work in a variety of settings, including public libraries, educational institutions, museums, corporations, government agencies, law firms, non-profit organizations, and healthcare providers.	1,573 39 BA	M None None	\$25.58 \$53,200
Licensed Practical and Licensed Vocational Nurses - 29-2061 - Care for ill, injured, or convalescing patients or persons with disabilities in hospitals, nursing homes, clinics, private homes, group homes, and similar institutions. May work under the supervision of a registered nurse. Licensing required.	12,604 428 BA	PS None None	\$16.79 \$34,920
Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers - 33-9092 - Monitor recreational areas, such as pools, beaches, or ski slopes to provide assistance and protection to participants.	295 30 D	HS None SOJT	\$8.43 \$17,540
Light Truck or Delivery Services Drivers - 53-3033 - Drive a light vehicle, such as a truck or van, with a capacity of less than 26,000 pounds Gross Vehicle Weight (GVW), primarily to deliver or pick up merchandise or to deliver packages. May load and unload vehicle.	6,499 120 D	HS None SOJT	\$13.88 \$28,860

Occupation	Job Outlook	Education	Earnings
Loading Machine Operators, Underground Mining - 53-7033 - Operate underground loading machine to load coal, ore, or rock into shuttle or mine car or onto conveyors. Loading equipment may include power shovels, hoisting engines equipped with cable-drawn scraper or scoop, or machines equipped with gathering arms and conveyor.	27	LHS	\$16.30
	3	None	\$33,890
	AA	SOJT	
Loan Interviewers and Clerks - 43-4131 - 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. Review loan papers to ensure completeness, and complete transactions between loan establishment, borrowers, and sellers upon approval of loan.	1,524	HS	\$14.54
	28	None	\$30,250
	D	SOJT	
Loan Officers - 13-2072 - Evaluate, authorize, or recommend approval of commercial, real estate, or credit loans. Advise borrowers on financial status and payment methods. Includes mortgage loan officers and agents, collection analysts, loan servicing officers, and loan underwriters.	2,307	HS	\$31.44
	75	None	\$65,400
	BA	MOJT	
Locksmiths and Safe Repairers - 49-9094 - Repair and open locks; make keys; change locks and safe combinations; and install and repair safes.	258	HS	\$14.30
	6	None	\$29,730
	BA	LOJT	
Lodging Managers - 11-9081 - Plan, direct, or coordinate activities of an organization or department that provides lodging and other accommodations.	592	HS	\$18.16
	16	1 to 5	\$37,780
	D	None	
Log Graders and Scalers - 45-4023 - Grade logs or estimate the marketable content or value of logs or pulpwood in sorting yards, millpond, log deck, or similar locations. Inspect logs for defects or measure logs to determine volume.	193	HS	\$14.96
	4	None	\$31,110
	D	MOJT	
Logging Equipment Operators - 45-4022 - Drive logging tractor or wheeled vehicle equipped with one or more accessories, such as bulldozer blade, frontal shear, grapple, logging arch, cable winches, hoisting rack, or crane boom, to fell tree; to skid, load, unload, or stack logs; or to pull stumps or clear brush.	1,203	HS	\$15.85
	28	None	\$32,970
	D	MOJT	
Logisticians - 13-1081 - 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.	1,000	B	\$29.83
	49	1 to 5	\$62,050
	AA	None	
Machinists - 51-4041 - 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, mathematics, metal properties, layout, and machining procedures.	4,004	HS	\$16.43
	164	None	\$34,180
	A	LOJT	
Maids and Housekeeping Cleaners - 37-2012 - Perform any combination of light cleaning duties to maintain private households or commercial establishments, such as hotels and hospitals, in a clean and orderly manner. Duties may include making beds, replenishing linens, cleaning rooms and halls, and vacuuming.	8,566	LHS	\$8.54
	128	None	\$17,770
	D	SOJT	
Mail Clerks and Mail Machine Operators, Except Postal Service - 43-9051 - Prepare incoming and outgoing mail for distribution. Use hand or mail handling machines to time stamp, open, read, sort, and route incoming mail; and address, seal, stamp, fold, stuff, and affix postage to outgoing mail or packages. Duties may also include keeping necessary records and completed forms.	718	HS	\$10.64
	24	None	\$22,120
	A	SOJT	
Maintenance and Repair Workers, General - 49-9071 - 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.	12,215	HS	\$15.17
	252	None	\$31,550
	BA	MOJT	
Maintenance Workers, Machinery - 49-9043 - Lubricate machinery, change parts, or perform other routine machinery maintenance. Excludes "Maintenance and Repair Workers, General" (49-9071).	1,099	HS	\$16.94
	27	None	\$35,240
	BA	MOJT	
Management Analysts - 13-1111 - Conduct organizational studies and evaluations, design systems and procedures, conduct work simplification and measurement studies, and prepare operations and procedures manuals to assist management in operating more efficiently and effectively.	2,486	B	\$29.93
	68	1 to 5	\$62,250
	A	None	
Market Research Analysts and Marketing Specialists - 13-1161 - Research market conditions in local, regional, or national areas, or gather information to determine potential sales of a product or service, or create a marketing campaign. May gather information on competitors, prices, sales, and methods of marketing and distribution.	1,568	B	\$29.82
	85	None	\$62,020
	AA	None	
Marketing Managers - 11-2021 - Plan, direct, or coordinate marketing policies and programs, such as determining 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.	915	B	\$53.09
	33	1 to 5	\$110,420
	BA	None	
Massage Therapists - 31-9011 - Perform therapeutic massages of soft tissues and joints. May assist in the assessment of range of motion and muscle strength, or propose client therapy plans.	244	PS	\$15.07
	10	None	\$31,340
	A	None	
Materials Engineers - 17-2131 - 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.	61	B	\$35.61
	2	None	\$74,070
	BA	None	
Meat, Poultry, and Fish Cutters and Trimmers - 51-3022 - Use hand or hand tools to perform routine cutting and trimming of meat, poultry, and seafood.	7,727	LHS	\$10.21
	218	None	\$21,240
	D	SOJT	
Mechanical Door Repairers - 49-9011 - Install, service, or repair automatic door mechanisms and hydraulic doors. Includes garage door mechanics.	86	HS	\$12.22
	2	None	\$25,430
	D	MOJT	
Mechanical Drafters - 17-3013 - Prepare detailed working diagrams of machinery and mechanical devices, including dimensions, fastening methods, and other engineering information.	417	A	\$22.65
	11	None	\$47,110
	BA	None	
Mechanical Engineering Technicians - 17-3027 - Apply theory and principles of mechanical engineering to modify, develop, test, or calibrate machinery and equipment under direction of engineering staff or physical scientists.	207	A	\$23.00
	4	None	\$47,840
	BA	None	
Mechanical Engineers - 17-2141 - Perform engineering duties in planning and designing tools, engines, machines, and other mechanically functioning equipment. Oversee installation, operation, maintenance, and repair of equipment such as centralized heat, gas, water, and steam systems.	1,130	B	\$32.72
	49	None	\$68,060
	A	None	
Medical and Clinical Laboratory Technicians - 29-2012 - Perform routine medical laboratory tests for the diagnosis, treatment, and prevention of disease. May work under the supervision of a medical technologist.	1,514	A	\$16.16
	26	None	\$33,620
	D	None	
Medical and Clinical Laboratory Technologists - 29-2011 - Perform complex medical laboratory tests for diagnosis, treatment, and prevention of disease. May train or supervise staff.	1,219	B	\$23.97
	20	None	\$49,850
	D	None	

Occupation	Job Outlook	Education	Earnings
Medical and Health Services Managers - 11-9111 - Plan, direct, or coordinate medical and health services in hospitals, clinics, managed care organizations, public health agencies, or similar organizations.	2,087 66 A	B None None	\$36.88 \$76,720
Medical Assistants - 31-9092 - Perform administrative and certain clinical duties under the direction of a physician. Administrative duties may include scheduling appointments, maintaining medical records, billing, and coding information for insurance purposes.	2,437 99 BA	HS None MOJT	\$12.49 \$25,980
Medical Equipment Preparers - 31-9093 - Prepare, sterilize, install, or clean laboratory or healthcare equipment. May perform routine laboratory tasks and operate or inspect equipment.	1,844 38 A	HS None MOJT	\$12.89 \$26,820
Medical Records and Health Information Technicians - 29-2071 - 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.	1,483 36 BA	PS None None	\$15.48 \$32,200
Medical Scientists, Except Epidemiologists - 19-1042 - Conduct research dealing with the understanding of human diseases and the improvement of human health. Engage in clinical investigation, research and development, or other related activities. Includes physicians, dentists, public health specialists, pharmacologists, and medical pathologists who primarily conduct research.	280 10 AA	D None None	\$33.63 \$69,950
Medical Secretaries - 43-6013 - Perform secretarial duties using specific knowledge of medical terminology and hospital, clinic, or laboratory procedures. Duties may include scheduling appointments, billing patients, and compiling and recording medical charts, reports, and correspondence.	2,153 58 A	HS None MOJT	\$12.99 \$27,020
Medical Transcriptionists - 31-9094 - Transcribe medical reports recorded by physicians and other healthcare practitioners using various electronic devices, covering office visits, emergency room visits, diagnostic imaging studies, operations, chart reviews, and final summaries. Transcribe dictated reports and translate abbreviations into fully understandable form.	200 4 D	PS None None	\$13.75 \$28,590
Meeting, Convention, and Event Planners - 13-1121 - Coordinate activities of staff, convention personnel, or clients to make arrangements for group meetings, events, or conventions.	549 24 AA	B -1 None	\$18.11 \$37,670
Mental Health and Substance Abuse Social Workers - 21-1023 - Assess and treat individuals with mental, emotional, or substance abuse problems, including abuse of alcohol, tobacco, and/or other drugs. Activities may include individual and group therapy, crisis intervention, case management, client advocacy, prevention, and education.	827 37 A	B None None	\$21.14 \$43,980
Mental Health Counselors - 21-1014 - Counsel with emphasis on prevention. Work with individuals and groups to promote optimum mental and emotional health. May help individuals deal with issues associated with addictions and substance abuse; family, parenting, and marital problems; stress management; self-esteem; and aging.	709 32 AA	M None I/R	\$24.59 \$51,150
Merchandise Displayers and Window Trimmers - 27-1026 - Plan and erect commercial displays, such as those in windows and interiors of retail stores and at trade exhibitions.	643 25 BA	HS None MOJT	\$12.26 \$25,500
Metal-Refining Furnace Operators and Tenders - 51-4051 - 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.	286 16 AA	HS None MOJT	\$18.41 \$38,290
Microbiologists - 19-1022 - Investigate the growth, structure, development, and other characteristics of microscopic organisms, such as bacteria, algae, or fungi. Includes medical microbiologists who study the relationship between organisms and disease or the effects of antibiotics on microorganisms.	176 6 A	B None None	\$33.09 \$68,820
Middle School Teachers, Except Special and Career/Technical Education - 25-2022 - Teach students in one or more subjects in public or private schools at the middle, intermediate, or junior high level, which falls between elementary and senior high school as defined by applicable laws and regulations.	7,181 199 BA	B None I/R	N/A \$46,450
Mining and Geological Engineers, Including Mining Safety Engineers - 17-2151 - Conduct sub-surface surveys to identify the characteristics of potential land or mining development sites. May specify the ground support systems, processes and equipment for safe, economical, and environmentally sound extraction or underground construction activities.	39 1 A	B None None	\$30.42 \$63,280
Mixing and Blending Machine Setters, Operators, and Tenders - 51-9023 - Set up, operate, or tend machines to mix or blend materials, such as chemicals, tobacco, liquids, color pigments, or explosive ingredients.	1,255 63 A	HS None MOJT	\$17.41 \$36,220
Mobile Heavy Equipment Mechanics, Except Engines - 49-3042 - Diagnose, adjust, repair, or overhaul mobile mechanical, hydraulic, and pneumatic equipment, such as cranes, bulldozers, graders, and conveyors, used in construction, logging, and surface mining.	1,145 39 BA	HS None LOJT	\$17.71 \$36,840
Model Makers, Metal and Plastic - 51-4061 - Set up and operate machines, such as lathes, milling and engraving machines, and jig borers to make working models of metal or plastic objects. Includes template makers.	44 0 D	HS None LOJT	\$20.26 \$42,150
Molders, Shapers, and Casters, Except Metal and Plastic - 51-9195 - Mold, shape, form, cast, or carve products such as food products, figurines, tile, pipes, and candles consisting of clay, glass, plaster, concrete, stone, or combinations of materials.	304 11 BA	HS None LOJT	\$12.75 \$26,510
Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic - 51-4072 - Set up, operate, or tend metal or plastic molding, casting, or coremaking machines to mold or cast metal or thermoplastic parts or products.	2,098 41 BA	HS None MOJT	\$13.79 \$28,680
Motorboat Mechanics and Service Technicians - 49-3051 - Repair and adjust electrical and mechanical equipment of inboard or inboard-outboard boat engines.	169 6 A	HS None LOJT	\$15.16 \$31,530
Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic - 51-4081 - Set up, operate, or tend more than one type of cutting or forming machine tool or robot.	1,070 20 D	HS None MOJT	\$14.85 \$30,880
Museum Technicians and Conservators - 25-4013 - Restore, maintain, or prepare objects in museum collections for storage, research, or exhibit. May work with specimens such as fossils, skeletal parts, or botanicals; or artifacts, textiles, or art. May identify and record objects or install and arrange them in exhibits. Includes book or document conservators.	84 4 AA	B None None	\$17.03 \$35,420
Music Directors and Composers - 27-2041 - Conduct, direct, plan, and lead instrumental or vocal performances by musical groups, such as orchestras, bands, choirs, and glee clubs. Includes arrangers, composers, choral directors, and orchestrators.	560 15 BA	B 1 to 5 None	\$20.99 \$43,660
Musical Instrument Repairers and Tuners - 49-9063 - Repair percussion, stringed, reed, or wind instruments. May specialize in one area, such as piano tuning.	27 0 BA	PS None LOJT	\$16.82 \$34,980

Occupation	Job Outlook	Education	Earnings
Natural Sciences Managers - 11-9121 - Plan, direct, or coordinate activities in such fields as life sciences, physical sciences, mathematics, statistics, and research and development in these fields.	259 8 BA	B 5+ None	\$43.91 \$91,340
Network and Computer Systems Architects and Administrators - 15-1142 - Install, configure, and support an organization's local area network (LAN), wide area network (WAN), and Internet systems or a segment of a network system. Monitor network to ensure network availability to all system users and may perform necessary maintenance to support network availability.	2,316 87 A	B None None	\$29.80 \$61,980
New Accounts Clerks - 43-4141 - Interview persons desiring to open accounts in financial institutions. Explain account services available to prospective customers and assist them in preparing applications.	1,682 60 BA	HS None SOJT	\$13.76 \$28,620
Nonfarm Animal Caretakers - 39-2021 - 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. Work in settings such as kennels, animal shelters, zoos, circuses, and aquariums.	1,677 37 D	LHS None SOJT	\$9.24 \$19,210
Obstetricians and Gynecologists - 29-1064 - Physicians who provide medical care related to pregnancy or childbirth and those who diagnose, treat, and help prevent diseases of women, particularly those affecting the reproductive system. May also provide general medical care to women.	268 6 BA	D None I/R	\$117.12 \$243,610
Occupational Health and Safety Specialists - 29-9011 - 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.	704 24 BA	B None MOJT	\$27.45 \$57,100
Occupational Health and Safety Technicians - 29-9012 - Collect data on work environments for analysis by occupational health and safety specialists. Implement and conduct evaluation of programs designed to limit chemical, physical, biological, and ergonomic risks to workers.	80 4 A	HS None MOJT	\$19.67 \$40,920
Occupational Therapy Aides - 31-2012 - Under close supervision of an occupational therapist or occupational therapy assistant, perform only delegated, selected, or routine tasks in specific situations. These duties include preparing patient and treatment room.	36 1 AA	HS None SOJT	\$12.88 \$26,800
Occupational Therapy Assistants - 31-2011 - 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.	140 6 AA	A None None	\$22.41 \$46,610
Occupational Therapists - 29-1122 - Assess, plan, organize, and participate in rehabilitative programs that help build or restore vocational, homemaking, and daily living skills, as well as general independence, to persons with disabilities or developmental delays.	1,031 41 A	M None None	\$36.80 \$76,540
Office Machine Operators, Except Computer - 43-9071 - Operate one or more of a variety of office machines, such as photocopying, photographic, and duplicating machines, or other office machines.	889 28 D	HS None SOJT	\$13.16 \$27,370
Operating Engineers and Other Construction Equipment Operators - 47-2073 - Operate one or several types of power construction equipment, such as motor graders, bulldozers, scrapers, compressors, pumps, derricks, shovels, tractors, or front-end loaders to excavate, move, and grade earth, erect structures, or pour concrete or other hard surface pavement.	4,142 109 BA	HS None MOJT	\$15.40 \$32,030
Operations Research Analysts - 15-2031 - Formulate and apply mathematical modeling and other optimizing methods to develop and interpret information that assists management with decision making, policy formulation, or other managerial functions. May collect and analyze data and develop decision support software, service, or products.	275 14 A	B None None	\$24.82 \$51,620
Opticians, Dispensing - 29-2081 - Design, measure, fit, and adapt lenses and frames for client according to written optical prescription or specification. Assist client with inserting, removing, and caring for contact lenses.	534 18 A	HS None LOJT	\$13.22 \$27,490
Optometrists - 29-1041 - 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.	543 28 A	D None None	\$45.23 \$94,070
Order Clerks - 43-4151 - Receive and process incoming orders for materials, merchandise, classified ads, or services such as repairs, installations, or rental of facilities. Generally receives orders via mail, phone, fax, or other electronic means.	1,298 36 D	HS None SOJT	\$13.62 \$28,340
Outdoor Power Equipment and Other Small Engine Mechanics - 49-3053 - Diagnose, adjust, repair, or overhaul small engines used to power lawn mowers, chain saws, recreational sporting equipment and related equipment.	384 16 A	HS None MOJT	\$11.61 \$24,150
Packaging and Filling Machine Operators and Tenders - 51-9111 - Operate or tend machines to prepare industrial or consumer products for storage or shipment. Includes cannery workers who pack food products.	4,157 78 BA	HS None MOJT	\$12.72 \$26,460
Painters, Construction and Maintenance - 47-2141 - 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.	2,094 44 D	LHS None MOJT	\$16.19 \$33,680
Painters, Transportation Equipment - 51-9122 - Operate or tend painting machines to paint surfaces of transportation equipment, such as automobiles, buses, trucks, trains, boats, and airplanes. Includes painters in auto body repair facilities.	682 43 AA	HS None MOJT	\$16.29 \$33,870
Painting, Coating, and Decorating Workers - 51-9123 - Paint, coat, or decorate articles, such as furniture, glass, plateware, pottery, jewelry, toys, books, or leather.	186 9 AA	HS None MOJT	\$12.51 \$26,020
Paper Goods Machine Setters, Operators, and Tenders - 51-9196 - Set up, operate, or tend paper goods machines that perform a variety of functions, such as converting, sawing, corrugating, banding, wrapping, boxing, stitching, forming, or sealing paper or paperboard sheets into products.	2,097 22 D	HS None MOJT	\$17.26 \$35,900
Paralegals and Legal Assistants - 23-2011 - Assist lawyers by investigating facts, preparing legal documents, or researching legal precedent. Conduct research to support a legal proceeding, to formulate a defense, or to initiate legal action.	1,768 24 BA	A None None	\$17.70 \$36,820
Patternmakers, Metal and Plastic - 51-4062 - Lay out, machine, fit, and assemble castings and parts to metal or plastic foundry patterns, core boxes, or match plates.	50 0 D	HS None LOJT	\$20.10 \$41,800
Paving, Surfacing, and Tamping Equipment Operators - 47-2071 - Operate equipment used for applying concrete, asphalt, or other materials to road beds, parking lots, or airport runways and taxiways, or equipment used for tamping gravel, dirt, or other materials. Includes concrete and asphalt paving machine operators, form tampers, tamping machine operators, and stone spreader operators.	878 17 D	HS None MOJT	\$14.28 \$29,710

Occupation	Job Outlook	Education	Earnings
Payroll and Timekeeping Clerks - 43-3051 - Compile and record employee time and payroll data. May compute employees' time worked, production, and commission. May compute and post wages and deductions, or prepare paychecks.	1,647 45 BA	HS None MOJT	\$16.20 \$33,690
Pediatricians, General - 29-1065 - Physicians who diagnose, treat, and help prevent children's diseases and injuries.	260 7 BA	D None I/R	\$80.20 \$166,820
Personal Care Aides - 39-9021 - Assist the elderly, convalescents, or persons with disabilities with daily living activities at the person's home or in a care facility. Duties performed at a place of residence may include keeping house (making beds, doing laundry, washing dishes) and preparing meals.	10,301 472 AA	LHS None SOJT	\$8.65 \$17,980
Petroleum Engineers - 17-2171 - Devise methods to improve oil and gas extraction and production and determine the need for new or modified tool designs. Oversee drilling and offer technical advice.	51 2 A	B None None	N/A
Petroleum Pump System Operators, Refinery Operators, and Gaugers - 51-8093 - Operate or control petroleum refining or processing units. May specialize in controlling manifold and pumping systems, gauging or testing oil in storage tanks, or regulating the flow of oil into pipelines.	303 10 D	HS None LOJT	\$22.70 \$47,210
Pharmacists - 29-1051 - Dispense drugs prescribed by physicians and other health practitioners and provide information to patients about medications and their use. May advise physicians and other health practitioners on the selection, dosage, interactions, and side effects of medications.	2,927 106 A	D None None	\$50.76 \$105,570
Pharmacy Aides - 31-9095 - Record drugs delivered to the pharmacy, store incoming merchandise, and inform the supervisor of stock needs. May operate cash register and accept prescriptions for filling.	889 12 A	HS None SOJT	\$9.54 \$19,830
Pharmacy Technicians - 29-2052 - Prepare medications under the direction of a pharmacist. May measure, mix, count out, label, and record amounts and dosages of medications according to prescription orders.	3,632 106 A	HS None MOJT	\$12.41 \$25,810
Photographers - 27-4021 - Photograph people, landscapes, merchandise, or other subjects, using digital or film cameras and equipment. May develop negatives or use computer software to produce finished images and prints. Includes scientific photographers, aerial photographers, and photojournalists.	922 8 D	HS None LOJT	\$13.90 \$28,920
Photographic Process Workers and Processing Machine Operators - 51-9151 - Perform work involved in developing and processing photographic images from film or digital media. May perform precision tasks such as editing photographic negatives and prints.	456 13 D	HS None SOJT	\$10.43 \$21,700
Physical Therapist Assistants - 31-2021 - 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.	671 26 AA	A None None	\$23.69 \$49,270
Physical Therapists - 29-1123 - Assess, plan, organize, and participate in rehabilitative programs that improve mobility, relieve pain, increase strength, and improve or correct disabling conditions resulting from disease or injury.	1,615 56 AA	D None None	\$37.96 \$78,960
Physician Assistants - 29-1071 - 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.	113 3 BA	M None None	\$32.89 \$68,420
Pipelayers - 47-2151 - Lay pipe for storm or sanitation sewers, drains, and water mains. Perform any combination of the following tasks: grade trenches or culverts, position pipe, or seal joints.	457 17 BA	HS None SOJT	\$16.04 \$33,350
Plasterers and Stucco Masons - 47-2161 - Apply interior or exterior plaster, cement, stucco, or similar materials. May also set ornamental plaster.	56 1 D	LHS None LOJT	\$15.93 \$33,130
Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic - 51-4193 - 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.	676 16 BA	HS None MOJT	\$13.60 \$28,290
Plumbers, Pipefitters, and Steamfitters - 47-2152 - 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. Includes sprinklerfitters.	3,274 109 BA	HS None App	\$19.44 \$40,430
Police and Sheriff's Patrol Officers - 33-3051 - Maintain order and protect life and property by enforcing local, tribal, State, or Federal laws and ordinances. Perform a combination of the following duties: patrol a specific area; direct traffic; issue traffic summonses; investigate accidents; apprehend and arrest suspects, or serve legal processes of courts.	5,737 181 BA	HS None MOJT	\$17.63 \$36,660
Police, Fire, and Ambulance Dispatchers - 43-5031 - Operate radio, telephone, or computer equipment at emergency response centers. Receive reports from the public of crimes, disturbances, fires, and medical or police emergencies. Relay information to law enforcement and emergency response personnel. May maintain contact with caller until responders arrive.	1,295 29 BA	HS None MOJT	\$12.00 \$24,960
Postal Service Clerks - 43-5051 - 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; and examine mail for correct postage.	658 15 D	HS None SOJT	\$25.24 \$52,490
Postal Service Mail Carriers - 43-5052 - Sort mail for delivery. Deliver mail on established route by vehicle or on foot.	2,953 92 D	HS None SOJT	\$23.58 \$49,050
Postal Service Mail Sorters, Processors, and Processing Machine Operators - 43-5053 - Prepare incoming and outgoing mail for distribution. Examine, sort, and route mail. Load, operate, and occasionally adjust and repair mail processing, sorting, and canceling machinery.	967 5 D	HS None SOJT	\$20.46 \$42,550
Postmasters and Mail Superintendents - 11-9131 - Plan, direct, or coordinate operational, administrative, management, and supportive services of a U.S. post office; or coordinate activities of workers engaged in postal and related work in assigned post office.	532 10 D	HS 1 to 5 MOJT	\$26.99 \$56,150
Pourers and Casters, Metal - 51-4052 - Operate hand-controlled mechanisms to pour and regulate the flow of molten metal into molds to produce castings or ingots.	202 7 A	HS None MOJT	\$18.73 \$38,950
Power Plant Operators - 51-8013 - Control, operate, or maintain machinery to generate electric power. Includes auxiliary equipment operators.	326 10 D	HS None LOJT	\$28.12 \$58,490

Occupation	Job Outlook	Education	Earnings
Prepress Technicians and Workers - 51-5111 - Format and proof text and images submitted by designers and clients into finished pages that can be printed. Includes digital and photo typesetting. May produce printing plates.	512 12 D	PS None None	\$16.43 \$34,180
Preschool Teachers, Except Special Education - 25-2011 - Instruct preschool-aged children in activities designed to promote social, physical, and intellectual growth needed for primary school in preschool, day care center, or other child development facility.	3,735 144 A	A None None	\$13.57 \$28,220
Print Binding and Finishing Workers - 51-5113 - Bind books and other publications or finish printed products by hand or machine. May set up binding and finishing machines.	543 16 D	HS None SOJT	\$15.94 \$33,160
Printing Press Operators - 51-5112 - Set up and operate digital, letterpress, lithographic, flexographic, gravure, or other printing machines. Includes short-run offset printing presses.	1,794 34 D	HS None MOJT	\$14.88 \$30,950
Private Detectives and Investigators - 33-9021 - Gather, analyze, compile and report information regarding individuals or organizations to clients, or detect occurrences of unlawful acts or infractions of rules in private establishment.	43 1 A	SC 1 to 5 MOJT	\$26.30 \$54,700
Probation Officers and Correctional Treatment Specialists - 21-1092 - Provide social services to assist in rehabilitation of law offenders in custody or on probation or parole. Make recommendations for actions involving formulation of rehabilitation plan and treatment of offender, including conditional release and education and employment stipulations.	975 34 A	B None SOJT	\$16.59 \$34,520
Producers and Directors - 27-2012 - Produce or direct stage, television, radio, video, or motion picture productions for entertainment, information, or instruction. Responsible for creative decisions, such as interpretation of script, choice of actors or guests, set design, sound, special effects, and choreography.	291 10 BA	B 1 to 5 None	\$28.71 \$59,720
Production, Planning, and Expediting Clerks - 43-5061 - Coordinate and expedite the flow of work and materials within or between departments of an establishment according to production schedule.	2,381 65 BA	HS None MOJT	\$19.14 \$39,800
Proofreaders and Copy Markers - 43-9081 - Read transcript or proof type setup to detect and mark for correction any grammatical, typographical, or compositional errors. Excludes workers whose primary duty is editing copy. Includes proofreaders of Braille.	66 1 D	B None MOJT	\$14.79 \$30,760
Property, Real Estate, and Community Association Managers - 11-9141 - Plan, direct, or coordinate the selling, buying, leasing, or governance activities of commercial, industrial, or residential real estate properties. Includes managers of homeowner and condominium associations, rented or leased housing units, buildings, or land (including rights-of-way).	2,909 64 BA	HS 1 to 5 None	\$20.41 \$42,450
Psychiatric Aides - 31-1013 - Assist mentally impaired or emotionally disturbed patients, working under direction of nursing and medical staff. May assist with daily living activities, lead patients in educational and recreational activities, or accompany patients to and from examinations and treatments. May restrain violent patients. Includes psychiatric orderlies.	772 26 A	HS None SOJT	\$9.93 \$20,660
Psychiatric Technicians - 29-2053 - Care for individuals with mental or emotional conditions or disabilities, following the instructions of physicians or other health practitioners. Monitor patients' physical and emotional well-being and report to medical staff. May participate in rehabilitation and treatment programs, help with personal hygiene, and administer oral or injectable medications.	553 22 AA	PS None SOJT	\$10.80 \$22,460
Psychiatrists - 29-1066 - Physicians who diagnose, treat, and help prevent disorders of the mind.	143 4 A	D None I/R	\$75.48 \$157,000
Public Relations Fundraising Managers - 11-2031 - Plan, direct, or coordinate activities designed to create or maintain a favorable public image or raise issue awareness for their organization or client; or if engaged in fundraising, plan, direct, or coordinate activities to solicit and maintain funds for special projects or nonprofit organizations.	267 9 BA	B 1 to 5 None	\$44.23 \$92,000
Public Relations Specialists - 27-3031 - Engage in promoting or creating an intended public image for individuals, groups, or organizations. May write or select material for release to various communications media.	1,373 54 A	B None MOJT	\$22.25 \$46,270
Purchasing Agents, Except Wholesale, Retail, and Farm Products - 13-1023 - Purchase machinery, equipment, tools, parts, supplies, or services necessary for the operation of an establishment. Purchase raw or semi-finished materials for manufacturing.	1,624 43 BA	HS None LOJT	\$24.30 \$50,540
Purchasing Managers - 11-3061 - Plan, direct, or coordinate the activities of buyers, purchasing officers, and related workers involved in purchasing materials, products, and services. Includes wholesale or retail trade merchandising managers and procurement managers.	497 21 A	B 5+ None	\$46.93 \$97,610
Radiation Therapists - 29-1124 - Provide radiation therapy to patients as prescribed by a radiologist according to established practices and standards.	160 4 BA	A None None	\$34.69 \$72,150
Radio and Television Announcers - 27-3011 - Speak or read from scripted materials, such as news reports or commercial messages, on radio or television. May announce artist or title of performance, identify station, or interview guests.	1,044 35 BA	B None None	\$15.40 \$32,040
Real Estate Brokers - 41-9021 - 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.	297 6 D	HS 1 to 5 None	\$43.27 \$89,990
Real Estate Sales Agents - 41-9022 - 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.	1,645 35 D	HS None LOJT	\$15.94 \$33,150
Receptionists and Information Clerks - 43-4171 - Answer inquiries and provide information to the general public, customers, visitors, and other interested parties regarding activities conducted at establishment and location of departments, offices, and employees within the organization.	8,314 335 BA	HS None SOJT	\$10.96 \$22,800
Recreational Therapists - 29-1125 - Plan, direct, or coordinate medically-approved recreation programs for patients in hospitals, nursing homes, or other institutions. Activities include sports, trips, dramatics, social activities, and arts and crafts. May assess a patient condition and recommend appropriate recreational activity.	180 7 A	B None None	\$16.99 \$35,350
Recreational Vehicle Service Technicians - 49-3092 - Diagnose, inspect, adjust, repair, or overhaul recreational vehicles including travel trailers. May specialize in maintaining gas, electrical, hydraulic, plumbing, or chassis/towing systems as well as repairing generators, appliances, and interior components.	189 6 A	HS None LOJT	\$13.67 \$28,430
Refractory Materials Repairers, Except Brickmasons - 49-9045 - Build or repair equipment such as furnaces, kilns, cupolas, boilers, converters, ladles, soaking pits and ovens, using refractory materials.	23 0 BA	PS None MOJT	\$24.33 \$50,610

Occupation	Job Outlook	Education	Earnings
Registered Nurses - 29-1111 - 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.	23,774 666 A	A None None	\$27.40 \$56,990
Rehabilitation Counselors - 21-1015 - Counsel individuals to maximize the independence and employability of persons coping with personal, social, and vocational difficulties that result from birth defects, illness, disease, accidents, or the stress of daily life.	281 9 A	M None None	\$16.96 \$35,290
Reporters and Correspondents - 27-3022 - Collect and analyze facts about newsworthy events by interview, investigation, or observation. Report and write stories for newspaper, news magazine, radio, or television.	525 18 D	B None None	\$14.63 \$30,430
Residential Advisors - 39-9041 - Coordinate activities in resident facilities in secondary and college dormitories, group homes, or similar establishments. Order supplies and determine need for maintenance, repairs, and furnishings. May maintain household records and assign rooms. May assist residents with problem solving or refer them to counseling resources.	1,134 54 A	SC -1 SOJT	\$12.68 \$26,380
Respiratory Therapists - 29-1126 - 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.	970 30 A	A None None	\$22.56 \$46,930
Retail Salespersons - 41-2031 - Sell merchandise, such as furniture, motor vehicles, appliances, or apparel to consumers.	35,113 1,530 A	LHS None SOJT	\$10.80 \$22,470
Riggers - 49-9096 - Set up or repair rigging for construction projects, manufacturing plants, logging yards, ships and shipyards, or for the entertainment industry.	94 3 A	HS None SOJT	\$18.11 \$37,660
Rock Splitters, Quarry - 47-5051 - Separate blocks of rough dimension stone from quarry mass using jackhammer and wedges.	135 2 BA	HS None MOJT	\$15.42 \$32,080
Rolling Machine Setters, Operators, and Tenders, Metal and Plastic - 51-4023 - Set up, operate, or tend machines to roll steel or plastic forming bends, beads, knurls, rolls, or plate or to flatten, temper, or reduce gauge of material.	418 16 A	HS None MOJT	\$14.06 \$29,250
Roofers - 47-2181 - Cover roofs of structures with shingles, slate, asphalt, aluminum, wood, or related materials. May spray roofs, sidings, and walls with material to bind, seal, insulate, or soundproof sections of structures.	842 16 D	LHS None MOJT	\$15.20 \$31,620
Rotary Drill Operators, Oil and Gas - 47-5012 - Set up or operate a variety of drills to remove underground oil and gas, or remove core samples for testing during oil and gas exploration.	640 28 A	LHS None MOJT	\$23.21 \$48,270
Roustabouts, Oil and Gas - 47-5071 - Assemble or repair oil field equipment using hand and power tools. Perform other tasks as needed.	1,014 49 AA	LHS None MOJT	\$17.90 \$37,230
Sales Engineers - 41-9031 - Sell business goods or services, the selling of which requires a technical background equivalent to a baccalaureate degree in engineering.	209 6 BA	B None MOJT	\$38.77 \$80,630
Sales Managers - 11-2022 - Plan, direct, or coordinate 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.	3,008 100 BA	B 1 to 5 None	\$48.40 \$100,670
Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products - 41-4012 - Sell goods for wholesalers or manufacturers to businesses or groups of individuals. Work requires substantial knowledge of items sold.	12,873 310 BA	HS None MOJT	\$26.42 \$54,950
Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products - 41-4011 - 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.	2,276 78 A	B None MOJT	\$35.40 \$73,630
Sawing Machine Setters, Operators, and Tenders, Wood - 51-7041 - Set up, operate, or tend wood sawing machines. May operate CNC equipment. Includes lead sawyers.	1,188 23 D	HS None SOJT	\$11.67 \$24,270
Secondary School Teachers, Except Special and Career/Technical Education - 25-2031 - Teach students in one or more subjects, such as English, mathematics, or social studies at the secondary level in public or private schools. May be designated according to subject matter specialty.	9,797 266 D	B None I/R	N/A \$46,710
Secretaries and Administrative Assistants, Except Legal, Medical, and Executive - 43-6014 - Perform routine clerical and administrative functions such as drafting correspondence, scheduling appointments, organizing and maintaining paper and electronic files, or providing information to callers.	21,416 284 D	HS None SOJT	\$12.96 \$26,950
Securities, Commodities, and Financial Services Sales Agents - 41-3031 - Buy and sell securities or commodities in investment and trading firms, or provide financial services to businesses and individuals. May advise customers about stocks, bonds, mutual funds, commodities, and market conditions.	1,033 38 BA	B None MOJT	\$48.47 \$100,810
Security and Fire Alarm Systems Installers - 49-2098 - Install, program, maintain, and repair security and fire alarm wiring and equipment. Ensure that work is in accordance with relevant codes.	380 15 A	HS None MOJT	\$15.20 \$31,620
Septic Tank Servicers and Sewer Pipe Cleaners - 47-4071 - Clean and repair septic tanks, sewer lines, or drains. May patch walls and partitions of tank, replace damaged drain tile, or repair breaks in underground piping.	116 4 A	LHS None MOJT	\$14.98 \$31,160
Service Unit Operators, Oil, Gas, and Mining - 47-5013 - 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. Includes fishing-tool technicians.	488 26 AA	LHS None MOJT	\$19.89 \$41,360
Sewing Machine Operators - 51-6031 - Operate or tend sewing machines to join, reinforce, decorate, or perform related sewing operations in the manufacture of garment or nongarment products.	1,311 8 D	LHS None SOJT	\$9.67 \$20,110
Sheet Metal Workers - 47-2211 - Fabricate, assemble, install, and repair sheet metal products and equipment, such as ducts, control boxes, drainpipes, and furnace casings.	1,354 22 D	HS None App	\$15.12 \$31,450

Occupation	Job Outlook	Education	Earnings
Shipping, Receiving, and Traffic Clerks - 43-5071 - Verify and maintain 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.	5,393 136 D	HS None SOJT	\$13.38 \$27,830
Shoe and Leather Workers and Repairers - 51-6041 - Construct, decorate, or repair leather and leather-like products, such as luggage, shoes, and saddles.	113 4 D	HS None MOJT	\$9.59 \$19,950
Skin Care Specialists - 39-5094 - Provide skincare treatments to face and body to enhance an individual's appearance. Includes electrologists and laser hair removal specialists.	176 5 A	PS None None	\$20.20 \$42,020
Slaughterers and Meat Packers - 51-3023 - Work in slaughtering, meat packing, or wholesale establishments performing precision functions involving the preparation of meat. Work may include specialized slaughtering tasks, cutting standard or premium cuts of meat for marketing, making sausage, or wrapping meats.	1,050 30 D	LHS None MOJT	\$11.64 \$24,220
Social and Community Service Managers - 11-9151 - Plan, direct, or coordinate the activities of a social service program or community outreach organization. Oversee the program or organization's budget and policies regarding participant involvement, program requirements, and benefits. Work may involve directing social workers, counselors, or probation officers.	1,153 34 BA	B 1 to 5 None	\$24.26 \$50,470
Social and Human Service Assistants - 21-1093 - Assist in providing client services in a wide variety of fields, such as psychology, rehabilitation, or social work, including support for families. May assist clients in identifying and obtaining available benefits and social and community services.	4,777 167 A	HS None SOJT	\$12.14 \$25,250
Software Developers, Applications - 15-1132 - Develop, create, and modify general computer applications software or specialized utility programs. Analyze user needs and develop software solutions. Design software or customize software for client use with the aim of optimizing operational efficiency.	1,566 51 A	B None None	\$35.36 \$73,550
Software Developers, Systems Software - 15-1133 - 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. Set operational specifications and formulate and analyze software requirements.	824 32 AA	B None None	\$35.59 \$74,040
Sound Engineering Technicians - 27-4014 - Operate machines and equipment to record, synchronize, mix, or reproduce music, voices, or sound effects in sporting arenas, theater productions, recording studios, or movie and video productions.	50 2 BA	PS None SOJT	\$19.86 \$41,300
Special Education Teachers, Secondary School - 25-2054 - Teach secondary school subjects to educationally and physically handicapped students. Includes teachers who specialize and work with audibly and visually handicapped students and those who teach basic academic and life processes skills to the mentally impaired.	1,125 32 D	B None I/R	N/A \$47,900
Speech-Language Pathologists - 29-1127 - 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.	1,925 68 A	M None None	\$33.24 \$69,150
Stationary Engineers and Boiler Operators - 51-8021 - Operate or maintain stationary engines, boilers, or other mechanical equipment to provide utilities for buildings or industrial processes. Operate equipment, such as steam engines, generators, motors, turbines, and steam boilers.	432 10 D	HS None LOJT	\$17.62 \$36,650
Stock Clerks and Order Fillers - 43-5081 - 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.	15,573 396 D	LHS None SOJT	\$10.40 \$21,640
Stonemasons - 47-2022 - Build stone structures, such as piers, walls, and abutments. Lay walks, curbstones, or special types of masonry for vats, tanks, and floors.	129 4 A	HS None App	\$12.65 \$26,320
Structural Iron and Steel Workers - 47-2221 - Raise, place, and unite iron or steel girders, columns, and other structural members to form completed structures or structural frameworks. May erect metal storage tanks and assemble prefabricated metal buildings.	644 12 D	HS None App	\$17.62 \$36,660
Structural Metal Fabricators and Fitters - 51-2041 - Fabricate, position, align, and fit parts of structural metal products.	813 18 BA	HS None MOJT	\$16.67 \$34,680
Substance Abuse and Behavioral Disorder Counselors - 21-1011 - Counsel and advise individuals with alcohol, tobacco, drug, or other problems, such as gambling and eating disorders. May counsel individuals, families, or groups or engage in prevention programs.	602 22 A	HS None MOJT	\$19.02 \$39,550
Surgeons - 29-1067 - Physicians who treat diseases, injuries, and deformities by invasive, minimally-invasive, or non-invasive surgical methods, such as using instruments, appliances, or by manual manipulation.	438 10 BA	D None I/R	\$112.35 \$233,690
Surgical Technologists - 29-2055 - Assist in operations, under the supervision of surgeons, registered nurses, or other surgical personnel. May help set up operating room, prepare and transport patients for surgery, adjust lights and equipment, pass instruments and other supplies to surgeons and surgeon's assistants, hold retractors, cut sutures, and help count sponges, needles, supplies, and instruments.	961 21 BA	PS None None	\$17.54 \$36,480
Surveying and Mapping Technicians - 17-3031 - Perform surveying and mapping duties, usually under the direction of an engineer, surveyor, cartographer, or photogrammetrist to obtain data used for construction, mapmaking, boundary location, mining, or other purposes.	468 10 BA	HS None MOJT	\$17.22 \$35,810
Surveyors - 17-1022 - 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.	485 16 A	B None None	\$20.57 \$42,780
Tax Examiners, Collectors, and Revenue Agents - 13-2081 - Determine tax liability or collect taxes from individuals or business firms according to prescribed laws and regulations.	784 23 BA	B None MOJT	\$21.50 \$44,730
Technical Writers - 27-3042 - Write technical materials, such as equipment manuals, appendices, or operating and maintenance instructions. May assist in layout work.	118 4 A	B 1 to 5 SOJT	\$21.30 \$44,310
Telecommunications Equipment Installers and Repairers, Except Line Installers - 49-2022 - Install, set-up, rearrange, or remove switching, distribution, routing, and dialing equipment used in central offices or headends. Service or repair telephone, cable television, Internet, and other communications equipment on customers' property.	1,164 20 D	PS None MOJT	\$24.09 \$50,100
Tellers - 43-3071 - Receive and pay out money. Keep records of money and negotiable instruments involved in a financial institution's various transactions.	6,402 308 BA	HS None SOJT	\$10.81 \$22,490

Occupation	Job Outlook	Education	Earnings
Title Examiners, Abstractors, and Searchers - 23-2093 - Search real estate records, examine titles, or summarize pertinent legal or insurance documents or details for a variety of purposes. May compile lists of mortgages, contracts, and other instruments pertaining to titles by searching public and private records for law firms, real estate agencies, or title insurance companies.	690 9 D	HS None SOJT	\$13.89 \$28,880
Tool and Die Makers - 51-4111 - 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.	752 4 D	HS None LOJT	\$17.76 \$36,940
Training and Development Managers - 11-3131 - Plan, direct, or coordinate the training and development activities and staff of an organization.	233 8 A	B 1 to 5 None	\$39.33 \$81,810
Training and Development Specialists - 13-1151 - Design and conduct training and development programs to improve individual and organizational performance. May analyze training needs.	1,695 63 A	B None None	\$22.94 \$47,710
Transportation Attendants, Except Flight Attendants - 53-6061 - 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.	57 1 D	HS None SOJT	\$9.48 \$19,710
Transportation Inspectors - 53-6051 - Inspect equipment or goods in connection with the safe transport of cargo or people. Includes rail transportation inspectors, such as freight inspectors; rail inspectors; and other inspectors of transportation vehicles, not elsewhere classified.	226 10 A	SC None SOJT	\$26.34 \$54,780
Transportation Security Screeners - 33-9093 - Conduct screening of passengers, baggage, or cargo to ensure compliance with Transportation Security Administration (TSA) regulations. May operate basic security equipment such as x-ray machines and hand wands at screening checkpoints.	210 4 A	HS None MOJT	\$17.40 \$36,190
Transportation, Storage, and Distribution Managers - 11-3071 - Plan, direct, or coordinate transportation, storage, or distribution activities in accordance with organizational policies and applicable government laws or regulations. Includes logistics managers.	987 22 D	HS 5+ None	\$37.93 \$78,890
Heavy and Tractor-Trailer Truck Drivers - 53-3032 - Drive a tractor-trailer combination or a truck with a capacity of at least 26,000 pounds Gross Vehicle Weight (GVW). May be required to unload truck. Requires commercial drivers' license.	32,534 685 BA	HS 1 to 5 SOJT	\$18.33 \$38,130
Urban and Regional Planners - 19-3051 - Develop comprehensive plans and programs for use of land and physical facilities of jurisdictions, such as towns, cities, counties, and metropolitan areas.	85 2 BA	M None None	\$24.29 \$50,530
Veterinarians - 29-1131 - Diagnose, treat, or research diseases and injuries of animals. Includes veterinarians who conduct research and development, inspect livestock, or care for pets and companion animals.	457 8 D	D None None	\$36.27 \$75,450
Veterinary Technologists and Technicians - 29-2056 - 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. Prepare tissue samples, take blood samples, and execute laboratory tests, such as urinalysis and blood counts.	294 4 D	A None None	\$15.05 \$31,290
Waiters and Waitresses - 35-3031 - Take orders and serve food and beverages to patrons at tables in dining establishment.	17,211 957 BA	LHS None SOJT	\$8.59 \$17,870
Weighers, Measurers, Checkers, and Samplers, Recordkeeping - 43-5111 - Weigh, measure, and check materials, supplies, and equipment for the purpose of keeping relevant records. Duties are primarily clerical by nature. Includes workers who collect and keep record of samples of products or materials.	1,461 48 D	HS None SOJT	\$11.90 \$24,760
Welders, Cutters, Solderers, and Brazers - 51-4121 - 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.	4,889 237 A	HS -1 MOJT	\$16.39 \$34,100
Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders - 51-4122 - Set up, operate, or tend welding, soldering, or brazing machines or robots that weld, braze, solder, or heat treat metal products, components, or assemblies. Includes workers who operate laser cutters or laser-beam machines.	492 15 BA	HS None MOJT	\$16.36 \$34,040
Writers and Authors - 27-3043 - Originate and prepare written material, such as scripts, stories, advertisements, and other material.	701 20 BA	B None LOJT	\$26.17 \$54,440
Zoologists and Wildlife Biologists - 19-1023 - Study the origins, behavior, diseases, genetics, and life processes of animals and wildlife. May specialize in wildlife research and management. May collect and analyze biological data to determine the environmental effects of present and potential use of land and water habitats.	184 4 BA	B None None	\$26.06 \$54,200

What do you want to do for a living?



Discover your options!

My Next Move can help you find out!

www.mynextmove.org

My Next Move is an interactive tool for job seekers and students to learn more about their career options. The site has tasks, skills, salary information, and more for over 900 different careers.

Real-Life Arkansas

A "Lifestyle Budget Calculator"



After High School you will need to work to pay for housing, transportation, clothes... Find out how much money you will need and which occupations will pay for all your needs.

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!
www.real-life.arkansas.gov

The Road 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.

Become involved in extra curricular 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.

Visit with your school guidance counselor about possible career paths.

11th

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

Plan a campus visit, and attend local college fairs.

Take the SAT or ACT.

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

12th

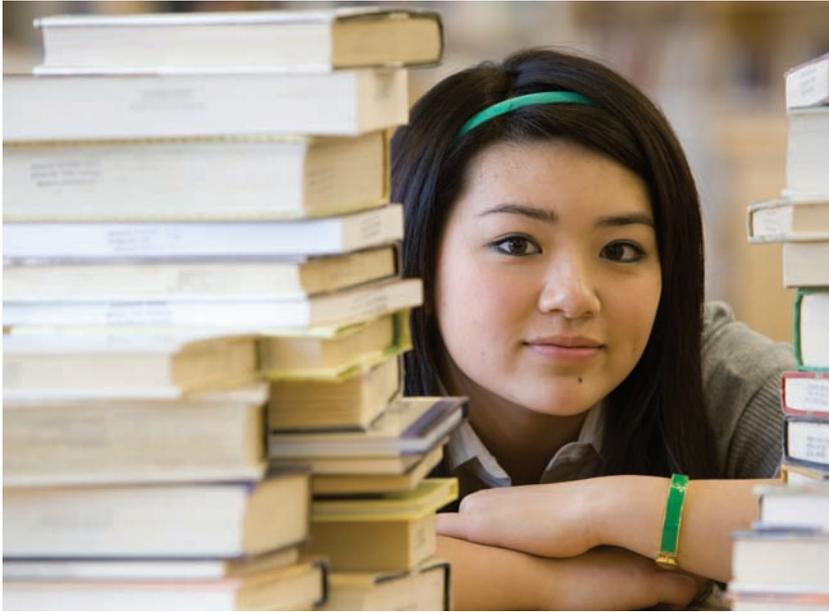
Complete the Free Application for Federal Student Aid to see if you qualify for financial aid, scholarships, and grants after January 1 of your senior year.

Complete Arkansas' online YOUniversal application between September 1 and June 1 to apply for state scholarships and grants.

Attend spring or summer orientation programs for incoming college freshmen.

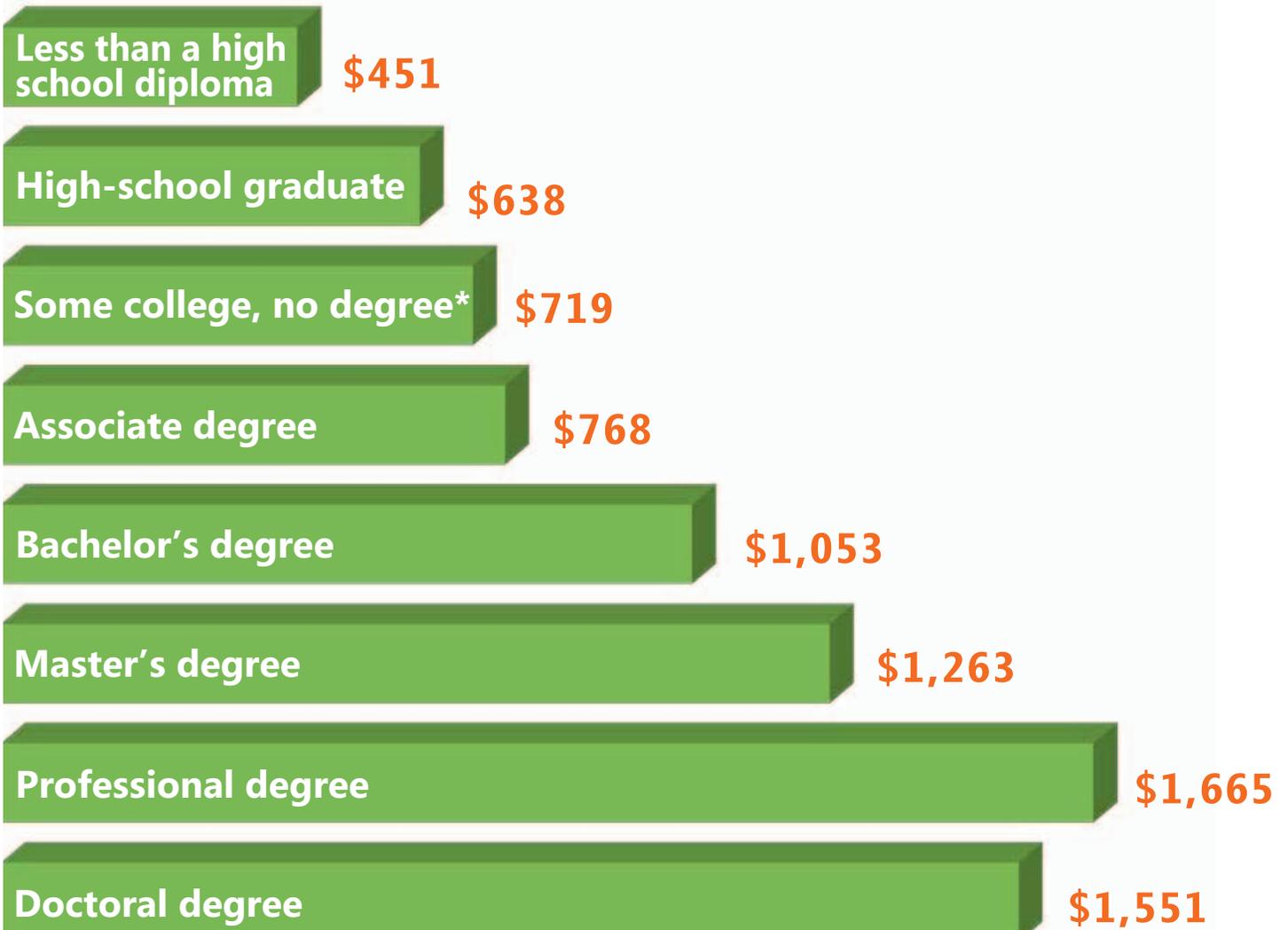


Education Pays

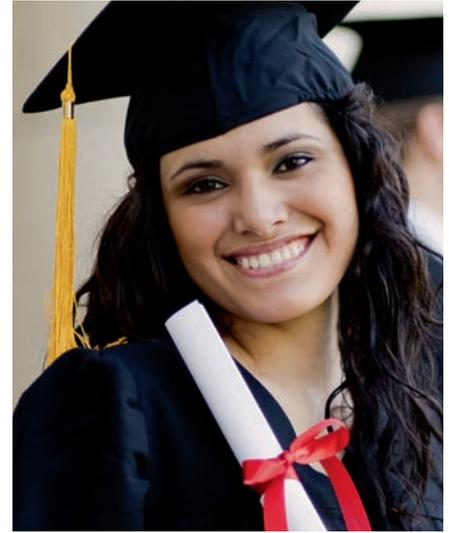
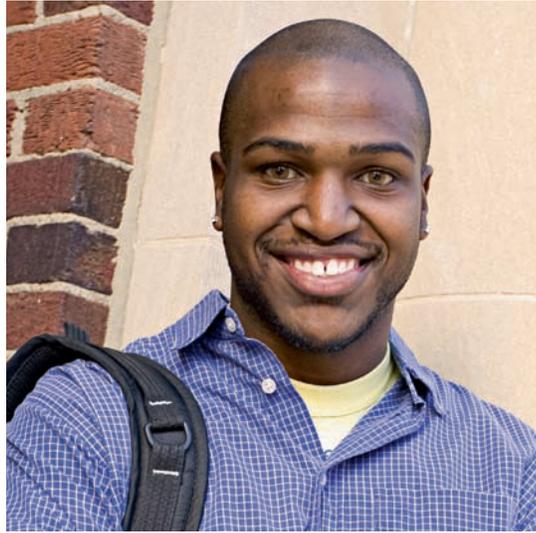


Continuing your education after high school pays off. College graduates over the age of 25 with a bachelor's degree earn \$415 more a week than a high school graduate.

Median weekly wages in 2011. Data are 2011 national annual averages for persons age 25 and over. Earnings are for full-time wage and salary workers. Source: Bureau of Labor Statistics, Current Population Survey.



* Earnings for a person having any post-secondary education that leads to certification or proficiency is not reported in this data. Any education past high school gives you the potential to have higher earnings.



Arkansas Academic Challenge SCHOLARSHIP

LIVING YOUR DREAM THROUGH EDUCATION!

With funding made possible by the
ARKANSAS SCHOLARSHIP LOTTERY,
the Arkansas Academic Challenge Scholarship provides opportunities
for higher education to Arkansans.

If you're planning to attend college in the fall, complete the YOUuniversal financial aid application by June 1 at www.adhe.edu or download the free YOUuniversal app for your smart phone.



ADHE | Financial Aid Division | 114 East Capitol Avenue | Little Rock, AR 72201
Email: finaid@adhe.edu | (800) 54-STUDY | (501) 371-2050 – Greater Little Rock | www.adhe.edu



An Arkansas Workforce Center Can....

- Assist with finding employment.
- Provide access to the Arkansas Joblink System.
- Assist job seekers with creating resumes and provide interviewing tips.
- Provide labor market information, including jobs in demand around the state.
- Assess training needs.
- Assist those filing for unemployment insurance.
- All of these services are FREE!

To find an Arkansas Workforce Center, go to www.dws.arkansas.gov.
To search for jobs, go to www.arjoblink.arkansas.gov.



**Partners...
for a Better Workforce.**



High School Students:

Assess, Evaluate and Improve Your Job Opportunities

Do you

- want to assure employers that you have the necessary skills for the job?
- desire a skills credential that increases your employability?
- want to set the stage for possible career advancement?

Then you need an Arkansas Career Readiness Certificate!

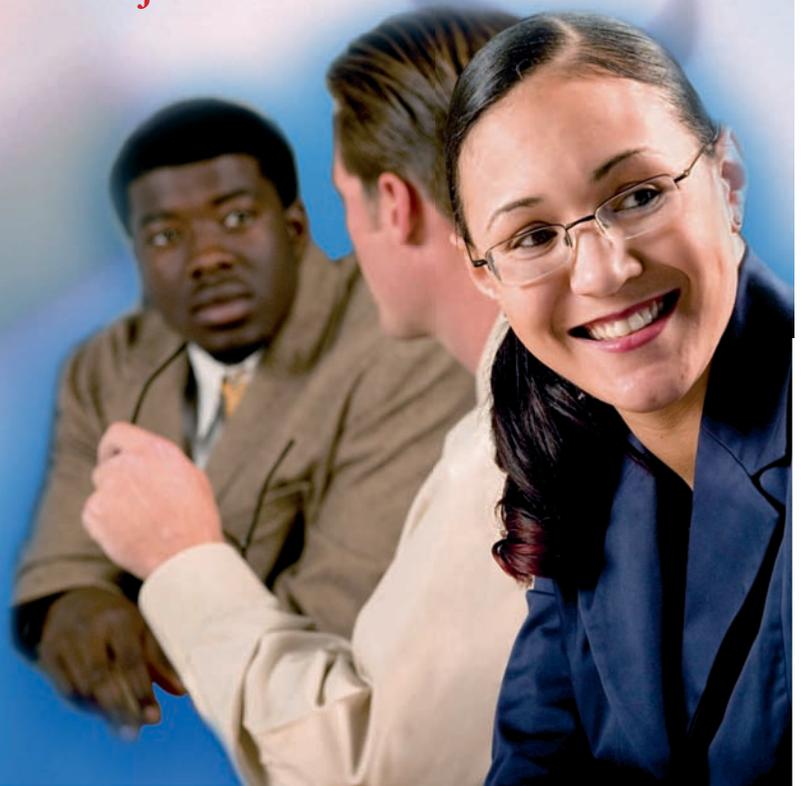
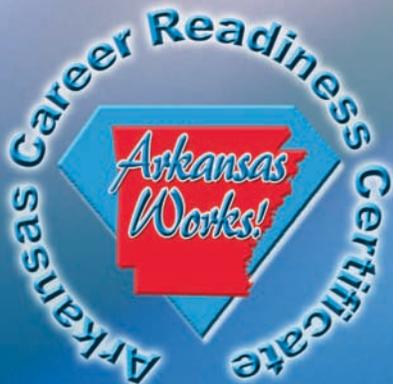
The Governor's Workforce Cabinet implemented the Arkansas Career Readiness Certificate in January 2008. Since then, more than 30,000 certificates have been issued, and more than 2,600 employers have hired job seekers who have the credential.

The certificate is a portable credential signed by Governor Mike Beebe that confirms to employers that you have the basic workplace skills in Reading for Information, Applied Mathematics and Locating Information – skills that *all* jobs require.

The best part, it's free! Many high schools with the Career Technical Education Work-Ready Curriculum are participating. To find out if your school is one of them, go to www.ArkansasAtWork.org, call 1-866-757-2999 or contact your nearest Arkansas Workforce Center.

**Get your Arkansas Career Readiness Certificate.
Get the job!**

"Equal Opportunity Employer/Program"
"Auxiliary aids and services are available upon request to individuals with disabilities."
Voice 1-800-285-1121
TDD 1-800-285-1131





Arkansas Disability Employment Initiative



Helping youth with disabilities achieve self-sufficiency by improving access to educational, training, and employment opportunities.

Arkansas Workforce Centers offer a full range of services and referrals for youths who are:

- Disabled – Visible & Non-visible
- Low Income
- Runaway/Homeless/Foster Care
- High School Dropout or Deficient
- Pregnant/Parenting
- Offender
- Child of Incarcerated Parent(s)
- Drug and/or Alcohol Dependent

The services we provide include:

- Career Counseling and Development
- Resume and Interviewing Assistance
- Full and Part-time Job Listings
- Job Referrals and Placement
- Online Job Search
- Career Fairs
- Educational and Training Programs
- CRC Assessment and Certification
- Veteran's Services
- Ticket to Work

www.dws.arkansas.gov



How Do I Find My Local Workforce Center?

Like many young people you may be facing some challenges. The Disability Employment Initiative project is available to assist people like you – youth that may need some help and are not sure where to go.

If you have Internet access, you can check us out at <http://www.dws.arkansas.gov>. If you don't have Internet access, you can try looking in the yellow pages for your local Workforce Center or call toll free 1-855-225-4440.

Your Disability Resource Coordinators are here to help you.

To find out more, call or visit our office today!

Fayetteville Workforce Center
2143 West Martin Luther King Blvd,
Fayetteville, AR 72701
(479) 521-5730
Servicing these counties: Baxter, Benton, Boone, Carroll, Madison, Marion, Newton, Searcy, and Washington.

Russellville Workforce Center
104 South Rochester Avenue,
Russellville, AR 72801
(479) 968-2784
Servicing these counties: Clark, Conway, Garland, Hot Springs, Johnson, Montgomery, Perry, Pike, Pope, and Yell.

Pine Bluff Workforce Center
1001 South Tennessee Street,
Pine Bluff, AR 71601
(870) 534-1920
Servicing these counties: Arkansas, Ashley, Bradley, Chicot, Cleveland, Desha, Drew, Grant, Jefferson, and Lincoln.

West Memphis Workforce Center
Located at Mid-South Community College
2003 West Broadway
West Memphis, AR 72301
(870) 400-2269
Servicing these counties: Cross, Crittenden, Lee, Phillips, and St Francis.



NATIONAL GUARD 
NATIONALGUARD.com • 1-800-GO-GUARD

- 100% College Tuition Assistance
 - Paid Skill Training
 - Free CLEP Testing at the University of Central Arkansas test site
 - Free ACT testing at the National Guard Education Office
- PROUDLY SERVE YOUR COMMUNITY AND NATION!**



TO BIG TOBACCO, YOU'RE JUST ANOTHER LAB RAT.



Big Tobacco has developed cigarettes with additives that numb the throat, making smoking less painful for teens. Don't let Big Tobacco manipulate you.



SOS
STAMP OUT SMOKING
stampoutsmoking.com
1-800-QUIT-NOW

So, you want to be a pro athlete?

You may have what it takes, but let's take a look at the chances.

More than 2 million students play sports in high school, so let's be realistic. Someone may be better or faster than you, and what if you have a career-ending injury?

Have a back-up plan.

There are several occupations that will keep you in the game.

Estimated Probability of Competing in Athletics Beyond the High School Interscholastic Level

Student Athletes	Men's Basketball	Women's Basketball	Football	Baseball
Percent High School to NCAA	3.20%	3.60%	6.10%	6.60%
Percent NCAA to Professional	1.20%	0.90%	1.70%	11.60%
Percent High School to Professional	0.03%	0.03%	0.08%	0.60%

Note: These percentages are based on estimated data and should be considered approximations of the actual percentages.

Coaches and Scouts

Reporters and Correspondents

Public Relation Specialists

Photographers

Athletic Trainers

Physical Therapists



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Education and Training

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