

# CAREER WATCH

## ARKANSAS

### Health Science

It's not a job. It's a career.  
2014 EDITION | Volume 23

Occupations  
Interviews  
Resumes  
Colleges  
Financial Aid  
Scholarships



[www.careerwatch.org](http://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 field of Health Science. Career specialties in this high-growth arena offer many opportunities, including the planning, managing, and providing of therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development. From ambulance drivers and audiologists to sports medicine physicians and pharmacists to radiologists or EMTs, there are thousands of challenging careers to choose from within these highly skilled worlds. If you want to be a nurse or dietitian, a veterinarian, a cardiovascular technologist, or any of the other pathway options offered in Health Science 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,

Mike Beebe

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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](http://www.careerwatch.org).

The Career Watch Arkansas Teacher's Guide and other educational materials are available in PDF format at: [www.discover.arkansas.gov](http://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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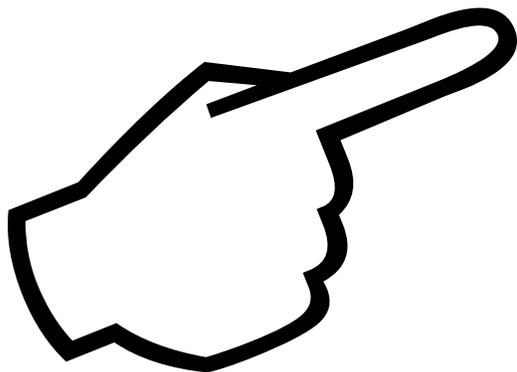
"Equal Opportunity Employer/Programs"  
"Auxiliary aids and services are available upon request to individuals with disabilities."

# We want your input!

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

Go to [www.careerwatch.org](http://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.



**Take the Survey!**

# Help us out!

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  
Satisfied  
Indifferent  
Dissatisfied  
Very Dissatisfied

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Industry or Technology Study  
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**How useful was the information?**

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**Please indicate what sector you represent.**

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Dislocated Worker  
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Yes No

**What could make *Career Watch Arkansas* more useful?**

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# Health Science

The planning, managing, and providing of therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.

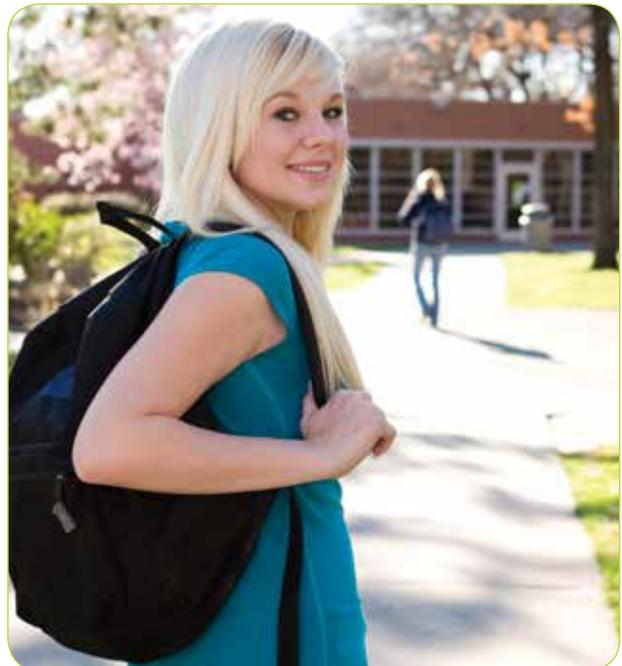
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# Get Attention!

## 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.



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### Why have a *GREAT* Resume?

- Grab the attention of employers and recruiters
- Sell your strongest skills and accomplishments
- Show why you are a potential match for a position or project
- Communicate your current capabilities and future potential
- It helps you take the next step in your career
- It gets you the interview!

---

### Top Resume Strategies

Go beyond the standard resume.

Here are four strategies to make your resume unique:

**Sell yourself** - Identify what makes you different from other applicants.

**Identify your transferable skills** - These skills are major selling points that set you apart.

**Highlight your accomplishments** - Listing accomplishments give you credibility.

**Use keywords effectively** - Specific words used in your resume are critical to communicate your value to an organization.

# Types of resumes

For more information and examples, go to [www.careerinfonet.org](http://www.careerinfonet.org) and click on "Resumes + Interviews."

## 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.

## 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.

## 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.



- Keep the resume to one or two pages, no more.
- Always include a cover letter with 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.
- 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@yahoo.com won't cut it. If needed, create a new account just for this purpose.
- 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.

# Get the Job!

## The Interview

Your resume has caught the attention of a perspective employer, and you have an interview.

What's the next step?

Here are a few tips to help you ace the interview.

### **Wear the Right Outfit.**

Check with the HR department for the company's dress code. Wear clean, pressed, conservative clothes in neutral colors. Avoid excessive 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. Show up 10 to 15 minutes early; 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.

### **Send a Thank You Note.**

Here's your chance to make a final impression on the interviewer. You may find it is much appreciated and remembered.



## 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, such as:

- 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?
- What is an average day on this job like?
- How would you describe the ideal candidate?
- What kind of training and/or professional development programs do you have?

# Top 10 Occupations by Education Level

**Different occupations need different types of training. Some require only on-the-job training, while others require an advanced degree. The jobs listed below are projected to be the top growing occupations by education level through 2015.**

*Based on State of Arkansas' 2013-2015 Short-term Occupational Projections Net Growth*

## High School or Less

Personal Care Aides  
Retail Salespersons  
Janitors and Cleaners, Except Maids and Housekeeping Cleaners  
Combined Food Preparation and Serving Workers, Including Fast Food  
Customer Service Representatives  
Laborers and Freight, Stock, and Material Movers, Hand  
Secretaries and Administrative Assistants, Except Legal, Medical, and Executive  
Home Health Aides  
First-Line Supervisors of Office and Administrative Support Workers  
Bookkeeping, Accounting, and Auditing Clerks



## Associate Degree or Vocational Training

Heavy and Tractor-Trailer Truck Drivers  
Registered Nurses  
Licensed Practical and Licensed Vocational Nurses  
Nursing Assistants  
Dental Assistants  
Computer User Support Specialists  
Dental Hygienists  
Aircraft Mechanics and Service Technicians  
Medical Assistants  
Firefighters



## Bachelor's Degree or Higher

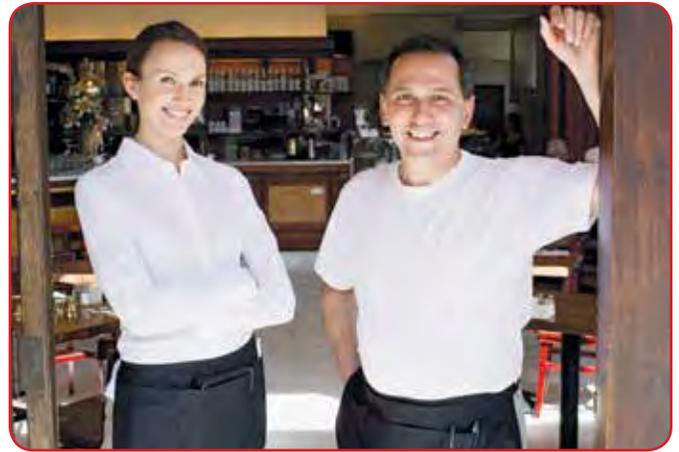
General and Operations Managers  
Accountants and Auditors  
Clergy  
Market Research Analysts and Marketing Specialists  
Elementary School Teachers, Except Special Education  
Logisticians  
Computer Systems Analysts  
Software Developers, Applications  
Lawyers  
Management Analysts



# Top 20 Occupations for Growth & Decline

## What's Hot, What's Not

Based on State of Arkansas' 2013-2015 Short-term Occupational Projections Net Growth



### Growth

- Personal Care Aides
- Retail Salespersons
- Heavy and Tractor-Trailer Truck Drivers
- Janitors and Cleaners, Except Maids and Housekeeping Cleaners
- Combined Food Preparation and Serving Workers, Including Fast Food
- Customer Service Representatives
- Laborers and Freight, Stock, and Material Movers, Hand
- Registered Nurses
- Secretaries and Administrative Assistants, Except Legal, Medical, and Executive
- Home Health Aides
- General and Operations Managers
- Licensed Practical and Licensed Vocational Nurses
- First-Line Supervisors of Office and Administrative Support Workers
- Accountants and Auditors
- Bookkeeping, Accounting, and Auditing Clerks
- Cashiers
- Office Clerks, General
- Cooks, Restaurant
- Waiters and Waitresses
- First-Line Supervisors of Retail Sales Workers

### Decline

- Childcare Workers
- Tellers
- Bus Drivers, School or Special Client
- Postal Service Mail Carriers
- Farmers, Ranchers, and Other Agricultural Managers
- Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic
- Sewing Machine Operators
- Meat, Poultry, and Fish Cutters and Trimmers
- Data Entry Keyers
- Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic
- Driver/Sales Workers
- Preschool Teachers, Except Special Education
- Reporters and Correspondents
- Postal Service Mail Sorters, Processors, and Processing Machine Operators
- Roustabouts, Oil and Gas
- Postal Service Clerks
- Secondary School Teachers, Except Special and Career/Technical Education
- Switchboard Operators, Including Answering Service
- Slaughterers and Meat Packers
- Reservation and Transportation Ticket Agents and Travel Clerks

# Skills to Pay the Bills



They say everyone is 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.

## 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.

## Speaking

Talking to others to convey information effectively.

## Reading Comprehension

Understanding written sentences and paragraphs in work related documents.

## Social Perceptiveness

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

## Critical Thinking

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

## Instructing

Teaching others how to do something.

## Writing

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

## Learning Strategies

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

## Operation and Control

Controlling operations of equipment or systems.

## Judgment and Decision Making

Considering the relative costs and benefits of potential actions to choose the most appropriate one.

# Health Science



The planning, managing and providing of therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.

Careers in Health Science can be fulfilling and rewarding. With an aging population, careers in this Career Cluster will require high-skill workers with experience in healthcare and business administration and will be in high demand.

It is essential to have good people and communication skills for these careers, since you could work directly with patients and will work as part of a team. For these occupations, you will also need a strong background in math, science, as well as technical skills.

Your education and training can begin in high school with the Medical Professional pathway or at a postsecondary school. From a Certificate of Proficiency to a Doctoral Degree, many Health Science degree programs can be found at Arkansas technical schools, two-year colleges, and four-year universities.

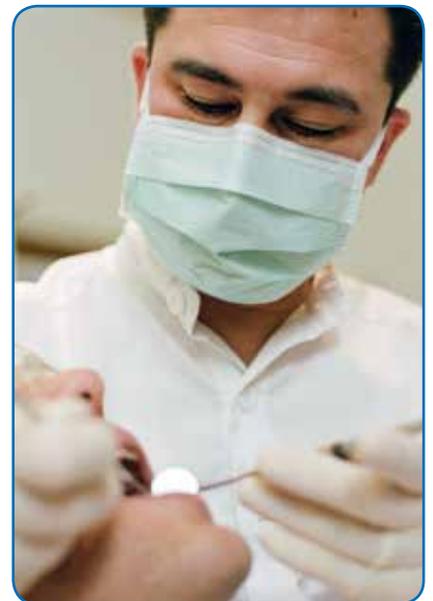
You can gain knowledge and skills through workplace experiences such as site visits, job shadowing, and internships. If you choose a career that works directly with patients, you may

need a license, certification, or registration.

Occupations in the Health Science Career Cluster are projected to be some of the fastest growing in our economy, as well as some of the highest paying jobs. More than 260,000 Arkansans are expected to be employed in Health Science occupations by 2022. And more than half of the occupations in this Career Cluster make an annual salary above Arkansas' mean annual wage of \$37,340.

Jobs in this Career Cluster can be found at hospitals, offices of health practitioners, nursing and residential care facilities, home healthcare services, and outpatient, laboratory, and other ambulatory care services. Occupations include: Billing and Posting Clerks, Biologists, Diagnostic Medical Sonographers, Epidemiologists, Medical Equipment Preparers, Physical Therapists, Occupational Therapists, and Surgeons.

Remember, any postsecondary education or training you pursue after high school will help you earn more money over your lifetime.



# What are the Health Science Degree Programs?

Almost every university, college, and technical school in Arkansas offers training and education for a career in Health Science. Here are just a few of the programs:

- Addiction Studies
- Athletic Training
- Certified Nursing Assistant
- Communicative Disorders
- Cytotechnology
- Dental Assisting
- Dental Hygiene
- Diagnostic Medical Sonography
- Dietetics
- Electronic Health Record Management
- Emergency Medical Technician
- Environmental Health Sciences
- Health Education
- Health Information Technology
- Health Services Administration
- Medical Coding
- Medical Office Administration
- Medical Transcription

- Medicine
- Mental Health Counseling
- Nuclear Medicine Technology
- Nursing
- Occupational Therapy
- Occupational Therapy Assistant
- Pharmaceutical Sciences
- Pharmacy Technician Science
- Phlebotomy
- Physical Therapist Assistant
- Physical Therapy
- Public Health
- Radiologic Technology
- Rehabilitation Science
- Respiratory Care
- Speech Pathology
- Surgical Technology
- Veterinary Technology





### 29-1041 - Optometrists

Diagnose, manage, and treat conditions and diseases of the human eye and visual system. Examine eyes and visual system, diagnose problems or impairments, prescribe corrective lenses, and provide treatment. May prescribe therapeutic drugs to treat specific eye conditions.

**Earnings (Mean):** \$52.29 per hour/\$108,770 annual

**Estimated workers employed:** 435

**Education:** Doctorate or other professional degree

# I can be a...

These are just a few of the occupations in Health Science. To learn about other occupations, go to <http://online.onetcenter.org/find/> and browse by Career Cluster for more occupations.



### 29-1124 - Radiation Therapists

Provide radiation therapy to patients as prescribed by a radiologist according to established practices and standards.

**Earnings (Mean):** \$35.15 per hour/\$73,110 annual

**Estimated workers employed:** 230

**Education:** Associate Degree



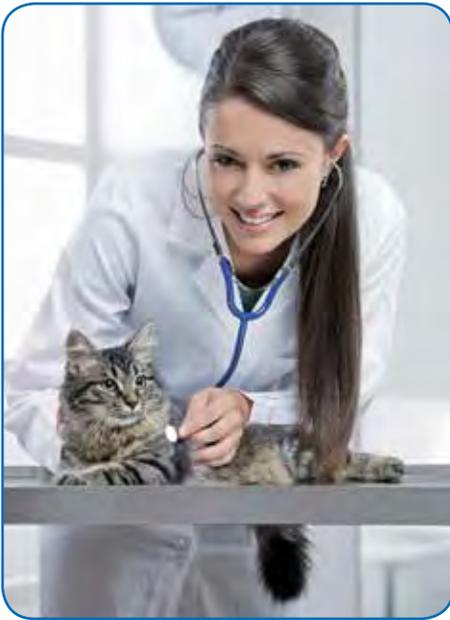
### 31-1011 - Home Health Aides

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.

**Earnings (Mean):** \$8.84 per hour/\$18,390 annual

**Estimated workers employed:** 8,666

**Education:** Less than High School



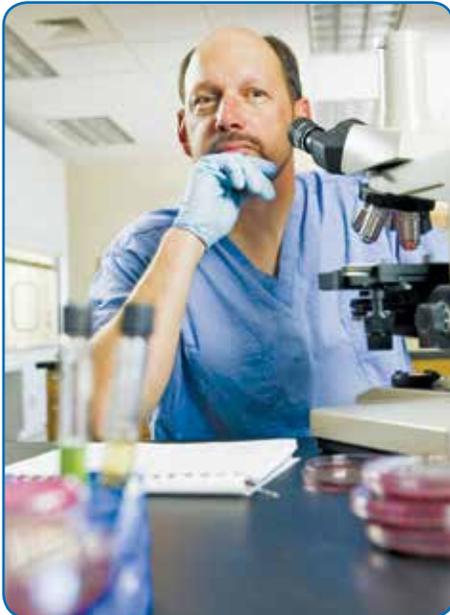
### 29-2056 - Veterinary Technologists and Technicians

Perform medical tests in a laboratory environment for use in the treatment and diagnosis of diseases in animals. Prepare vaccines and serums for prevention of diseases. Prepare tissue samples, take blood samples, and execute laboratory tests, such as urinalysis and blood counts. Clean and sterilize instruments and materials and maintain equipment and machines. May assist a veterinarian during surgery.

**Earnings (Mean):** \$14.53 per hour/\$30,220 annual

**Estimated workers employed:** 276

**Education:** Associate Degree



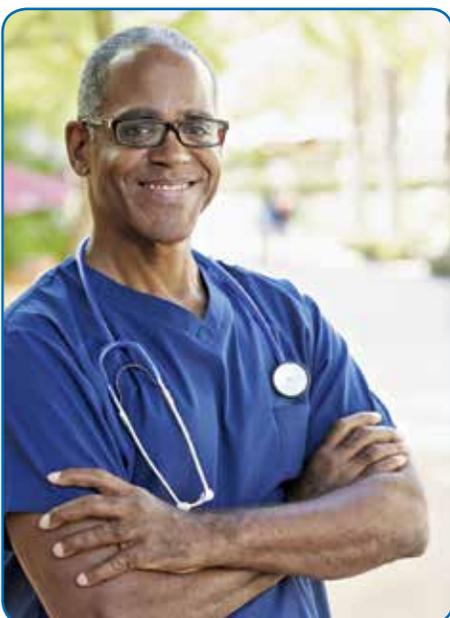
### 11-9121 - Natural Science Managers

Plan, direct, or coordinate activities in such fields as life sciences, physical sciences, mathematics, statistics, and research and development in these fields.

**Earnings (Mean):** \$36.90 per hour/\$76,760 annual

**Estimated workers employed:** 312

**Education:** Bachelor's Degree



### 29-1141 - Registered Nurses

Assess patient health problems and needs, develop and implement nursing care plans, and maintain medical records. Administer nursing care to ill, injured, convalescent, or disabled patients. May advise patients on health maintenance and disease prevention or provide case management. Licensing or registration required.

**Earnings (Mean):** \$27.00 per hour/\$56,150 annual

**Estimated workers employed:** 23,213

**Education:** Associate Degree

# 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 science*

*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*

# Health Science Career Cluster

In high school, Career Clusters are designed to give you the guidance 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 Health Science Career Cluster prepares learners for the planning, managing and providing of therapeutic services, diagnostic services, health

informatics, support services, and biotechnology research and development.

The following pages include: a sample high school class schedule, Career Focus classes that are required for graduation, Health Science programs of study, plus work-based and extra curricular activities, and In Demand occupations — all 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 - Smart Core

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 Principles of Technology	AP Biology AP Chemistry AP Physics Earth & Space Science
Civics	World History	US History	Economics

# Health Science Career Cluster

Pathway - Therapeutic Services  
Program of Study - Medical Professional



## Foundation Courses

Career Orientation  
Computer Technology  
Keyboarding

## Graduation Requirements

English - 4 units  
Math - 4 units  
Science - 3 units  
Social Studies - 3 units  
Fine Arts - ½ unit  
Health and Safety - ½ unit  
Oral Communication - ½ unit  
Physical Education - ½ unit  
Career Focus - 6 units

## Arkansas Challenge

Foreign Language - 2 units

## Program of Study Support Courses

Internship

## Support Courses

Foreign Language  
Word Processing  
Computer Business Applications (CBA)

## Extended Learning Opportunities

Skills USA  
HOSA  
Job Shadowing

## Medical Professions Courses

Human Anatomy and Physiology  
Introduction to Medical Professions

## Medical Professions Electives

Medical Procedures  
Introduction to Medical Professions Expanded  
Introduction to Medical Procedures Expanded  
Abnormal Psychology  
Human Behavior and Disorders  
Medical Terminology  
Pathology  
Pharmacy Technology Fundamentals  
Medical Math  
Medical Clinical Internship/Specialization

## Medical Professions Industry Certifications

Certified Nursing Assistant  
Pharmacy Technician

## Related Programs of Study

Health Informatics  
Sports Medicine

# Health Science In Demand Occupations

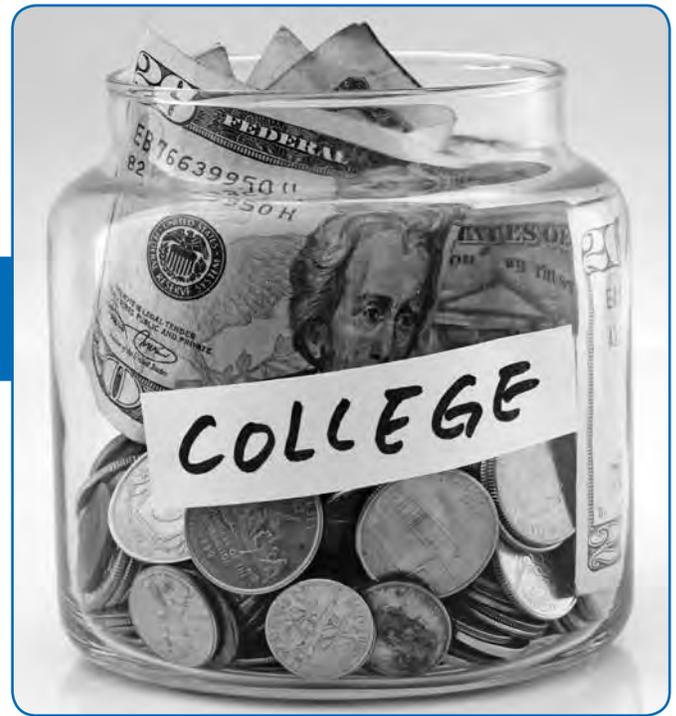
These are occupations that are found in an industry cluster that are projected to add a significant number of new jobs to our state's economy, are existing or emerging occupations being transformed by technology and innovation, or are vital to the overall health of our economy.

Occupation	Wages	Education
Billing and Posting Clerks	\$14.30/\$29,750	High School
Claims Adjusters, Examiners, and Investigators	\$29.21/\$60,760	High School
Computer Programmers	\$32.86/\$68,350	Bachelor's
Dental Assistants	\$14.66/\$30,500	Postsecondary
Dental Hygienists	\$29.34/\$61,030	Associate
Dentists, General	\$73.18/\$152,200	Doctoral or professional degree
Emergency Medical Technicians and Paramedics	\$14.45/\$30,060	Postsecondary
Family and General Practitioners	\$101.25/\$210,600	Doctoral or professional degree
Health Specialties Teachers, Postsecondary	NA/\$107,710	Doctoral or professional degree
Home Health Aides	\$8.84/\$18,390	Less than High School
Licensed Practical and Licensed Vocational Nurses	\$17.22/\$35,810	Postsecondary
Medical and Clinical Laboratory Technicians	\$17.25/\$35,880	Associate
Medical and Clinical Laboratory Technologists	\$23.63/\$49,150	Bachelor's
Medical and Health Services Managers	\$37.58/\$78,170	Bachelor's
Medical Assistants	\$13.02/\$27,080	Postsecondary
Medical Records and Health Information Technicians	\$15.47/\$32,180	Postsecondary
Medical Secretaries	\$13.78/\$28,670	High School
Mental Health and Substance Abuse Social Workers	\$18.00/\$37,440	Bachelor's
Mental Health Counselors	\$24.14/\$50,200	Master's
Nurse Practitioners	\$45.30/\$94,220	Master's
Nursing Assistants	\$10.23/\$21,280	Postsecondary
Nursing Instructors and Teachers, Postsecondary	NA/\$56,120	Master's
Occupational Health and Safety Specialists	\$28.43/\$59,140	Bachelor's
Occupational Therapists	\$37.82/\$78,670	Master's
Opticians, Dispensing	\$16.24/\$33,780	High School
Optometrists	\$52.29/\$108,770	Doctoral or professional degree
Pharmacists	\$52.63/\$109,470	Doctoral or professional degree
Pharmacy Technicians	\$13.05/\$27,140	High School
Physical Therapist Assistants	\$23.32/\$48,510	Associate
Physical Therapists	\$37.04/\$77,040	Doctoral or professional degree
Radiologic Technologists	\$22.42/\$46,620	Associate
Receptionists and Information Clerks	\$11.22/\$23,340	High School
Registered Nurses	\$27.00/\$56,150	Associate
Social and Human Service Assistants	\$13.00/\$27,040	High School
Software Developers, Applications	\$38.29/\$79,640	Bachelor's
Speech-Language Pathologists	\$33.90/\$70,510	Master's
Surgical Technologists	\$19.10/\$39,740	Postsecondary

# 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, postsecondary institutions, and private organizations provide financial aid to eligible students in the form of grants, scholarships, loans, and employment.

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

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

### How much does it cost to attend college?

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

The total cost of attending school today may range from \$2,000 per year to more than \$30,000 per year. Financial Aid programs have been created to help you pay 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. The FAFSA application can be applied for online at [www.fafsa.gov](http://www.fafsa.gov).

#### **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*



[www.adhe.edu](http://www.adhe.edu)

[www.arkcollege101.com](http://www.arkcollege101.com)

[www.asla.info](http://www.asla.info)

[www.careeronestop.org](http://www.careeronestop.org)

[www.careerwatch.org](http://www.careerwatch.org)

[www.discover.arkansas.gov](http://www.discover.arkansas.gov)

[www.fafsa.gov](http://www.fafsa.gov)

[www.fundmyfuture.info](http://www.fundmyfuture.info)

[www.going2college.org](http://www.going2college.org)

[www.knowhow2go.org](http://www.knowhow2go.org)

[www.mappingyourfuture.org](http://www.mappingyourfuture.org)

[www.nces.ed.gov/collegenavigator](http://www.nces.ed.gov/collegenavigator)

[www.saygocollege.com](http://www.saygocollege.com)

[www.slgfa.org](http://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 postsecondary entities. In addition, the agency is responsible for distributing approximately \$150 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 are eligible for the Governor's Distinguished Scholarship and may 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.

**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 2014 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](http://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](mailto: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.

# YOUuniversal

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 YOUuniversal 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 YOUuniversal logo to get started. Applicants can also download the YOUuniversal app for their smart phones at **www.arkansas.gov**.

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.gov** to fill out your form.

Applicants can begin applying for Federal Student Aid after January 1, 2015, for the 2015-2016 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.

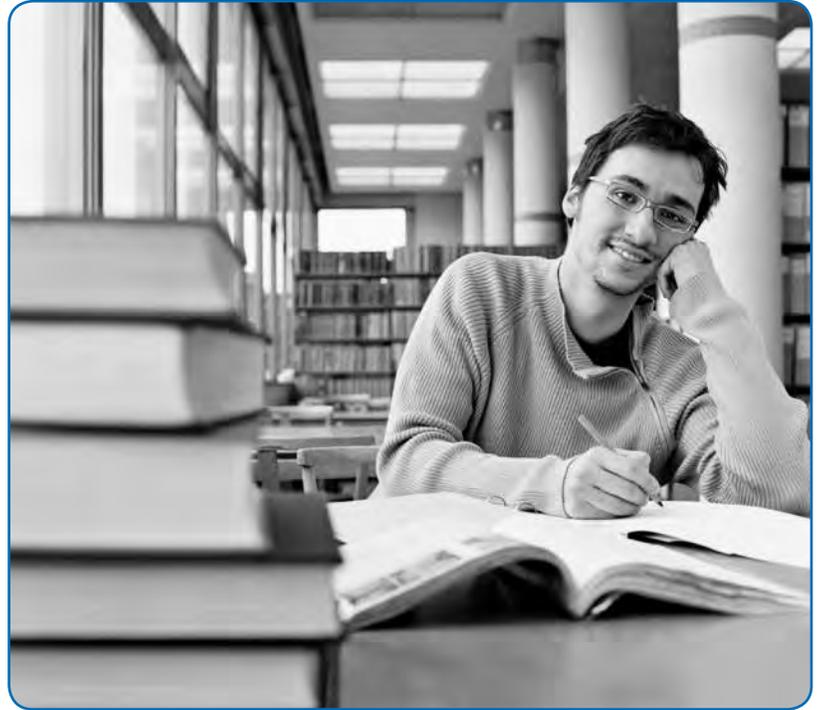
**Work-Study** – Federal Work-Study (FWS) provides part-time jobs for undergraduate and graduate students with financial need, allowing them to earn money to help pay education expenses. The program encourages community service work and work related to the recipient's course of study.

# Arkansas Colleges & Universities

Full-time annualized tuition for public institutions is based on Arkansas Department of Higher Education estimates of 15 credit hours, plus mandatory fees per semester, for the 2013-2014 school year.

Full-time annual 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

501-420-1200

[www.arkansasbaptist.edu](http://www.arkansasbaptist.edu)

1621 Dr. Martin Luther King Jr. Drive, Little Rock, AR 72202

**Private:** 4-year

**Enrollment:** 1,003

**Tuition:** \$9,790

**Admissions:** 501-492-0538, [admissions@arkansasbaptist.edu](mailto:admissions@arkansasbaptist.edu)

**Financial Aid:** 501-374-0804, [financialaid@arkansasbaptist.edu](mailto:financialaid@arkansasbaptist.edu)

**Housing:** 501-244-5164

## Arkansas Northeastern College

870-762-1020

[www.anc.edu](http://www.anc.edu)

2501 South Division St., Blytheville, AR 72315

**Public:** 2-year

**Enrollment:** 1,425

**Tuition:** \$2,390

**Admissions:** 870-838-2955

**Financial Aid:** 870-762-3103

**Other Locations:** Burdette, Leachville, Osceola, Paragould

## Arkansas State University

870-972-2100

[www.astate.edu](http://www.astate.edu)

PO Box 600, State University, AR 72467

**Public:** 4-year

**Enrollment:** 13,552

**Tuition:** \$7,510

**Admissions:** 870-972-2031, [admissions@astate.edu](mailto:admissions@astate.edu)

**Financial Aid:** 870-972-2310, [finaid@astate.edu](mailto:finaid@astate.edu)

**Housing:** 870-972-2042, [reslife@astate.edu](mailto:reslife@astate.edu)

**Other Locations:** Paragould

## Arkansas State University at Beebe

800-632-9985, 501-882-3600

[www.asub.edu](http://www.asub.edu)

1000 Iowa St., P.O. Box 1000, Beebe, AR 72012

**Public:** 2-year

**Enrollment:** 4,380

**Tuition:** \$3,120

**Admissions:** 501-882-8860, 800-632-9985

**Financial Aid:** 501-882-8845, [finaid@asub.edu](mailto:finaid@asub.edu)

**Housing:** 501-882-4491

**Other Locations:** Heber Springs, Little Rock Air Force Base, Searcy

## Arkansas State University at Mountain Home

870-508-6100

[www.asumh.edu](http://www.asumh.edu)

1600 South College St., Mountain Home, AR 72653

**Public:** 2-year

**Enrollment:** 1,446

**Tuition:** \$3,240

**Admissions:** 870-508-6104, [adminforms@asumh.edu](mailto:adminforms@asumh.edu)

**Financial Aid:** 870-508-6195

## Arkansas State University at Newport

870-512-7800

[www.asun.edu](http://www.asun.edu)

7648 Victory Blvd., Newport, AR 72112

**Public:** 2-year

**Enrollment:** 2,039

**Tuition:** \$3,000

**Admissions:** 870-512-7800

**Financial Aid:** 870-512-7800

**Other Locations:** Jonesboro, Marked Tree

# Arkansas Colleges & Universities

## Arkansas Tech University

479-968-0389

[www.atu.edu](http://www.atu.edu)

1605 Coliseum Drive, Russellville, AR 72801

Public: 4-year

Enrollment: 11,369

Tuition: \$6,918

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

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

Housing: 479-968-0376, residence.life@atu.edu

Other Locations: Ozark

## Arkansas Tech University-Ozark

866-225-2884

[www.atu.edu/ozark](http://www.atu.edu/ozark)

1700 Helberg Lane, Ozark, AR 72949

Public: 2-year Technical

Tuition: \$3,750

Admissions: 866-225-2884

Financial Aid: 479-667-2117

## Black River Technical College

870-248-4000

[www.blackrivertech.edu](http://www.blackrivertech.edu)

Highway 304 East, Pocahontas, AR 72455

Public: 2-year

Enrollment: 2,261

Tuition: \$2,850

Admissions: 870-248-4000

Financial Aid: 870-248-4000

Other Locations: Paragould

## Central Baptist College

501-329-6872

[www.cbc.edu](http://www.cbc.edu)

1501 College Avenue, Conway, AR 72034

Private: 4-year

Enrollment: 827

Tuition: \$13,350

Admissions: 501-205-8839

Financial Aid: 501-205-8911

Housing: 501-205-8811

Other Locations: Camp Robinson

## College of the Ouachitas

800-337-0266

[www.coto.edu](http://www.coto.edu)

One College Circle, Malvern, AR 72104

Public: 2-year

Enrollment: 1,501

Tuition: \$3,182

Admissions: 800-337-0266

Financial Aid: 501-337-0266, financialaid@coto.edu

## Cossatot Community College of the University of Arkansas

800-844-4471

[www.cccua.edu](http://www.cccua.edu)

183 College Drive, De Queen, AR 71832

Public: 2-year

Enrollment: 1,556

Tuition: \$2,512

Admissions: 800-844-4471

Financial Aid: 870-584-4471 exts. 1148, 1128, 1127, and 1118

Other Locations: Ashdown, Dierks, Murfreesboro, Nashville

## Crowley's Ridge College

800-264-1096

[www.crc.edu](http://www.crc.edu)

100 College Drive, Paragould, AR 72450

Private: 4-year

Enrollment: 195

Tuition: \$10,800

Admissions: 870-236-6901

Financial Aid: 870-236-6901

Housing: 870-236-6901

## Crowley's Ridge Technical Institute

870-633-5411

[www.crti.tec.ar.us](http://www.crti.tec.ar.us)

1620 Newcastle Road, PO Box 925, Forrest City, AR 72335

Private: Technical

Tuition: Varies

Admissions: 870-633-5411

Financial Aid: 870-633-5411

## East Arkansas Community College

870-633-4480

[www.eacc.edu](http://www.eacc.edu)

1700 Newcastle Road, Forrest City, AR 72335

Public: 2-year

Enrollment: 1,387

Tuition: \$2,790

Admissions: 870-633-4480

Financial Aid: 870-633-4480

Other Locations: Wynne

## Harding University

501-279-4000

[www.harding.edu](http://www.harding.edu)

915 E. Market Ave., Searcy, AR 72149

Private: 4-year

Enrollment: 6,215

Tuition: \$12,247

Admissions: 501-279-4407, admissions@harding.edu

Financial Aid: 501-279-4257, finaids@harding.edu

Housing: 501-450-1416, housing@harding.edu

Other Locations: Bentonville, North Little Rock

## Henderson State University

870-230-5000

[www.hsu.edu](http://www.hsu.edu)

1100 Henderson Street, Arkadelphia, AR 71999

Public: 4-year

Enrollment: 3,582

Tuition: \$7,284

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

Financial Aid: 870-230-5148

Housing: 870-230-5083, reslife@hsu.edu

# Arkansas Colleges & Universities

## Hendrix College

800-277-9017

[www.hendrix.edu](http://www.hendrix.edu)

1600 Washington Ave, Conway, AR 72032

Private: 4-year

Enrollment: 1,430

Tuition: \$37,816

Admissions: 800-277-9017

Financial Aid: 501-450-1368, [student\\_aid@hendrix.edu](mailto:student_aid@hendrix.edu)

Housing: 501-450-1416, [housing@hendrix.edu](mailto:housing@hendrix.edu)

## ITT Technical Institute

800-359-4429, 501-565-5550

[www.itt-tech.edu](http://www.itt-tech.edu)

12200 Westhaven Drive, Little Rock, AR 72211

Private: 4-year

Tuition: Varies

## John Brown University

479-524-9500

[www.jbu.edu](http://www.jbu.edu)

2000 West University Street, Siloam Springs, AR 72761

Private: 4-year

Enrollment: 2,596

Tuition: \$23,588

Admissions: 877-528-4636, [jbuinfo@jbu.edu](mailto:jbuinfo@jbu.edu)

Financial Aid: 877-528-4636, [finaid@jbu.edu](mailto:finaid@jbu.edu)

Housing: 479-524-7229, 479-524-7252

Other Locations: Fort Smith, Harrison, Little Rock, Rogers

## Lyon College

870-307-7000

[www.lyon.edu](http://www.lyon.edu)

2300 Highland Road, Batesville, AR 72501

Private: 4-year

Enrollment: 591

Tuition: \$23,594

Admissions: 870-307-7250, 800-423-2542, [admissions@lyon.edu](mailto:admissions@lyon.edu)

Financial Aid: 870-307-7257

Housing: 870-307-7375

## Mid-South Community College

866-733-6722

[www.midsouthcc.edu](http://www.midsouthcc.edu)

2000 W. Broadway, West Memphis, AR 72301

Public: 2-year

Enrollment: 1,793

Tuition: \$3,670

Admissions: 870-733-6728, [admissions@midsouthcc.edu](mailto:admissions@midsouthcc.edu)

Financial Aid: 870-733-6729, [finAid@midsouthcc.edu](mailto:finAid@midsouthcc.edu)

## National Park Community College

501-760-4222

[www.npcc.edu](http://www.npcc.edu)

101 College Drive, Hot Springs National Park, AR 71913

Public: 2-year

Enrollment: 3,244

Tuition: \$3,320

Admissions: 501-760-4363, [admissions@npcc.edu](mailto:admissions@npcc.edu)

Financial Aid: 501-760-4237

## North Arkansas College

870-743-3000

[www.northark.edu](http://www.northark.edu)

1515 Pioneer Drive, Harrison, AR 72601

Public: 2-year

Enrollment: 2,157

Tuition: \$3,090

Admissions: 870-391-3505, [admissions@northark.edu](mailto:admissions@northark.edu)

Financial Aid: 870-391-3240, [financial-aid@northark.edu](mailto:financial-aid@northark.edu)

Other Locations: Berryville

## Northwest Arkansas Community College

479-636-9222, 800-955-6922

[www.nwacc.edu](http://www.nwacc.edu)

One College Drive, Bentonville, AR 72712

Public: 2-year

Enrollment: 8,020

Tuition: \$4,513

Admissions: 479-619-4167, [admissions@nwacc.edu](mailto:admissions@nwacc.edu)

Financial Aid: 479-619-4329, [finaid@nwacc.edu](mailto:finaid@nwacc.edu)

Other Locations: Farmington, Fayetteville, Springdale

## Northwest Technical Institute

479-751-8824

[www.nwti.edu](http://www.nwti.edu)

709 South Old Missouri Road, Springdale, AR 72765

Private: Technical

Tuition: Varies

Admissions: 479-751-8824, [info@nwti.edu](mailto:info@nwti.edu)

Financial Aid: 479-751-8824 ext. 240

## Ouachita Baptist University

800-342-5628

[www.obu.edu](http://www.obu.edu)

410 Ouachita St., Arkadelphia, AR 71998

Private: 4-year

Enrollment: 1,538

Tuition: \$23,320

Admission: 800-342-5628

Financial Aid: 870-245-5570, [obustudentfinancialservices@obu.edu](mailto:obustudentfinancialservices@obu.edu)

Housing: 870-245-5220

## Ozarka College

870-368-7371, 800-821-4335

[www.ozarka.edu](http://www.ozarka.edu)

218 College Drive, Melbourne, Ar 72556

Public: 2-year

Enrollment: 1,489

Tuition: \$3,005

Admissions: 870-368-2013, [admissions@ozarka.edu](mailto:admissions@ozarka.edu)

Financial Aid: 870-368-2009, [finaid@ozarka.edu](mailto:finaid@ozarka.edu)

Other Locations: Ash Flat, Mammoth Spring, Mountain View

## Philander Smith College

501-370-5221, 800-446-6772

[www.philander.edu](http://www.philander.edu)

900 Daisy Bates Drive, Little Rock, AR 72202

Private: 4-year

Enrollment: 556

Tuition: \$12,414

Admissions: 501-370-5221

Financial Aid: 501-370-5350, [financialaid@philander.edu](mailto:financialaid@philander.edu)

Housing: 501-975-6059

# Arkansas Colleges & Universities

**Phillips Community College of the University of Arkansas**  
870-338-6474  
[www.pccua.edu](http://www.pccua.edu)

1000 Campus Drive, Helena-West Helena, AR 72342  
**Public:** 2-year  
**Enrollment:** 2,013  
**Tuition:** \$2,855  
**Admissions:** 870-338-6474  
**Financial Aid:** 870-338-6474 ext. 1258  
**Other locations:** Dewitt, Stuttgart

**Pulaski Technical College**  
501-812-2200

[www.pulaskitech.edu](http://www.pulaskitech.edu)  
3000 West Scenic Drive, North Little Rock, AR 72118  
**Public:** 2-year  
**Enrollment:** 10,527  
**Tuition:** \$3,563  
**Admissions:** 501-812-2231  
**Financial Aid:** 501-812-2289, [FinAid@pulaskitech.edu](mailto:FinAid@pulaskitech.edu)  
**Other Locations:** Benton, Bauxite, Little Rock

**Remington College**  
800-560-6192

[www.remingtoncollege.edu](http://www.remingtoncollege.edu)  
19 Remington Drive, Little Rock, AR 72204  
**Private:** 2-year  
**Tuition:** Varies  
**Admissions:** 800-560-6192  
**Financial Aid:** 800-560-6192

**Rich Mountain Community College**  
479-394-7622

[www.rmcc.edu](http://www.rmcc.edu)  
1100 College Drive, Mena, AR 71953  
**Public:** 2-year  
**Enrollment:** 957  
**Tuition:** \$3,180  
**Admissions:** 479-394-7622 ext. 1440  
**Financial Aid:** 479-394-7622 ext. 1422  
**Other Locations:** Mount Ida, Oden, Waldron

**Shorter College**  
501-374-6305

[www.shortercollege.edu](http://www.shortercollege.edu)  
604 Locust Street, North Little Rock, AR 72114  
**Private:** 2-year  
**Enrollment:** 450  
**Tuition:** \$2,500  
**Admissions:** 501-374-6305  
**Financial Aid:** 501-374-6305

**South Arkansas Community College**  
800-955-2289  
[www.southark.edu](http://www.southark.edu)

300 South West Avenue, El Dorado, AR 71730  
**Public:** 2-year  
**Enrollment:** 1,632  
**Tuition:** \$3,140  
**Admissions:** 870-864-7195  
**Financial Aid:** 870-864-7133

**Southeast Arkansas College**  
870-543-5900, 888-732-7582  
[www.seark.edu](http://www.seark.edu)

1900 Hazel Street, Pine Bluff, AR 71603  
**Public:** 2-year  
**Enrollment:** 1,591  
**Tuition:** \$3,010  
**Admissions:** 870-850-8605  
**Financial Aid:** 870-543-5909, [FinAid@seark.edu](mailto:FinAid@seark.edu)

**Southern Arkansas University**  
870-235-4000

[web.saumag.edu](http://web.saumag.edu)  
100 E. University, Magnolia, AR 71753  
**Public:** 4-year  
**Enrollment:** 3,404  
**Tuition:** \$7,386  
**Admissions:** 870-235-4040, 800-332-7286, [muleriders@saumag.edu](mailto:muleriders@saumag.edu)  
**Financial Aid:** 870-235-4023  
**Housing:** 870-235-4047, [housing@saumag.edu](mailto:housing@saumag.edu)

**Southern Arkansas University-Tech**  
870-574-4500

[www.sautech.edu](http://www.sautech.edu)  
6415 Spellman Rd., Camden, AR 71701  
**Public:** 2-year  
**Enrollment:** 1,730  
**Tuition:** \$4,050  
**Admissions:** 870-574-4500  
**Financial Aid:** 870-574-4511  
**Housing:** 870-574-4519  
**Other Locations:** Fordyce, Magnolia, Texarkana

**University of Arkansas at Fayetteville**  
479-575-2000

[www.uark.edu](http://www.uark.edu)  
1 University of Arkansas, Fayetteville, AR 72701  
**Public:** 4-year  
**Enrollment:** 25,341  
**Tuition:** \$7,818  
**Admissions:** 479-575-5346, 800-377-8632, [uofa@uark.edu](mailto:uofa@uark.edu)  
**Financial Aid:** 479-575-3806  
**Housing:** 479-575-3951, [housing@uark.edu](mailto:housing@uark.edu)

**University of Arkansas at Fort Smith**  
479-788-7000

[www.uaafs.edu](http://www.uaafs.edu)  
5210 Grand Avenue, Fort Smith, AR 72913  
**Public:** 4-year  
**Enrollment:** 7,154  
**Tuition:** \$5,625  
**Admissions:** 479-788-7120  
**Financial Aid:** 479-788-7090, [finaid@uaafs.edu](mailto:finaid@uaafs.edu)  
**Housing:** 479-788-7340, [housing@uaafs.edu](mailto:housing@uaafs.edu)

# Arkansas Colleges & Universities

## University of Arkansas at Little Rock

501-683-7397, 800-482-8892

[www.ualr.edu](http://www.ualr.edu)

2800 S. University Ave., Little Rock, AR 72204

Public: 4-year

Enrollment: 12,377

Tuition: \$7,601

Admissions: 501-569-8956, [admissions@ualr.edu](mailto:admissions@ualr.edu)

Financial Aid: 501-569-3035, [financialaid@ualr.edu](mailto:financialaid@ualr.edu)

Housing: 501-661-1743, [housing@ualr.edu](mailto:housing@ualr.edu)

Other Locations: Benton

## University of Arkansas at Monticello

800-844-1826

[www.uamont.edu](http://www.uamont.edu)

346 University Drive, Monticello, AR 71656

Public: 4-year

Enrollment: 3,893

Tuition: \$5,793

Admissions: 870-460-1026

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

Housing: 870-460-1045

Other Locations: Crossett, McGehee

## University of Arkansas at Monticello College of Technology Crossett

800-323-3384

[www.uamont.edu/uamctc](http://www.uamont.edu/uamctc)

1326 Highway 52 W, Crossett, AR 71635

Public: 2-year

Tuition: \$2,510

Admissions: 870-460-1026

Financial Aid: 870-460-1050

## University of Arkansas at Monticello College of Technology McGehee

870-222-5360

[www.uamont.edu/mcgehee](http://www.uamont.edu/mcgehee)

P.O. Box 747, McGehee, AR 71654

Public: 2-year

Tuition: \$2,510

Admissions: 870-222-5360

Financial Aid: 870-222-5360

## University of Arkansas at Pine Bluff

870-575-8000

[www.uapb.edu](http://www.uapb.edu)

1200 North University Drive, Pine Bluff, AR 71601

Public: 4-year

Enrollment: 2,615

Tuition: \$5,754

Admissions: 870-575-8492

Financial Aid: 870-575-8283, [finaid@uapb.edu](mailto:finaid@uapb.edu)

Housing: 870-575-7256

Other Locations: Gould, Marianna, North Little Rock

## University of Arkansas Community College at Batesville

800-508-7878

[www.uaccb.edu](http://www.uaccb.edu)

PO Box 3350, Batesville, AR 72503

Public: 2-year

Enrollment: 1,353

Tuition: \$3,060

Admissions: 870-612-2139

Financial Aid: 870-612-2036

## University of Arkansas Community College at Hope

870-777-5722

[www.uacch.edu](http://www.uacch.edu)

2500 South Main, Hope, AR 71802

Public: 2-year

Enrollment: 1,460

Tuition: \$2,421

Admissions: 870-722-8221

Financial Aid: 870-722-8265

## University of Arkansas Community College at Morrilton

800-264-1094

[www.uaccm.edu](http://www.uaccm.edu)

1537 University Blvd., Morrilton, AR 72110

Public: 2-year

Enrollment: 2,149

Tuition: \$3,500

Admission: 501-977-2053, [adm@uaccm.edu](mailto:adm@uaccm.edu)

Financial Aid: 501-977-2055

## University of Arkansas for Medical Sciences

501-686-7000

[www.uams.edu](http://www.uams.edu)

4301 West Markham, Little Rock, AR 72205

Public: 4-year

Enrollment: 2,867

Tuition: Varies

Admissions: 501-686-7000

Financial Aid: 501-686-5451

Housing: 501-686-5850

Teaching Centers across the state

## University of Central Arkansas

501-450-5000

[www.uca.edu](http://www.uca.edu)

201 Donaghey Ave., Conway, AR 72035

Public: 4-year

Enrollment: 11,534

Tuition: \$7,595

Admissions: 800-243-8245

Financial Aid: 501-450-3140

Housing: 501-450-3132, [housing@uca.edu](mailto:housing@uca.edu)

## University of the Ozarks

800-264-8636

[www.ozarks.edu](http://www.ozarks.edu)

415 N. College Avenue, Clarksville, AR 72830

Private: 4-year

Enrollment: 585

Tuition: \$24,350

Admissions: 800-264-8636, [admiss@ozarks.edu](mailto:admiss@ozarks.edu)

Financial Aid: 800-264-8636

Housing: 479-979-1322

## Williams Baptist College

870-886-6741

[www.wbcoll.edu](http://www.wbcoll.edu)

60 W Fulbright Avenue, Walnut Ridge, AR 72476

Private: 4-year

Enrollment: 569

Tuition: \$13,850

Admissions: 800-722-4434, [admissions@wbcoll.edu](mailto:admissions@wbcoll.edu)

Financial Aid: 870-759-4112, [financialaid@wbcoll.edu](mailto:financialaid@wbcoll.edu)

Housing: 870-759-4120

# 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 900 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](http://www.discover.arkansas.gov) and click on the "Occupations" link.

## 2014-2015 Occupations and Careers

### Occupations

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 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*

The Arkansas Labor Market Information Section bases both the growth rate and annual openings data on occupational projections.

### 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+ - 5 years or more work experience*

*-5 - Less than 5 years work experience*

*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.

### Earnings

This column shows an estimated mean hourly wage and annual salary in Arkansas for the occupation. This data is based on a 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*

Occupations	Job Outlook	Education	Earnings
<b>Accountants and Auditors 13-2011</b> Examine, analyze, and interpret accounting records to prepare financial statements, give advice, or audit and evaluate statements prepared by others.	8,000 376 A	B None None	\$30.08 \$62,560
<b>Administrative Law Judges, Adjudicators, and Hearing Officers 23-1021</b> Conduct hearings to recommend or make decisions on claims concerning government programs or other government-related matters.	520 12 BA	D -5 SOJT	\$29.27 \$60,880
<b>Advertising and Promotions Managers 11-2011</b> 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.	247 11 A	B -5 None	\$43.31 \$90,080
<b>Aerospace Engineering and Operations Technicians 17-3021</b> Operate, install, calibrate, and maintain integrated computer/communications systems, consoles, simulators, and other data acquisition, test, and measurement instruments and equipment, which are used to launch, track, position, and evaluate air and space vehicles.	37 0 D	A None None	\$25.83 \$53,730
<b>Aircraft Mechanics and Service Technicians 49-3011</b> Diagnose, adjust, repair, or overhaul aircraft engines and assemblies, such as hydraulic and pneumatic systems. Includes helicopter and aircraft engine specialists.	917 63 AA	PS None None	\$21.65 \$45,030
<b>Anesthesiologists 29-1061</b> Physicians who administer anesthetics prior to, during, or after surgery, or other medical procedures.	66 3 A	D None I/R	\$112.46 \$233,920
<b>Anthropologists and Archeologists 19-3091</b> 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.	76 1 BA	M None None	\$34.04 \$70,790
<b>Architects, Except Landscape and Naval 17-1011</b> Plan and design structures, such as private residences, office buildings, theaters, factories, and other structural property.	687 16 D	B None I/R	\$32.74 \$68,100
<b>Audiologists 29-1181</b> Assess and treat persons with hearing and related disorders. May fit hearing aids and provide auditory training.	55 3 AA	D None None	\$35.57 \$73,990
<b>Automotive Glass Installers and Repairers 49-3022</b> Replace or repair broken windshields and window glass in motor vehicles.	386 10 D	HS None MOJT	\$13.11 \$27,280
<b>Automotive Service Technicians and Mechanics 49-3023</b> Diagnose, adjust, repair, or overhaul automotive vehicles.	5,332 162 BA	HS None LOJT	\$16.54 \$34,400
<b>Avionics Technicians 49-2091</b> Install, inspect, test, adjust, or repair avionics equipment, such as radar, radio, navigation, and missile control systems in aircraft or space vehicles.	117 2 BA	A None None	\$23.86 \$49,620
<b>Bakers 51-3011</b> Mix and bake ingredients to produce breads, rolls, cookies, cakes, pies, pastries, or other baked goods.	1,119 45 A	LHS None LOJT	\$10.21 \$21,240
<b>Bill and Account Collectors 43-3011</b> Locate and notify customers of delinquent accounts by mail, telephone, or personal visit to solicit payment.	2,341 111 A	HS None MOJT	\$14.89 \$30,980
<b>Biological Technicians 19-4021</b> 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.	234 7 D	B None None	\$18.98 \$39,480
<b>Biomedical Engineers 17-2031</b> 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.	32 0 D	B None None	\$33.02 \$68,690

Occupations	Job Outlook	Education	Earnings
<b>Bookkeeping, Accounting, and Auditing Clerks 43-3031</b> Compute, classify, and record numerical data to keep financial records complete.	12,685 256 A	HS None MOJT	\$15.63 \$32,500
<b>Brickmasons and Blockmasons 47-2021</b> 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.	570 24 AA	HS None App	\$17.05 \$35,470
<b>Budget Analysts 13-2031</b> Examine budget estimates for completeness, accuracy, and conformance with procedures and regulations.	571 29 A	B None None	\$24.59 \$51,150
<b>Butchers and Meat Cutters 51-3021</b> Cut, trim, or prepare consumer-sized portions of meat for use or sale in retail establishments.	916 24 BA	LHS None LOJT	\$11.91 \$24,780
<b>Buyers and Purchasing Agents, Farm Products 13-1021</b> Purchase farm products either for further processing or resale.	364 8 BA	HS None LOJT	\$36.32 \$75,550
<b>Cardiovascular Technologists and Technicians 29-2031</b> Conduct tests on pulmonary or cardiovascular systems of patients for diagnostic purposes.	315 11 A	A None None	\$24.55 \$51,060
<b>Career/Technical Education Teachers, Middle School 25-2023</b> Teach occupational, career and technical, or vocational 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.	286 6 D	B -5 I/R	N/A \$50,210
<b>Career/Technical Education Teachers, Secondary School 25-2032</b> Teach occupational, career and technical, or vocational subjects at the secondary school level in public or private schools.	1,304 36 D	B -5 I/R	N/A \$50,570
<b>Cashiers 41-2011</b> Receive and disburse money in establishments other than financial institutions. May use electronic scanners, cash registers, or related equipment.	28,885 1,692 BA	LHS None SOJT	\$8.73 \$18,160
<b>Cement Masons and Concrete Finishers 47-2051</b> Smooth and finish surfaces of poured concrete, such as floors, walks, sidewalks, roads, or curbs using a variety of hand and power tools.	972 18 BA	LHS None MOJT	\$15.09 \$31,390
<b>Chefs and Head Cooks 35-1011</b> Direct and may participate in the preparation, seasoning, and cooking of salads, soups, fish, meats, vegetables, desserts, or other foods.	494 10 BA	HS 5+ None	\$16.54 \$34,390
<b>Chemical Engineers 17-2041</b> 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.	158 4 BA	B None None	\$38.80 \$80,700
<b>Chemical Equipment Operators and Tenders 51-9011</b> Operate or tend equipment to control chemical changes or reactions in the processing of industrial or consumer products.	569 70 AA	HS None MOJT	\$21.33 \$44,370
<b>Chemists 19-2031</b> Conduct qualitative and quantitative chemical analyses or experiments in laboratories for quality or process control or to develop new products or knowledge.	396 12 BA	B None None	\$34.61 \$71,990
<b>Child, Family, and School Social Workers 21-1021</b> 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.	1,390 40 BA	B None None	\$17.21 \$35,800
<b>Chiropractors 29-1011</b> Assess, treat, and care for patients by manipulation of spine and musculoskeletal system.	368 11 BA	D None None	\$45.54 \$94,720

Occupations	Job Outlook	Education	Earnings
<b>Civil Engineers 17-2051</b> 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.	1,588 40 BA	B None None	\$34.98 \$72,760
<b>Claims Adjusters, Examiners, and Investigators 13-1031</b> Review settled claims to determine that payments and settlements are made in accordance with company practices and procedures.	1,820 48 BA	HS None LOJT	\$29.21 \$60,760
<b>Clergy 21-2011</b> Conduct religious worship and perform other spiritual functions associated with beliefs and practices of religious faith or denomination.	7,519 243 A	B None MOJT	\$19.70 \$40,970
<b>Clinical, Counseling, and School Psychologists 19-3031</b> Diagnose and treat mental disorders; learning disabilities; and cognitive, behavioral, and emotional problems, using individual, child, family, and group therapies.	687 24 BA	D None I/R	\$30.05 \$62,500
<b>Community Health Workers 21-1094</b> Assist individuals and communities to adopt healthy behaviors. Conduct outreach for medical personnel or health organizations to implement programs in the community that promote, maintain, and improve individual and community health.	325 14 A	HS None SOJT	\$16.59 \$34,510
<b>Computer Hardware Engineers 17-2061</b> Research, design, develop, or test computer or computer-related equipment for commercial, industrial, military, or scientific use.	104 3 BA	B None None	\$35.25 \$73,330
<b>Computer Network Support Specialists 15-1152</b> Analyze, test, troubleshoot, and evaluate existing network systems, such as local area network (LAN), wide area network (WAN), and Internet systems or a segment of a network system.	963 18 BA	A None None	\$23.93 \$49,760
<b>Computer Programmers 15-1131</b> 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.	3,614 128 BA	B None None	\$32.86 \$68,350
<b>Computer Systems Analysts 15-1121</b> Analyze science, engineering, business, and other data processing problems to implement and improve computer systems.	1,659 67 AA	B None None	\$33.27 \$69,200
<b>Computer User Support Specialists 15-1151</b> Provide technical assistance to computer users. Answer questions or resolve computer problems for clients in person, or via telephone or electronically.	2,875 85 A	SC None MOJT	\$19.41 \$40,380
<b>Construction and Building Inspectors 47-4011</b> Inspect structures using engineering skills to determine structural soundness and compliance with specifications, building codes, and other regulations.	739 15 BA	HS 5+ MOJT	\$21.82 \$45,390
<b>Construction Laborers 47-2061</b> 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.	10,201 250 BA	LHS None SOJT	\$12.26 \$25,490
<b>Construction Managers 11-9021</b> Plan, direct, or coordinate, usually through subordinate supervisory personnel, activities concerned with the construction and maintenance of structures, facilities, and systems.	4,333 63 BA	B None MOJT	\$33.88 \$70,470
<b>Conveyor Operators and Tenders 53-7011</b> Control or tend conveyors or conveyor systems that move materials or products to and from stockpiles, processing stations, departments, or vehicles.	511 17 BA	LHS None SOJT	\$14.99 \$31,170
<b>Cooks, Restaurant 35-2014</b> Prepare, season, and cook dishes such as soups, meats, vegetables, or desserts in restaurants.	8,156 293 A	LHS -5 MOJT	\$9.33 \$19,400
<b>Couriers and Messengers 43-5021</b> 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.	708 14 BA	HS None SOJT	\$11.68 \$24,290

Occupations	Job Outlook	Education	Earnings
<b>Court Reporters 23-2091</b> Use verbatim methods and equipment to capture, store, retrieve, and transcribe pretrial and trial proceedings or other information.	196 4 BA	PS None SOJT	\$23.29 \$48,450
<b>Court, Municipal, and License Clerks 43-4031</b> Perform clerical duties for courts of law, municipalities, or governmental licensing agencies and bureaus.	1,206 34 A	HS None MOJT	\$13.62 \$28,320
<b>Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders 51-9021</b> Set up, operate, or tend machines to crush, grind, or polish materials, such as coal, glass, grain, stone, food, or rubber.	476 14 D	HS None MOJT	\$12.03 \$25,020
<b>Curators 25-4012</b> Administer collections, such as artwork, collectibles, historic items, or scientific specimens of museums or other institutions.	66 3 AA	M None None	\$19.86 \$41,310
<b>Customer Service Representatives 43-4051</b> Interact with customers to provide information in response to inquiries about products and services and to handle and resolve complaints.	18,200 760 A	HS None SOJT	\$13.93 \$28,980
<b>Cutting and Slicing Machine Setters, Operators, and Tenders 51-9032</b> Set up, operate, or tend machines that cut or slice materials, such as glass, stone, cork, rubber, tobacco, food, paper, or insulating material.	1,649 62 A	HS None SOJT	\$16.68 \$34,690
<b>Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic 51-4031</b> Set up, operate, or tend machines to saw, cut, shear, slit, punch, crimp, notch, bend, or straighten metal or plastic material.	2,141 20 D	HS None MOJT	\$14.42 \$29,990
<b>Dental Assistants 31-9091</b> Assist dentist, set up equipment, prepare patient for treatment, and keep records.	2,480 108 A	PS None None	\$14.66 \$30,500
<b>Dental Hygienists 29-2021</b> Clean teeth and examine oral areas, head, and neck for signs of oral disease.	1,308 70 AA	A None None	\$29.34 \$61,030
<b>Dental Laboratory Technicians 51-9081</b> Construct and repair full or partial dentures or dental appliances.	365 12 BA	HS None MOJT	\$17.92 \$37,270
<b>Dentists, General 29-1021</b> Examine, diagnose, and treat diseases, injuries, and malformations of teeth and gums.	1,141 50 A	D None None	\$73.18 \$152,200
<b>Derrick Operators, Oil and Gas 47-5011</b> Rig derrick equipment and operate pumps to circulate mud through drill hole.	374 14 D	LHS None SOJT	\$27.63 \$57,460
<b>Detectives and Criminal Investigators 33-3021</b> Conduct investigations related to suspected violations of Federal, State, or local laws to prevent or solve crimes.	595 15 BA	HS -5 MOJT	\$25.25 \$52,520
<b>Diagnostic Medical Sonographers 29-2032</b> Produce ultrasonic recordings of internal organs for use by physicians.	383 17 AA	A None None	\$27.11 \$56,390
<b>Dietetic Technicians 29-2051</b> Assist in the provision of food service and nutritional programs, under the supervision of a dietitian.	212 4 BA	A None None	\$10.87 \$22,610
<b>Dietitians and Nutritionists 29-1031</b> Plan and conduct food service or nutritional programs to assist in the promotion of health and control of disease.	522 8 BA	B None I/R	\$23.54 \$48,970
<b>Directors, Religious Activities and Education 21-2021</b> Plan, direct, or coordinate programs designed to promote the religious education or activities of a denominational group.	393 17 A	B -5 None	\$26.32 \$54,750

Occupations	Job Outlook	Education	Earnings
<b>Dispatchers, Except Police, Fire, and Ambulance 43-5032</b> 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.	1,602 62 A	HS None MOJT	\$17.26 \$35,900
<b>Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic 51-4032</b> Set up, operate, or tend drilling machines to drill, bore, ream, mill, or countersink metal or plastic work pieces.	69 2 D	HS None MOJT	\$15.29 \$31,800
<b>Economists 19-3011</b> 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.	73 2 BA	M None None	\$32.61 \$67,830
<b>Editors 27-3041</b> Plan, coordinate, or edit content of material for publication. May review proposals and drafts for possible publication.	498 12 D	B -5 None	\$20.78 \$43,220
<b>Educational, Guidance, School, and Vocational Counselors 21-1012</b> Counsel individuals and provide group educational and vocational guidance services.	2,209 58 BA	M None None	\$24.99 \$51,970
<b>Electric Motor, Power Tool, and Related Repairers 49-2092</b> Repair, maintain, or install electric motors, wiring, or switches.	222 4 D	PS None LOJT	\$20.71 \$43,080
<b>Electrical and Electronic Equipment Assemblers 51-2022</b> Assemble or modify electrical or electronic equipment, such as computers, test equipment telemetering systems, electric motors, and batteries.	594 8 D	HS None SOJT	\$13.06 \$27,170
<b>Electrical and Electronics Engineering Technicians 17-3023</b> 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.	697 14 D	A None None	\$23.88 \$49,660
<b>Electrical and Electronics Repairers, Commercial and Industrial Equipment 49-2094</b> Repair, test, adjust, or install electronic equipment, such as industrial controls, transmitters, and antennas.	536 22 A	PS None LOJT	\$22.97 \$47,770
<b>Electrical Engineers 17-2071</b> Research, design, develop, test, or supervise the manufacturing and installation of electrical equipment, components, or systems for commercial, industrial, military, or scientific use.	617 13 D	B None None	\$35.97 \$74,820
<b>Electrical Power-Line Installers and Repairers 49-9051</b> Install or repair cables or wires used in electrical power or distribution systems.	1,549 60 BA	HS None LOJT	\$27.28 \$56,740
<b>Electricians 47-2111</b> Install, maintain, and repair electrical wiring, equipment, and fixtures. Ensure that work is in accordance with relevant codes.	5,004 116 BA	HS None App	\$20.42 \$42,470
<b>Electro-Mechanical Technicians 17-3024</b> Operate, test, maintain, or calibrate unmanned, automated, servo-mechanical, or electromechanical equipment.	25 0 BA	A None None	N/A
<b>Electronics Engineers, Except Computer 17-2072</b> Research, design, develop, or test electronic components and systems for commercial, industrial, military, or scientific use employing knowledge of electronic theory and materials properties.	350 10 BA	B None None	\$35.27 \$73,360
<b>Elementary School Teachers, Except Special Education 25-2021</b> Teach students basic academic, social, and other formative skills in public or private schools at the elementary level.	12,140 318 BA	B None I/R	N/A \$44,490
<b>Emergency Management Directors 11-9161</b> 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.	167 4 BA	B 5+ None	\$19.60 \$40,780

Occupations	Job Outlook	Education	Earnings
<b>Emergency Medical Technicians and Paramedics 29-2041</b> Assess injuries, administer emergency medical care, and extricate trapped individuals. Transport injured or sick persons to medical facilities.	2,157 81 A	PS None None	\$14.45 \$30,060
<b>Environmental Engineering Technicians 17-3025</b> 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.	328 6 D	A None None	\$17.80 \$37,020
<b>Environmental Engineers 17-2081</b> Research, design, plan, or perform engineering duties in the prevention, control, and remediation of environmental hazards using various engineering disciplines.	217 5 D	B None None	\$38.62 \$80,330
<b>Environmental Science and Protection Technicians, Including Health 19-4091</b> 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.	183 14 AA	A None None	\$19.56 \$40,680
<b>Environmental Scientists and Specialists, Including Health 19-2041</b> 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.	368 15 A	B None None	\$29.43 \$61,210
<b>Epidemiologists 19-1041</b> Investigate and describe the determinants and distribution of disease, disability, or health outcomes.	43 1 BA	M None None	\$29.13 \$60,600
<b>Executive Secretaries and Executive Administrative Assistants 43-6011</b> 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.	5,292 63 D	HS -5 None	\$20.25 \$42,110
<b>Exercise Physiologists 29-1128</b> Assess, plan, or implement fitness programs that include exercise or physical activities such as those designed to improve cardiorespiratory function, body composition, muscular strength, muscular endurance, or flexibility.	48 0 BA	B None None	\$24.69 \$51,350
<b>Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic 51-4021</b> Set up, operate, or tend machines to extrude or draw thermoplastic or metal materials into tubes, rods, hoses, wire, bars, or structural shapes.	1,280 24 D	HS None MOJT	\$14.96 \$31,110
<b>Family and General Practitioners 29-1062</b> Physicians who diagnose, treat, and help prevent diseases and injuries that commonly occur in the general population.	1,504 51 BA	D None I/R	\$101.25 \$210,600
<b>Farmworkers and Laborers, Crop, Nursery, and Greenhouse 45-2092</b> Manually plant, cultivate, and harvest vegetables, fruits, nuts, horticultural specialties, and field crops.	4,273 142 BA	LHS None SOJT	\$11.14 \$23,180
<b>Farmworkers, Farm, Ranch, and Aquacultural Animals 45-2093</b> Attend to live farm, ranch, or aquacultural animals that may include cattle, sheep, swine, goats, horses and other equines, poultry, finfish, shellfish, and bees.	596 22 BA	LOJT None SOJT	\$10.94 \$22,760
<b>Financial Analysts 13-2051</b> Conduct quantitative analyses of information affecting investment programs of public or private institutions.	855 40 A	B None None	\$35.78 \$74,420
<b>Fire Inspectors and Investigators 33-2021</b> 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.	24 0 BA	HS 5+ MOJT	\$22.28 \$46,330
<b>Firefighters 33-2011</b> 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.	2,612 96 A	PS None LOJT	\$16.64 \$34,600
<b>First-Line Supervisors of Construction Trades and Extraction Workers 47-1011</b> Directly supervise and coordinate activities of construction or extraction workers.	5,711 88 BA	HS 5+ None	\$24.04 \$50,010

Occupations	Job Outlook	Education	Earnings
<b>First-Line Supervisors of Food Preparation and Serving Workers 35-1012</b> Directly supervise and coordinate activities of workers engaged in preparing and serving food.	8,542 364 A	HS -5 None	\$12.74 \$26,500
<b>First-Line Supervisors of Housekeeping and Janitorial Workers 37-1011</b> Directly supervise and coordinate work activities of cleaning personnel in hotels, hospitals, offices, and other establishments.	2,075 73 A	HS -5 None	\$14.62 \$30,410
<b>First-Line Supervisors of Retail Sales Workers 41-1011</b> Directly supervise and coordinate activities of retail sales workers in an establishment or department.	16,857 485 BA	HS -5 None	\$15.93 \$33,130
<b>First-Line Supervisors of Transportation and Material-Moving Machine and Vehicle Operators 53-1031</b> Directly supervise and coordinate activities of transportation and material-moving machine and vehicle operators and helpers.	1,986 64 BA	HS -5 None	\$23.13 \$48,120
<b>Fish and Game Wardens 33-3031</b> Patrol assigned area to prevent fish and game law violations. Investigate reports of damage to crops or property by wildlife. Compile biological data.	189 5 BA	HS None SOJT	\$22.28 \$46,340
<b>Fitness Trainers and Aerobics Instructors 39-9031</b> 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.	1,101 28 A	HS None SOJT	\$10.73 \$22,320
<b>Floor Sanders and Finishers 47-2043</b> Scrape and sand wooden floors to smooth surfaces using floor scraper and floor sanding machine, and apply coats of finish.	92 2 D	HS None MOJT	\$12.77 \$26,570
<b>Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders 51-3091</b> Operate or tend food or tobacco roasting, baking, or drying equipment, including hearth ovens, kiln driers, roasters, char kilns, and vacuum drying equipment.	257 10 A	LHS None MOJT	\$11.44 \$23,790
<b>Food Cooking Machine Operators and Tenders 51-3093</b> Operate or tend cooking equipment, such as steam cooking vats, deep fry cookers, pressure cookers, kettles, and boilers, to prepare food products.	472 12 D	HS None MOJT	\$12.86 \$26,760
<b>Food Preparation Workers 35-2021</b> Perform a variety of food preparation duties other than cooking, such as preparing cold foods and shellfish, slicing meat, and brewing coffee or tea.	6,067 216 BA	LHS None SOJT	\$8.65 \$17,990
<b>Food Scientists and Technologists 19-1012</b> Use chemistry, microbiology, engineering, and other sciences to study the principles underlying the processing and deterioration of foods.	348 27 AA	B None None	\$32.84 \$68,310
<b>Forest and Conservation Workers 45-4011</b> Under supervision, perform manual labor necessary to develop, maintain, or protect areas such as forests, forested areas, woodlands, wetlands, and rangelands through such activities as raising and transporting seedlings; combating insects, pests, and diseases harmful to plant life; and building structures to control water, erosion, and leaching of soil.	127 2 BA	HS None MOJT	\$11.88 \$24,710
<b>Forging Machine Setters, Operators, and Tenders, Metal and Plastic 51-4022</b> Set up, operate, or tend forging machines to taper, shape, or form metal or plastic parts.	250 5 D	HS None MOJT	\$16.28 \$33,860
<b>Funeral Service Managers 11-9061</b> Plan, direct, or coordinate the services or resources of funeral homes. Includes activities such as determining prices for services or merchandise and managing the facilities of funeral homes.	142 4 BA	A -5 None	\$28.74 \$59,770
<b>Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders 51-9051</b> Operate or tend heating equipment other than basic metal, plastic, or food processing equipment.	549 23 A	HS None MOJT	\$16.10 \$33,490
<b>Gas Compressor and Gas Pumping Station Operators 53-7071</b> Operate steam, gas, electric motor, or internal combustion engine driven compressors. Transmit, compress, or recover gases, such as butane, nitrogen, hydrogen, and natural gas.	43 1 BA	LHS None MOJT	\$28.75 \$59,810
<b>Gas Plant Operators 51-8092</b> Distribute or process gas for utility companies and others by controlling compressors to maintain specified pressures on main pipelines.	76 2 BA	HS None LOJT	\$25.95 \$53,970

Occupations	Job Outlook	Education	Earnings
<b>General and Operations Managers 11-1021</b> Plan, direct, or coordinate the operations of public or private sector organizations.	16,500 420 BA	B -5 None	\$42.21 \$87,800
<b>Geoscientists, Except Hydrologists and Geographers 19-2042</b> Study the composition, structure, and other physical aspects of the Earth.	158 8 A	B None None	\$31.84 \$66,230
<b>Graduate Teaching Assistants 25-1191</b> Assist faculty or other instructional staff in postsecondary institutions by performing teaching or teaching-related duties, such as teaching lower level courses, developing teaching materials, preparing and giving examinations, and grading examinations or papers.	852 28 A	B None None	N/A \$22,890
<b>Graphic Designers 27-1024</b> 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.	1,369 44 BA	B None None	\$18.55 \$38,590
<b>Health and Safety Engineers, Except Mining Safety Engineers and Inspectors 17-2111</b> Promote worksite or product safety by applying knowledge of industrial processes, mechanics, chemistry, psychology, and industrial health and safety laws.	95 2 D	B None None	\$28.65 \$59,580
<b>Healthcare Social Workers 21-1022</b> Provide individuals, families, and groups with the psychosocial support needed to cope with chronic, acute, or terminal illnesses.	1,236 40 A	M None None	\$22.63 \$47,070
<b>Heating, Air Conditioning, and Refrigeration Mechanics and Installers 49-9021</b> Install or repair heating, central air conditioning, or refrigeration systems, including oil burners, hot-air furnaces, and heating stoves.	2,339 76 BA	PS None LOJT	\$17.28 \$35,950
<b>Heavy and Tractor-Trailer Truck Drivers 53-3032</b> 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.	35,176 918 A	PS None SOJT	\$17.60 \$36,600
<b>Highway Maintenance Workers 47-4051</b> Maintain highways, municipal and rural roads, airport runways, and rights-of-way.	1,711 36 BA	HS None MOJT	\$13.57 \$28,220
<b>Home Health Aides 31-1011</b> 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.	8,666 328 A	LHS None SOJT	\$8.84 \$18,390
<b>Hotel, Motel, and Resort Desk Clerks 43-4081</b> 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.	2,394 146 A	HS None SOJT	\$8.62 \$17,940
<b>Human Resources Managers 11-3121</b> Plan, direct, or coordinate human resources activities and staff of an organization.	638 25 A	B 5+ None	\$44.47 \$92,500
<b>Human Resources Specialists 13-1071</b> Perform activities in the human resource area. Includes employment specialists who screen, recruit, interview, and place workers.	2,453 76 A	B None None	\$23.37 \$48,600
<b>Industrial Engineering Technicians 17-3026</b> Apply engineering theory and principles to problems of industrial layout or manufacturing production, usually under the direction of engineering staff.	399 8 D	A None None	\$22.34 \$46,460
<b>Industrial Engineers 17-2112</b> 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.	1,452 44 BA	B None None	\$34.87 \$72,530
<b>Industrial Machinery Mechanics 49-9041</b> Repair, install, adjust, or maintain industrial production and processing machinery or refinery and pipeline distribution systems.	4,755 226 A	HS None LOJT	\$21.56 \$44,840

Occupations	Job Outlook	Education	Earnings
<b>Industrial Truck and Tractor Operators 53-7051</b> Operate industrial trucks or tractors equipped to move materials around a warehouse, storage yard, factory, construction site, or similar location.	7,736 172 D	LHS None SOJT	\$13.57 \$28,220
<b>Information Security Analysts 15-1122</b> Plan, implement, upgrade, or monitor security measures for the protection of computer networks and information.	860 43 AA	B -5 None	\$27.73 \$57,670
<b>Insurance Appraisers, Auto Damage 13-1032</b> Appraise automobile or other vehicle damage to determine repair costs for insurance claim settlement.	111 2 D	PS None MOJT	\$23.59 \$49,060
<b>Insurance Sales Agents 41-3021</b> Sell life, property, casualty, health, automotive, or other types of insurance.	5,179 137 BA	HS None MOJT	\$24.69 \$51,350
<b>Interior Designers 27-1025</b> Plan, design, and furnish interiors of residential, commercial, or industrial buildings.	207 6 D	B None None	\$20.14 \$41,900
<b>Internists, General 29-1063</b> Physicians who diagnose and provide non-surgical treatment of diseases and injuries of internal organ systems.	281 8 BA	D None I/R	\$104.13 \$216,580
<b>Interpreters and Translators 27-3091</b> Interpret oral or sign language, or translate written text from one language into another.	109 3 A	B None SOJT	\$15.25 \$31,720
<b>Janitors and Cleaners, Except Maids and Housekeeping Cleaners 37-2011</b> Keep buildings in clean and orderly condition. Perform heavy cleaning duties, such as cleaning floors, shampooing rugs, washing walls and glass, and removing rubbish.	21,230 734 A	LHS None SOJT	\$10.03 \$20,860
<b>Kindergarten Teachers, Except Special Education 25-2012</b> 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.	2,222 71 BA	B None I/R	N/A \$44,520
<b>Laborers and Freight, Stock, and Material Movers, Hand 53-7062</b> Manually move freight, stock, or other materials or perform other general labor. Includes all manual laborers not elsewhere classified.	22,607 998 A	LHS None SOJT	\$11.19 \$23,270
<b>Landscape Architects 17-1012</b> 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.	40 1 BA	B None I/R	\$23.73 \$49,360
<b>Lawyers 23-1011</b> Represent clients in criminal and civil litigation and other legal proceedings, draw up legal documents, or manage or advise clients on legal transactions.	4,431 109 BA	D None None	\$48.72 \$101,340
<b>Librarians 25-4021</b> 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.	1,553 43 BA	M None None	\$24.73 \$51,440
<b>Licensed Practical and Licensed Vocational Nurses 29-2061</b> Care for ill, injured, or convalescing patients or persons with disabilities in hospitals, nursing homes, clinics, private homes, group homes, and similar institutions. Licensing required.	12,291 437 A	PS None None	\$17.22 \$35,810
<b>Loan Interviewers and Clerks 43-4131</b> 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.	1,623 25 BA	HS None SOJT	\$15.42 \$32,070
<b>Loan Officers 13-2072</b> Evaluate, authorize, or recommend approval of commercial, real estate, or credit loans. Advise borrowers on financial status and payment methods.	2,491 63 BA	B None MOJT	\$31.76 \$66,060
<b>Locksmiths and Safe Repairers 49-9094</b> Repair and open locks; make keys; change locks and safe combinations; and install and repair safes.	159 6 D	HS None LOJT	\$15.24 \$31,710

Occupations	Job Outlook	Education	Earnings
<b>Lodging Managers 11-9081</b> Plan, direct, or coordinate activities of an organization or department that provides lodging and other accommodations.	630 24 BA	HS -5 None	\$18.55 \$38,580
<b>Log Graders and Scalers 45-4023</b> Grade logs or estimate the marketable content or value of logs or pulpwood in sorting yards, millpond, log deck, or similar locations.	193 3 D	HS None MOJT	\$15.89 \$33,050
<b>Logging Equipment Operators 45-4022</b> 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.	1,126 22 BA	HS None MOJT	\$16.24 \$33,770
<b>Machine Feeders and Offbearers 53-7063</b> Feed materials into or remove materials from machines or equipment that is automatic or tended by other workers.	2,709 59 BA	LHS None SOJT	\$13.99 \$29,100
<b>Machinists 51-4041</b> 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.	3,270 78 BA	HS None LOJT	\$17.27 \$35,920
<b>Magnetic Resonance Imaging Technologists 29-2035</b> Operate Magnetic Resonance Imaging (MRI) scanners. Monitor patient safety and comfort, and view images of area being scanned to ensure quality of pictures.	271 9 A	A -5 None	\$25.23 \$52,480
<b>Maintenance and Repair Workers, General 49-9071</b> 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.	12,510 304 BA	HS None LOJT	\$15.34 \$31,900
<b>Maintenance Workers, Machinery 49-9043</b> Lubricate machinery, change parts, or perform other routine machinery maintenance.	1,150 31 A	HS None MOJT	\$18.33 \$38,120
<b>Marketing Managers 11-2021</b> 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.	998 42 A	B 5+ None	\$57.16 \$118,880
<b>Massage Therapists 31-9011</b> 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.	703 18 A	PS None None	\$16.18 \$33,660
<b>Materials Engineers 17-2131</b> Evaluate materials and develop machinery and processes to manufacture materials for use in products that must meet specialized design and performance specifications.	111 5 BA	B None None	\$36.81 \$76,570
<b>Mechanical Drafters 17-3013</b> Prepare detailed working diagrams of machinery and mechanical devices, including dimensions, fastening methods, and other engineering information.	371 5 D	A None None	\$24.33 \$50,610
<b>Mechanical Engineering Technicians 17-3027</b> Apply theory and principles of mechanical engineering to modify, develop, test, or calibrate machinery and equipment under direction of engineering staff or physical scientists.	258 5 D	A None None	\$21.54 \$44,800
<b>Mechanical Engineers 17-2141</b> Perform engineering duties in planning and designing tools, engines, machines, and other mechanically functioning equipment.	1,279 43 D	B None None	\$34.80 \$72,390
<b>Medical and Clinical Laboratory Technicians 29-2012</b> Perform routine medical laboratory tests for the diagnosis, treatment, and prevention of disease.	1,407 59 A	A None None	\$17.25 \$35,880
<b>Medical and Clinical Laboratory Technologists 29-2011</b> Perform complex medical laboratory tests for diagnosis, treatment, and prevention of disease.	1,308 36 BA	B None None	\$23.63 \$49,150
<b>Medical and Health Services Managers 11-9111</b> Plan, direct, or coordinate medical and health services in hospitals, clinics, managed care organizations, public health agencies, or similar organizations.	2,205 75 A	B None None	\$37.58 \$78,170

Occupations	Job Outlook	Education	Earnings
<b>Medical Appliance Technicians 51-9082</b> Construct, fit, maintain, or repair medical supportive devices, such as braces, orthotics and prosthetic devices, joints, arch supports, and other surgical and medical appliances.	154 5 D	HS None LOJT	\$18.88 \$39,280
<b>Medical Assistants 31-9092</b> 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.	2,011 73 A	PS None None	\$13.02 \$27,080
<b>Medical Equipment Preparers 31-9093</b> Prepare, sterilize, install, or clean laboratory or healthcare equipment. May perform routine laboratory tasks and operate or inspect equipment.	220 6 A	HS None MOJT	\$13.21 \$27,490
<b>Medical Equipment Repairers 49-9062</b> Test, adjust, or repair biomedical or electromedical equipment.	270 10 BA	A None MOJT	\$17.14 \$35,650
<b>Medical Records and Health Information Technicians 29-2071</b> 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.	1,346 52 A	PS None None	\$15.47 \$32,180
<b>Medical Scientists, Except Epidemiologists 19-1042</b> 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.	296 7 BA	D None None	\$29.88 \$62,150
<b>Medical Secretaries 43-6013</b> Perform secretarial duties using specific knowledge of medical terminology and hospital, clinic, or laboratory procedures.	2,092 75 A	HS None MOJT	\$13.78 \$28,670
<b>Medical Transcriptionists 31-9094</b> 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.	718 13 BA	PS None None	\$14.50 \$30,150
<b>Mental Health and Substance Abuse Social Workers 21-1023</b> Assess and treat individuals with mental, emotional, or substance abuse problems, including abuse of alcohol, tobacco, and/or other drugs.	714 28 A	B None None	\$18.00 \$37,440
<b>Mental Health Counselors 21-1014</b> Counsel with emphasis on prevention. Work with individuals and groups to promote optimum mental and emotional health.	742 29 A	M None I/R	\$24.14 \$50,200
<b>Microbiologists 19-1022</b> Investigate the growth, structure, development, and other characteristics of microscopic organisms, such as bacteria, algae, or fungi.	152 4 D	B None None	\$34.93 \$72,660
<b>Middle School Teachers, Except Special and Career/Technical Education 25-2022</b> 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.	6,754 178 BA	B None I/R	N/A \$46,730
<b>Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic 51-4035</b> Set up, operate, or tend milling or planing machines to mill, plane, shape, groove, or profile metal or plastic work pieces.	360 10 BA	HS None MOJT	\$17.50 \$36,400
<b>Mixing and Blending Machine Setters, Operators, and Tenders 51-9023</b> Set up, operate, or tend machines to mix or blend materials, such as chemicals, tobacco, liquids, color pigments, or explosive ingredients.	1,312 61 A	HS None MOJT	\$18.48 \$38,440
<b>Mobile Heavy Equipment Mechanics, Except Engines 49-3042</b> 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.	1,306 40 BA	HS None LOJT	\$18.13 \$37,700
<b>Model Makers, Metal and Plastic 51-4061</b> Set up and operate machines, such as lathes, milling and engraving machines, and jig borers to make working models of metal or plastic objects.	36 0 D	HS None MOJT	\$21.64 \$45,000
<b>Molders, Shapers, and Casters, Except Metal and Plastic 51-9195</b> 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.	421 14 BA	HS None LOJT	\$13.81 \$28,720

Occupations	Job Outlook	Education	Earnings
<b>Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic 51-4072</b> Set up, operate, or tend metal or plastic molding, casting, or coremaking machines to mold or cast metal or thermoplastic parts or products.	1,508 29 BA	HS None MOJT	\$14.24 \$29,620
<b>Morticians, Undertakers, and Funeral Directors 39-4031</b> Perform various tasks to arrange and direct funeral services, such as coordinating transportation of body to mortuary, interviewing family or other authorized person to arrange details, selecting pallbearers, aiding with the selection of officials for religious rites, and providing transportation for mourners.	303 7 BA	A None LOJT	\$18.08 \$37,610
<b>Music Directors and Composers 27-2041</b> Conduct, direct, plan, and lead instrumental or vocal performances by musical groups, such as orchestras, bands, choirs, and glee clubs.	402 10 D	B -5 None	\$24.63 \$51,220
<b>Natural Sciences Managers 11-9121</b> Plan, direct, or coordinate activities in such fields as life sciences, physical sciences, mathematics, statistics, and research and development in these fields.	312 9 BA	B 5+ None	\$48.64 \$101,180
<b>Nuclear Medicine Technologists 29-2033</b> Prepare, administer, and measure radioactive isotopes in therapeutic, diagnostic, and tracer studies using a variety of radioisotope equipment.	165 3 BA	A None None	\$29.95 \$62,290
<b>Nurse Anesthetists 29-1151</b> Administer anesthesia, monitor patient's vital signs, and oversee patient recovery from anesthesia. May assist anesthesiologists, surgeons, other physicians, or dentists. Must be registered nurses who have specialized graduate education.	214 8 A	M None None	\$70.02 \$145,640
<b>Nurse Practitioners 29-1171</b> Diagnose and treat acute, episodic, or chronic illness, independently or as part of a healthcare team. May focus on health promotion and disease prevention. Must be registered nurses who have specialized graduate education.	795 34 AA	M None None	\$45.30 \$94,220
<b>Nursing Assistants 31-1014</b> Provide basic patient care under direction of nursing staff. Perform duties such as feed, bathe, dress, groom, or move patients, or change linens.	19,310 410 BA	PS None None	\$10.23 \$21,280
<b>Obstetricians and Gynecologists 29-1064</b> 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.	315 11 BA	D None I/R	\$118.63 \$246,750
<b>Occupational Health and Safety Specialists 29-9011</b> 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.	805 26 A	B None SOJT	\$28.43 \$59,140
<b>Occupational Health and Safety Technicians 29-9012</b> Collect data on work environments for analysis by occupational health and safety specialists.	87 2 BA	HS None MOJT	\$18.85 \$39,210
<b>Occupational Therapists 29-1122</b> 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.	1,059 21 A	M None None	\$37.82 \$78,670
<b>Occupational Therapy Aides 31-2012</b> Under close supervision of an occupational therapist or occupational therapy assistant, perform only delegated, selected, or routine tasks in specific situations.	31 0 BA	HS None SOJT	\$15.62 \$32,490
<b>Occupational Therapy Assistants 31-2011</b> Assist occupational therapists in providing occupational therapy treatments and procedures.	172 10 AA	A None None	\$25.57 \$53,190
<b>Office Clerks, General 43-9061</b> Perform duties too varied and diverse to be classified in any specific office clerical occupation, requiring knowledge of office systems and procedures.	29,594 744 BA	HS None SOJT	\$11.61 \$24,150
<b>Operating Engineers and Other Construction Equipment Operators 47-2073</b> 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.	4,079 86 D	HS None MOJT	\$16.65 \$34,630

Occupations	Job Outlook	Education	Earnings
<b>Ophthalmic Laboratory Technicians 51-9083</b> Cut, grind, and polish eyeglasses, contact lenses, or other precision optical elements. Assemble and mount lenses into frames or process other optical elements.	306 12 BA	HS None MOJT	\$13.71 \$28,520
<b>Ophthalmic Medical Technicians 29-2057</b> Assist ophthalmologists by performing ophthalmic clinical functions.	217 6 A	PS None None	\$14.86 \$30,910
<b>Opticians, Dispensing 29-2081</b> Design, measure, fit, and adapt lenses and frames for client according to written optical prescription or specification.	571 23 A	HS None LOJT	\$16.24 \$33,780
<b>Optometrists 29-1041</b> 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.	435 20 A	D None None	\$52.29 \$108,770
<b>Orderlies 31-1015</b> Transport patients to areas such as operating rooms or x-ray rooms using wheelchairs, stretchers, or moveable beds.	180 4 BA	HS None SOJT	\$9.12 \$18,980
<b>Packers and Packagers, Hand 53-7064</b> Pack or package by hand a wide variety of products and materials.	5,172 199 A	LHS None SOJT	\$10.30 \$21,430
<b>Painters, Construction and Maintenance 47-2141</b> Paint walls, equipment, buildings, bridges, and other structural surfaces, using brushes, rollers, and spray guns.	1,968 32 BA	LHS None MOJT	\$14.56 \$30,280
<b>Painters, Transportation Equipment 51-9122</b> Operate or tend painting machines to paint surfaces of transportation equipment, such as automobiles, buses, trucks, trains, boats, and airplanes.	782 20 BA	HS None MOJT	\$16.36 \$34,030
<b>Painting, Coating, and Decorating Workers 51-9123</b> Paint, coat, or decorate articles, such as furniture, glass, plateware, pottery, jewelry, toys, books, or leather.	77 2 D	LHS None MOJT	\$15.86 \$32,980
<b>Paper Goods Machine Setters, Operators, and Tenders 51-9196</b> 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.	1,762 16 D	HS None MOJT	\$17.81 \$37,040
<b>Paralegals and Legal Assistants 23-2011</b> Assist lawyers by investigating facts, preparing legal documents, or researching legal precedent.	1,454 49 A	A None None	\$19.07 \$39,660
<b>Parking Enforcement Workers 33-3041</b> Patrol assigned area, such as public parking lot or city streets to issue tickets to overtime parking violators and illegally parked vehicles.	395 20 A	HS None SOJT	\$13.51 \$28,100
<b>Parts Salespersons 41-2022</b> Sell spare and replacement parts and equipment in repair shop or parts store.	3,260 111 A	LHS None MOJT	\$13.67 \$28,440
<b>Patternmakers, Metal and Plastic 51-4062</b> Lay out, machine, fit, and assemble castings and parts to metal or plastic foundry patterns, core boxes, or match plates.	79 4 AA	HS None MOJT	N/A
<b>Payroll and Timekeeping Clerks 43-3051</b> Compile and record employee time and payroll data.	1,551 48 A	HS None MOJT	\$16.44 \$34,190
<b>Pediatricians, General 29-1065</b> Physicians who diagnose, treat, and help prevent children's diseases and injuries.	218 7 BA	D None I/R	\$78.43 \$163,140
<b>Personal Care Aides 39-9021</b> Assist the elderly, convalescents, or persons with disabilities with daily living activities at the person's home or in a care facility.	14,701 520 AA	LHS None SOJT	\$8.79 \$18,270

Occupations	Job Outlook	Education	Earnings
<b>Pharmacists 29-1051</b> Dispense drugs prescribed by physicians and other health practitioners and provide information to patients about medications and their use.	2,850 88 BA	D None None	\$52.63 \$109,470
<b>Pharmacy Aides 31-9095</b> 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.	684 16 BA	HS None SOJT	\$9.81 \$20,410
<b>Pharmacy Technicians 29-2052</b> 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.	3,506 76 A	HS None MOJT	\$13.05 \$27,140
<b>Phlebotomists 31-9097</b> Draw blood for tests, transfusions, donations, or research. May explain the procedure to patients and assist in the recovery of patients with adverse reactions.	1,478 53 A	PS None None	\$12.10 \$25,180
<b>Photographers 27-4021</b> Photograph people, landscapes, merchandise, or other subjects, using digital or film cameras and equipment.	1,140 10 D	HS None LOJT	\$13.28 \$27,610
<b>Photographic Process Workers and Processing Machine Operators 51-9151</b> Perform work involved in developing and processing photographic images from film or digital media.	405 13 D	HS None SOJT	\$10.42 \$21,670
<b>Physical Therapist Aides 31-2022</b> Under close supervision of a physical therapist or physical therapy assistant, perform only delegated, selected, or routine tasks in specific situations.	316 13 A	HS None SOJT	\$10.72 \$22,290
<b>Physical Therapist Assistants 31-2021</b> Assist physical therapists in providing physical therapy treatments and procedures.	861 35 A	A None None	\$23.32 \$48,510
<b>Physical Therapists 29-1123</b> 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.	1,675 70 A	D None None	\$37.04 \$77,040
<b>Physician Assistants 29-1071</b> Provide healthcare services typically performed by a physician, under the supervision of a physician. Conduct complete physicals, provide treatment, and counsel patients.	136 6 AA	M None None	\$38.15 \$79,350
<b>Pipelayers 47-2151</b> Lay pipe for storm or sanitation sewers, drains, and water mains.	323 6 BA	LHS None SOJT	\$15.29 \$31,800
<b>Plumbers, Pipefitters, and Steamfitters 47-2152</b> Assemble, install, alter, and repair pipelines or pipe systems that carry water, steam, air, or other liquids or gases.	3,364 63 BA	HS None App	\$18.66 \$38,820
<b>Police and Sheriff's Patrol Officers 33-3051</b> 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.	5,620 218 BA	HS None MOJT	\$17.81 \$37,050
<b>Police, Fire, and Ambulance Dispatchers 43-5031</b> Operate radio, telephone, or computer equipment at emergency response centers. Receive reports from the public of crimes, disturbances, fires, and medical or police emergencies.	1,324 47 BA	HS None MOJT	\$12.09 \$25,140
<b>Postal Service Mail Carriers 43-5052</b> Sort mail for delivery. Deliver mail on established route by vehicle or on foot.	2,875 96 D	HS None SOJT	\$23.63 \$49,150
<b>Postal Service Mail Sorters, Processors, and Processing Machine Operators 43-5053</b> Prepare incoming and outgoing mail for distribution. Examine, sort, and route mail.	869 7 D	HS None SOJT	\$21.83 \$45,400
<b>Postmasters and Mail Superintendents 11-9131</b> 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.	533 12 D	HS -5 MOJT	\$29.69 \$61,760

Occupations	Job Outlook	Education	Earnings
<b>Pourers and Casters, Metal 51-4052</b> Operate hand-controlled mechanisms to pour and regulate the flow of molten metal into molds to produce castings or ingots.	222 6 A	HS None MOJT	\$18.04 \$37,530
<b>Preschool Teachers, Except Special Education 25-2011</b> 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.	2,963 82 D	A None None	\$14.73 \$30,640
<b>Printing Press Operators 51-5112</b> Set up and operate digital, letterpress, lithographic, flexographic, gravure, or other printing machines. Includes short-run offset printing presses.	1,197 19 D	HS None MOJT	\$15.35 \$31,940
<b>Probation Officers and Correctional Treatment Specialists 21-1092</b> Provide social services to assist in rehabilitation of law offenders in custody or on probation or parole.	947 23 D	B None SOJT	\$17.12 \$35,620
<b>Production, Planning, and Expediting Clerks 43-5061</b> Coordinate and expedite the flow of work and materials within or between departments of an establishment according to production schedule.	2,314 60 BA	HS None MOJT	\$19.57 \$40,700
<b>Psychiatric Aides 31-1013</b> Assist mentally impaired or emotionally disturbed patients, working under direction of nursing and medical staff.	677 23 A	HS None SOJT	\$10.09 \$21,000
<b>Psychiatric Technicians 29-2053</b> Care for individuals with mental or emotional conditions or disabilities, following the instructions of physicians or other health practitioners.	580 10 A	PS None SOJT	\$11.46 \$23,830
<b>Psychiatrists 29-1066</b> Physicians who diagnose, treat, and help prevent disorders of the mind.	172 8 A	D None I/R	\$58.70 \$122,100
<b>Public Relations Specialists 27-3031</b> 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.	1,115 26 A	B None None	\$22.01 \$45,790
<b>Pump Operators, Except Wellhead Pumps 53-7072</b> Tend, control, or operate power-driven, stationary, or portable pumps and manifold systems to transfer gases, oil, other liquids, slurries, or powdered materials to and from various vessels and processes.	59 4 AA	LHS None MOJT	\$25.20 \$52,410
<b>Purchasing Managers 11-3061</b> Plan, direct, or coordinate the activities of buyers, purchasing officers, and related workers involved in purchasing materials, products, and services.	502 13 BA	B 5+ None	\$53.51 \$111,290
<b>Radiation Therapists 29-1124</b> Provide radiation therapy to patients as prescribed by a radiologist according to established practices and standards.	230 12 AA	A None None	\$35.15 \$73,110
<b>Radiologic Technologists 29-2034</b> Take x rays and CAT scans or administer nonradioactive materials into patient's blood stream for diagnostic purposes.	2,035 49 A	A None None	\$22.42 \$46,620
<b>Real Estate Sales Agents 41-9022</b> 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.	1,284 12 D	HS None LOJT	\$18.71 \$38,910
<b>Receptionists and Information Clerks 43-4171</b> 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.	8,387 326 A	HS None SOJT	\$11.22 \$23,340
<b>Recreation Workers 39-9032</b> Conduct recreation activities with groups in public, private, or volunteer agencies or recreation facilities.	1,968 39 BA	B None None	\$11.00 \$22,880
<b>Recreational Therapists 29-1125</b> Plan, direct, or coordinate medically-approved recreation programs for patients in hospitals, nursing homes, or other institutions.	167 3 BA	B None None	\$21.98 \$45,710

Occupations	Job Outlook	Education	Earnings
<b>Recreational Vehicle Service Technicians 49-3092</b> Diagnose, inspect, adjust, repair, or overhaul recreational vehicles including travel trailers.	214 8 D	HS None LOJT	\$14.07 \$29,260
<b>Refractory Materials Repairers, Except Brickmasons 49-9045</b> Build or repair equipment such as furnaces, kilns, cupolas, boilers, converters, ladles, soaking pits and ovens, using refractory materials.	33 2 AA	HS None MOJT	\$20.99 \$43,670
<b>Refuse and Recyclable Material Collectors 53-7081</b> Collect and dump refuse or recyclable materials from containers into truck. May drive truck.	1,469 40 BA	LHS None SOJT	\$12.51 \$26,020
<b>Registered Nurses 29-1141</b> 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.	23,213 640 A	A None None	\$27.00 \$56,150
<b>Rehabilitation Counselors 21-1015</b> 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.	362 10 BA	M None None	\$18.49 \$38,450
<b>Reinforcing Iron and Rebar Workers 47-2171</b> Position and secure steel bars or mesh in concrete forms in order to reinforce concrete. Use a variety of fasteners, rod-bending machines, blowtorches, and hand tools.	74 2 A	HS None App	\$16.78 \$34,910
<b>Residential Advisors 39-9041</b> Coordinate activities in resident facilities in secondary and college dormitories, group homes, or similar establishments.	616 40 A	HS None SOJT	\$11.95 \$24,860
<b>Respiratory Therapists 29-1126</b> Assess, treat, and care for patients with breathing disorders. Assume primary responsibility for all respiratory care modalities, including the supervision of respiratory therapy technicians.	940 18 BA	A None None	\$22.73 \$47,270
<b>Respiratory Therapy Technicians 29-2054</b> Provide respiratory care under the direction of respiratory therapists and physicians.	311 4 BA	A None MOJT	\$19.54 \$40,640
<b>Retail Salespersons 41-2031</b> Sell merchandise, such as furniture, motor vehicles, appliances, or apparel to consumers.	37,434 1,780 A	LHS None SOJT	\$11.50 \$23,910
<b>Roofers 47-2181</b> 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.	1,001 26 BA	LHS None MOJT	\$15.41 \$32,060
<b>Rotary Drill Operators, Oil and Gas 47-5012</b> 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.	304 12 D	LHS None MOJT	\$25.32 \$52,660
<b>Roustabouts, Oil and Gas 47-5071</b> Assemble or repair oil field equipment using hand and power tools. Perform other tasks as needed.	900 20 D	LHS None MOJT	\$18.85 \$39,200
<b>Sales Engineers 41-9031</b> Sell business goods or services, the selling of which requires a technical background equivalent to a baccalaureate degree in engineering.	220 5 BA	B None MOJT	\$46.52 \$96,750
<b>Sales Managers 11-2022</b> Plan, direct, or coordinate the actual distribution or movement of a product or service to the customer.	3,070 98 A	B -5 None	\$48.11 \$100,080
<b>Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products 41-4012</b> Sell goods for wholesalers or manufacturers to businesses or groups of individuals. Work requires substantial knowledge of items sold.	14,122 358 BA	HS None MOJT	\$25.74 \$53,530
<b>Secondary School Teachers, Except Special and Career/Technical Education 25-2031</b> Teach students in one or more subjects, such as English, mathematics, or social studies at the secondary level in public or private schools.	9,672 264 D	B None I/R	N/A \$47,970

Occupations	Job Outlook	Education	Earnings
<b>Secretaries and Administrative Assistants, Except Legal, Medical, and Executive 43-6014</b> Perform routine clerical and administrative functions such as drafting correspondence, scheduling appointments, organizing and maintaining paper and electronic files, or providing information to callers.	24,054 512 BA	HS None SOJT	\$13.50 \$28,080
<b>Securities, Commodities, and Financial Services Sales Agents 41-3031</b> Buy and sell securities or commodities in investment and trading firms, or provide financial services to businesses and individuals.	1,111 40 A	B None MOJT	\$42.80 \$89,030
<b>Security and Fire Alarm Systems Installers 49-2098</b> Install, program, maintain, and repair security and fire alarm wiring and equipment. Ensure that work is in accordance with relevant codes.	399 6 D	HS None MOJT	\$15.04 \$31,280
<b>Self-Enrichment Education Teachers 25-3021</b> Teach or instruct courses other than those that normally lead to an occupational objective or degree.	705 18 BA	HS -5 None	\$17.01 \$35,390
<b>Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders 51-9012</b> Set up, operate, or tend continuous flow or vat-type equipment; filter presses; shaker screens; centrifuges; condenser tubes; precipitating, fermenting, or evaporating tanks; scrubbing towers; or batch stills.	381 14 BA	HS None MOJT	\$18.36 \$38,180
<b>Service Unit Operators, Oil, Gas, and Mining 47-5013</b> 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.	464 18 D	LHS None MOJT	\$21.26 \$44,220
<b>Set and Exhibit Designers 27-1027</b> Design special exhibits and movie, television, and theater sets.	101 4 A	B None None	N/A
<b>Sewing Machine Operators 51-6031</b> Operate or tend sewing machines to join, reinforce, decorate, or perform related sewing operations in the manufacture of garment or nongarment products.	1,322 7 D	LHS None SOJT	\$10.29 \$21,400
<b>Sheet Metal Workers 47-2211</b> Fabricate, assemble, install, and repair sheet metal products and equipment, such as ducts, control boxes, drainpipes, and furnace casings.	1,546 31 BA	HS None App	\$16.21 \$33,710
<b>Shipping, Receiving, and Traffic Clerks 43-5071</b> Verify and maintain records on incoming and outgoing shipments. Prepare items for shipment.	5,099 132 D	HS None SOJT	\$13.82 \$28,740
<b>Slaughterers and Meat Packers 51-3023</b> Work in slaughtering, meat packing, or wholesale establishments performing precision functions involving the preparation of meat.	1,031 24 D	LHS None SOJT	\$10.71 \$22,290
<b>Social and Community Service Managers 11-9151</b> Plan, direct, or coordinate the activities of a social service program or community outreach organization.	1,293 36 BA	B 5+ None	\$25.06 \$52,130
<b>Social and Human Service Assistants 21-1093</b> Assist in providing client services in a wide variety of fields, such as psychology, rehabilitation, or social work, including support for families.	3,870 155 A	HS None SOJT	\$13.00 \$27,040
<b>Software Developers, Applications 15-1132</b> Develop, create, and modify general computer applications software or specialized utility programs.	1,963 64 A	B None None	\$38.29 \$79,640
<b>Software Developers, Systems Software 15-1133</b> 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.	1,038 29 A	B None None	\$34.53 \$71,830
<b>Special Education Teachers, Kindergarten and Elementary School 25-2052</b> Teach elementary school subjects to educationally and physically handicapped students.	1,592 26 D	B None I/R	N/A \$45,460
<b>Special Education Teachers, Middle School 25-2053</b> Teach middle school subjects to educationally and physically handicapped students.	856 14 D	B None I/R	N/A \$49,250

Occupations	Job Outlook	Education	Earnings
<b>Special Education Teachers, Preschool 25-2051</b> Teach preschool school subjects to educationally and physically handicapped students.	381 8 BA	B None I/R	N/A \$35,790
<b>Special Education Teachers, Secondary School 25-2054</b> Teach secondary school subjects to educationally and physically handicapped students.	1,267 20 D	B None I/R	N/A \$48,930
<b>Speech-Language Pathologists 29-1127</b> Assess and treat persons with speech, language, voice, and fluency disorders. May select alternative communication systems and teach their use.	1,772 39 BA	M None None	\$33.90 \$70,510
<b>Stock Clerks and Order Fillers 43-5081</b> 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.	15,838 504 D	LHS None SOJT	\$10.60 \$22,050
<b>Stonemasons 47-2022</b> Build stone structures, such as piers, walls, and abutments. Lay walks, curbstones, or special types of masonry for vats, tanks, and floors.	130 6 AA	HS None App	\$16.18 \$33,660
<b>Structural Iron and Steel Workers 47-2221</b> Raise, place, and unite iron or steel girders, columns, and other structural members to form completed structures or structural frameworks.	638 21 BA	HS None App	\$17.81 \$37,040
<b>Substance Abuse and Behavioral Disorder Counselors 21-1011</b> Counsel and advise individuals with alcohol, tobacco, drug, or other problems, such as gambling and eating disorders.	524 21 A	HS None MOJT	\$16.82 \$34,990
<b>Surgeons 29-1067</b> 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.	405 18 A	D None I/R	\$112.14 \$233,250
<b>Surgical Technologists 29-2055</b> Assist in operations, under the supervision of surgeons, registered nurses, or other surgical personnel.	958 26 A	PS None None	\$19.10 \$39,740
<b>Tax Examiners and Collectors, and Revenue Agents 13-2081</b> Determine tax liability or collect taxes from individuals or business firms according to prescribed laws and regulations.	727 26 BA	B None MOJT	\$23.30 \$48,450
<b>Tax Preparers 13-2082</b> Prepare tax returns for individuals or small businesses.	1,290 51 A	HS None MOJT	\$12.85 \$26,730
<b>Technical Writers 27-3042</b> Write technical materials, such as equipment manuals, appendices, or operating and maintenance instructions.	117 4 BA	B -5 SOJT	\$22.56 \$46,930
<b>Telecommunications Equipment Installers and Repairers, Except Line Installers 49-2022</b> Install, set-up, rearrange, or remove switching, distribution, routing, and dialing equipment used in central offices or headends.	1,162 18 D	PS None MOJT	\$24.38 \$50,720
<b>Telecommunications Line Installers and Repairers 49-9052</b> Install and repair telecommunications cable, including fiber optics.	945 22 D	HS None LOJT	\$21.02 \$43,710
<b>Tellers 43-3071</b> Receive and pay out money. Keep records of money and negotiable instruments involved in a financial institution's various transactions.	6,532 342 D	HS None SOJT	\$11.44 \$23,790
<b>Tile and Marble Setters 47-2044</b> Apply hard tile, marble, and wood tile to walls, floors, ceilings, and roof decks.	168 3 BA	LHS None LOJT	\$13.97 \$29,070
<b>Tire Repairers and Changers 49-3093</b> Repair and replace tires.	942 42 BA	HS None SOJT	\$12.07 \$25,100

Occupations	Job Outlook	Education	Earnings
<b>Title Examiners, Abstractors, and Searchers 23-2093</b> Search real estate records, examine titles, or summarize pertinent legal or insurance documents or details for a variety of purposes.	594 14 A	HS None SOJT	\$17.37 \$36,120
<b>Training and Development Specialists 13-1151</b> Design and conduct training and development programs to improve individual and organizational performance.	1,503 49 A	B -5 None	\$22.62 \$47,040
<b>Transportation Attendants, Except Flight Attendants 53-6061</b> Provide services to ensure the safety and comfort of passengers aboard ships, buses, trains, or within the station or terminal.	102 2 D	HS None SOJT	\$9.09 \$18,910
<b>Transportation Security Screeners 33-9093</b> Conduct screening of passengers, baggage, or cargo to ensure compliance with Transportation Security Administration (TSA) regulations.	223 10 A	HS None SOJT	\$17.63 \$36,660
<b>Transportation, Storage, and Distribution Managers 11-3071</b> Plan, direct, or coordinate transportation, storage, or distribution activities in accordance with organizational policies and applicable government laws or regulations. Includes logistics managers.	1,644 51 A	HS 5+ None	\$46.07 \$95,820
<b>Travel Agents 41-3041</b> Plan and sell transportation and accommodations for travel agency customers. Determine destination, modes of transportation, travel dates, costs, and accommodations required.	146 2 D	HS None MOJT	\$17.80 \$37,030
<b>Urban and Regional Planners 19-3051</b> Develop comprehensive plans and programs for use of land and physical facilities of jurisdictions, such as towns, cities, counties, and metropolitan areas.	86 5 A	M None None	\$22.69 \$47,200
<b>Veterinarians 29-1131</b> Diagnose, treat, or research diseases and injuries of animals.	577 19 BA	D None None	\$42.10 \$87,580
<b>Veterinary Technologists and Technicians 29-2056</b> 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.	276 6 A	A None None	\$14.53 \$30,220
<b>Waiters and Waitresses 35-3031</b> Take orders and serve food and beverages to patrons at tables in dining establishment.	18,500 1,087 BA	LHS None SOJT	\$8.25 \$17,170
<b>Web Developers 15-1134</b> Design, create, and modify Web sites. Analyze user needs to implement Web site content, graphics, performance, and capacity.	669 21 A	A None None	\$29.21 \$60,760
<b>Welders, Cutters, Solderers, and Brazers 51-4121</b> 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.	5,137 166 BA	HS None MOJT	\$17.02 \$35,400
<b>Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders 51-4122</b> Set up, operate, or tend welding, soldering, or brazing machines or robots that weld, braze, solder, or heat treat metal products, components, or assemblies.	501 18 A	HS None MOJT	\$16.44 \$34,190
<b>Zoologists and Wildlife Biologists 19-1023</b> Study the origins, behavior, diseases, genetics, and life processes of animals and wildlife. May specialize in wildlife research and management.	181 5 BA	B None None	\$25.03 \$52,070

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# The Road to College

8<sup>th</sup>  
& 9<sup>th</sup>

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.

10<sup>th</sup>

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.

11<sup>th</sup>

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.

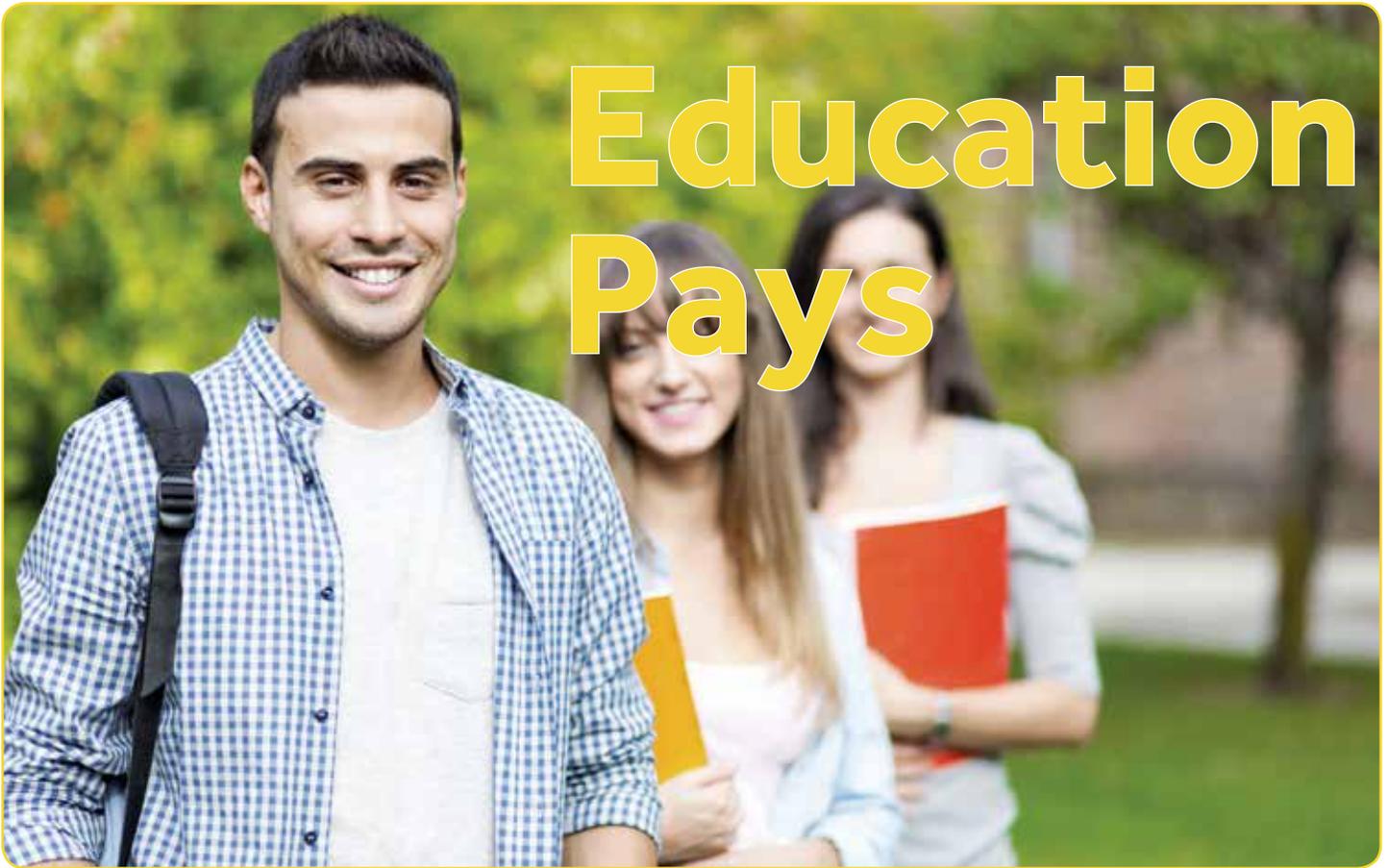
12<sup>th</sup>

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 January 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 with a Bachelor's degree earn \$457 more a week than a high school graduate.**

<b>Doctoral degree</b>	<b>\$1,623</b>
<b>Professional degree</b>	<b>\$1,714</b>
<b>Master's degree</b>	<b>\$1,329</b>
<b>Bachelor's degree</b>	<b>\$1,108</b>
<b>Associate degree</b>	<b>\$777</b>
<b>Some college, no degree*</b>	<b>\$727</b>
<b>High school diploma</b>	<b>\$651</b>
<b>Less than a high school diploma</b>	<b>\$472</b>

\* Earnings for a person having any postsecondary 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.

Median weekly wages in 2013. Data are 2013 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.

**What do you want to do for a living?**



**Discover  
your  
options!**

**MY NEXT MOVE**  
can help you  
**find out!**

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.

**[www.mynextmove.org](http://www.mynextmove.org)**

**MY NEXT MOVE**  **MI PRÓXIMO PASO**



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.

A "Lifestyle Budget Calculator"

# *Real-Life Arkansas*

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

[www.real-life.arkansas.gov](http://www.real-life.arkansas.gov)

## **Option #1: The whole nine yards**

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

## **Option #2: Show me the money**

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

## **Option #3: The bizarro budget**

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



# So, You Want To Go Pro?

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

**More than 2.5 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?**

## 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	3.3%	3.7%	6.5%	6.8%
Percent NCAA to Professional	1.2%	0.9%	1.6%	9.4%
Percent High School to Professional	0.03%	0.03%	0.08%	0.50%

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

**Have a back-up plan.**

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

**Coaches and Scouts • Reporters and Correspondents  
Public Relations Specialists • Photographers  
Athletic Trainers • Physical Therapists**

**Find these and other occupations at [www.discover.arkansas.gov](http://www.discover.arkansas.gov)**



# An Arkansas Workforce Center can...

- Assist with finding employment.
- Provide access to the Arkansas Joblink System.
- Provide Occupational Skills Assessments and Job Matching.
- Assist job seekers with creating resumes and provide interviewing tips.
- Provide labor market information, including In Demand jobs.
- Assess training needs.
- Assist those filing for unemployment insurance.
- All services are FREE!

[www.arjoblink.com](http://www.arjoblink.com)



## For Career Information or Job Search Help, Visit an Arkansas Comprehensive Workforce Center

### North Central Arkansas

396 Barnett Drive  
Batesville, AR 72503  
870.793.4156

501 W. Arch Avenue  
Searcy, AR 72145  
501.268.8601

### Eastern Arkansas

300 Eldridge Rd.  
Suite #2  
Forrest City, AR 72336  
870.633.2900

2003 W. Broadway  
West Memphis, AR 72301  
870.400.2269

### Western Arkansas

616 Garrison Ave.  
Room 101  
Fort Smith, AR 72902  
479.783.0231

### Southwest Arkansas

237 Jackson St. SW  
Camden, AR 71711  
870.836.5024

205 Smith Road, Suite A  
Hope, AR 71802  
870.777.3421

523 E. Sixth Street  
El Dorado, AR 71730  
870.862.6456

### Southeast Arkansas

130 W. Waterman  
Dumas, AR 71639  
870.382.1017

477 S. Main Street  
Monticello, AR 71657  
870.367.2476

1001 S. Tennessee  
Pine Bluff, AR 71611  
870.534.1920

### Northwest Arkansas

2143 W. Martin Luther King, Jr. Blvd.  
Fayetteville, AR 72701  
479.521.5730

818 Hwy 62/65/412 North  
NWAEDD Plaza  
Harrison, AR 72602  
870.741.8236

1058 Highland Circle  
Suite 20  
Mountain Home, AR 72654  
870.425.2386

100 North Dixieland Road  
Suite B1-5  
Rogers, AR 72757  
479.636.4755

809 South Mount Olive  
Siloam Springs, AR 72761  
479.524.5181

### City of Little Rock

5401 S. University Ave.  
Little Rock, AR 72209  
501.682.7719

### West Central Arkansas

2254 Albert Pike  
Suite F  
Hot Springs, AR 71914  
501.525.3450

1725 E. Sullenberger  
Malvern, AR 72104  
501.332.5461

104 South Rochester  
Russellville, AR 72801  
479.968.2784

### Northeast Arkansas

2311 E. Nettleton  
Jonesboro, AR 72403  
870.935.5594

1015 Linwood Drive, Suite 4  
Paragould, AR 72450  
870.236.8512

### Central Arkansas

1500 N. Museum Rd.  
Suite 109  
Conway, AR 72032  
501.730.9894



Jobs for People. People for Jobs.  
**DWS**  
Department of  
WORKFORCE Services

**ARKANSAS**  
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CENTERS  
Bringing People and Jobs Together.™

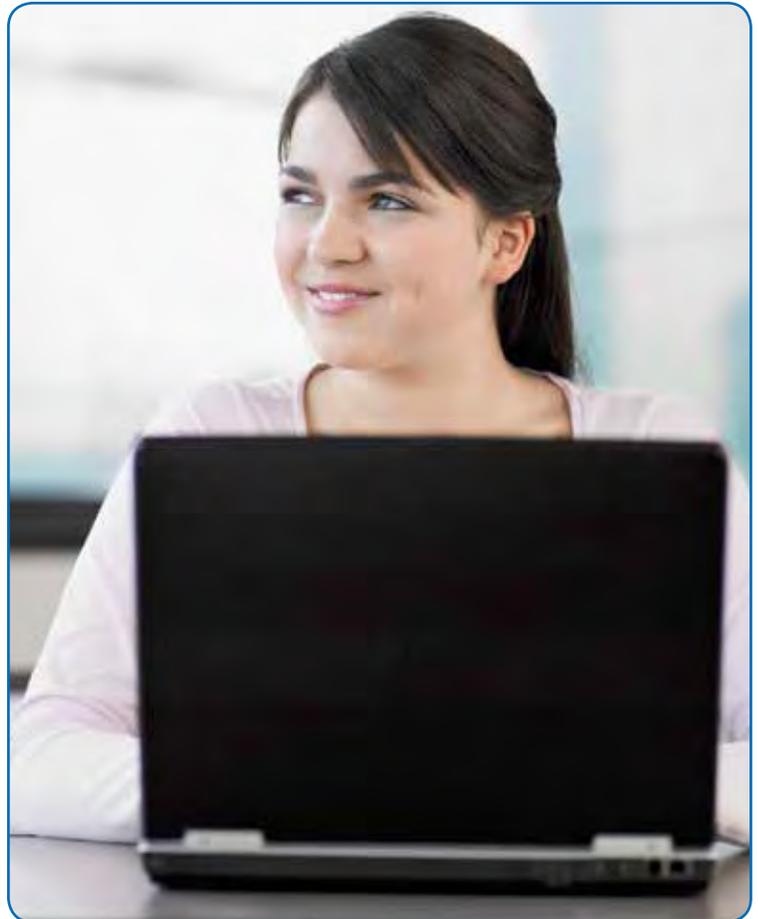
# Be Career Ready.

**ACT**<sup>®</sup> Career Ready 101™

## It's Free – to You!

Explore careers and their skill requirements, and build life-literacy through lessons about financial awareness and job searching, while preparing for the Arkansas Career Readiness Certificate.

You can test for the CRC at 16, and it's transferable nationwide.



The CRC, signed by the Governor of Arkansas, confirms to employers that you have these basic workplace skills:

**Reading for Information**  
**Applied Mathematics**  
**Locating Information**

To see if your high school participates in this program go to: [www.arkansasatwork.org](http://www.arkansasatwork.org), call 1-855-225-4440, or contact your nearest Arkansas Workforce Center.

Jobs for People. People for Jobs.  
**DWS**  
Department of  
WORKFORCE Services

ARKANSAS  
**WORKFORCE**  
CENTERS  
Bringing People and Jobs Together.™

There's never been  
a **better time**  
to go to college  
or an **easier way**  
to apply for financial aid



The Arkansas Department of Higher Education reviews and approves academic programs for the state's 11 public universities and 22 public two-year colleges. In addition, the agency is responsible for distributing approximately \$150 million annually from state revenues and lottery funds in the form of financial aid.

For complete information about our programs, visit [www.adhe.edu](http://www.adhe.edu) to review program rules and regulations. The eligibility requirements and rules governing the programs administered by ADHE are subject to legislative and regulatory amendments. Please e-mail the Financial Aid Division at [finaid@adhe.edu](mailto:finaid@adhe.edu) for additional information.

- Application period is from January 1 to June 1 for upcoming academic year
- Must complete FAFSA as well as YOUuniversal scholarship application
- Download free YOUuniversal app for any smart phone





**You may not have a magic wand  
to grant wishes every day,  
but inspiring children  
empowers them to make their  
own dreams come true.**

**If you want to impact Arkansas's future,  
consider a career as an  
Arkansas public school teacher.**

**Teachers are provided the unique  
opportunity to educate, motivate, and  
inspire students.**

**Today's teachers equip students with  
college and career readiness  
skills necessary for success  
in the 21st century.**

**Arkansas schools need teachers.  
The most urgent staffing needs  
are in the following areas:**

- Business Technology
- Gifted and Talented
- Guidance and Counseling
- Library Media Specialist
- Secondary Mathematics
- Middle Childhood Education
  - Music
- Secondary Sciences
- Special Education

**Make plans now to pursue a  
career full of promise,  
possibilities, and potential.**

**Inspire Today.  
Impact Tomorrow.  
TEACH!**



**ARKANSAS  
DEPARTMENT  
OF EDUCATION**

***www.arkansased.org***  
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***Like us on Facebook at Arkansas Department of Education.***

# GET SKILLED. CERTIFIED. A JOB.



*"Microsoft IT Academy changed my life! The training and certification made it much easier to get interviews and get a better job!"*

## WHAT ARE YOU WAITING FOR?

**Ask your teacher or guidance counselor how you can enroll in Microsoft IT Academy, or contact your local Arkansas Workforce Center!**

**Microsoft IT Academy training and certification are FREE!**

## **Microsoft** *IT Academy Program*

- Get an edge in the job market.
- Broaden your employment opportunities.
- Increase your earning potential.

✓ **Word**      ✓ **PowerPoint**  
✓ **Excel**     ✓ **Much More!**

There's an increasing need for employees highly skilled and certified in Microsoft technologies.

- More than 50% of today's jobs require some degree of technology skills.<sup>1</sup>
- 91% of hiring managers consider employee certification as a requirement for hiring.<sup>1</sup>
- 81% of hiring managers believe certified individuals perform better than non-certified peers.<sup>1</sup>

<sup>1</sup> US Bureau of Labor Statistics

**1-855-225-4440**  
**www.ARJobLink.com**

A proud partner of the  
**americanjobcenter**  
network

Equal Opportunity Employers/Programs

**ARKANSAS**  
**WORKFORCE**  
**CENTERS**  
Bringing People and Jobs Together.<sup>SM</sup>



 /SOSPROJECTPREVENT

## DON'T LET BIG TOBACCO PLAY YOU.

Tobacco companies market toward youth by offering cigars in a wide variety of sweet flavors. Take a stand against Big Tobacco at [SOSProjectPrevent.com](http://SOSProjectPrevent.com).







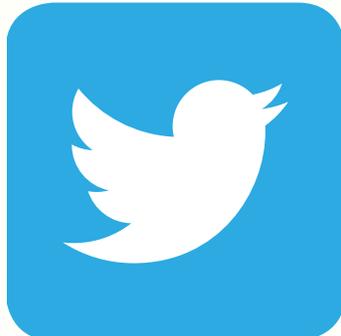


# Explore *Your Future* Occupation

- Employment Statistics
- Business Listings
- Wage and Salary Information
- Economic and Demographic Data
- Education and Training

[www.discover.arkansas.gov](http://www.discover.arkansas.gov)  
Your labor market information source!

*Just an app away.*



**careerwatchar**

## **Be Connected with Career Watch Arkansas**

Discover:

Occupations

Resume and Interview Tips

Education and Career News

Arkansas Colleges and Universities

[www.discover.arkansas.gov](http://www.discover.arkansas.gov) • [www.careerwatch.org](http://www.careerwatch.org)  
[www.dws.arkansas.gov](http://www.dws.arkansas.gov)



Labor Market Information • Occupational Career Information  
P.O. Box 2981  
Little Rock, AR 72203  
501-682-3121

