

Financial Ratings Series

**WeissRatings**  
& Grey House Publishing

Financial Literacy: Planning for the Future

# Starting a Career & Career Advancement

2024/25



GREY HOUSE PUBLISHING



Financial Literacy:  
Planning for the Future  
**Starting a Career & Career  
Advancement**





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Advancement**

**2024/25 Edition**



**GREY HOUSE PUBLISHING**



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# Welcome!

Grey House Publishing and Weiss Ratings are proud to announce the fifth edition of *Financial Literacy: Planning for the Future*. Each volume in this series provides readers with easy-to-understand guidance on how to manage their finances. This eight-volume set assists readers who are ready for one—or more—of many important next steps in their financial planning—starting a family, buying a home, weighing insurance options, protecting themselves from identify theft, planning for college and so much more. *Financial Literacy: Planning for the Future* takes readers further towards their financial goals.

Written in easy-to-understand language, these guides take the guesswork out of financial planning. Each guide is devoted to a specific topic relevant to making big decisions with significant financial impact. Combined, these eight guides provide readers with helpful information on how to best manage their money and plan for their future and their family's future. Readers will find helpful guidance on:

- Financial Planning for **Living Together, Getting Married & Starting a Family**
- **Buying a Home**
- **Insurance Strategies & Estate Planning**
- Making the Right **Health Care Coverage** Choices
- Protect Yourself from **Identify Theft & Other Scams**
- **Starting a Career & Career Advancement**
- **Saving for Your Child's Education**
- **Retirement Planning Strategies** & the Importance of Starting Early

Filled with valuable information alongside helpful worksheets and planners, these volumes are designed to point you in the right direction toward a solid financial future, and give you helpful guidance along the way.



# Planning for the Future: Starting a Career & Career Advancement



## Choosing to Choose

Some people knew as a child what they wanted to be when they

grew up and followed that career path throughout their life. For most of us, on the other hand, our career paths are not as straightforward.

There are many choices to consider when selecting a career path. A good starting point might be to ask yourself some questions.

- What am I interested in?
- What am I good at?
- What am I passionate about?
- What does it mean to be successful?

Work takes up about half of our waking lives, and, for most people, our jobs give us a social identity. Good career planning means looking with clear sight at your current situation and being able to envision your career in the future.

That career future is your choice and you have the ultimate freedom to make decisions about your potential career path based on your passions, interests, and skill sets. In other words, you can choose to choose. Of course, there are limitations to our possible actions, but the more we feel like we are in control of our own lives and agents of our futures, the more happiness we will have.

You may be already established on a career path, considering a new career, or just starting out. This guide is intended to provide practical ideas that will be meaningful in each of these cases.



## Evaluating Your Career Path

In evaluating your career path, you might want to think in terms of the long-term and the short. Your long-range vision, what you're shooting *for*, isn't necessarily what you're shooting *at* today. Let your long-range thinking



be shaped by as much self-knowledge as you have available.

For many, having a job with a purpose or a mission matters more than making a lot of money. This can happen at the beginning of your career, or it can change over time. Usually, when that happens, the change is a good one that results in a more rewarding possibility.

Every career path has twists, turns, and forks in the road. You might have come out of law school planning to be a high-powered corporate attorney who will retire at fifty and travel the world. Then, in your thirties, you found that you derive purpose from helping the poor and the disadvantaged. Do you take the leap and the pay-cut and go to work for a nonprofit?

Some people choose to dramatically modify their career course by taking time off to raise their children or to follow other dreams. These are hard choices with salary implications for years to come. But, with deep personal reflection on what matters most and what path will bring about the most personal satisfaction and happiness, making the hard choice can ultimately be the right one.

Once you've done the deep thinking part, the rest is mere technique. It goes without saying that you need to understand the *ladder* in your chosen field. In the nursing field, for instance, a candidate might begin their career as a Certified Nurse Assistant, move on to become a Licensed Practical Nurse, and ultimately reach the level of Registered Nurse. Climbing the ladder might involve a series of

## Lessons from the Legacy Project

The Legacy Project was founded in 2004 by Karl Pillemer, a professor of human development at Cornell University. The project is simple in design but profound in its implications. He sent out a survey to collect responses from Americans over the age of seventy, hoping to discover their collective wisdom. The one question he asked them is this: "What are the most important lessons you have learned over the course of your life?" When it came to the matter of careers, the almost unanimous reply was, **"Try to be involved in what you love for your work."** Of the one thousand people that Dr. Pillemer interviewed, not one of them said, "Try to make a lot of money in order to fund doing what you really love when you're not at work."

*You can learn more about the Legacy Project at <https://legacyproject.human.cornell.edu/>.*



accreditations, developing skills, and earning promotions, or other means of adding job responsibility. These things vary by field, but the ladder can be your initial structuring tool for planning advancement in your career.

There has been a trend toward accomplishment by young individuals in the last decade or so. Think of high school students founding nonprofits as one example. As a result, many professional programs have skewed younger and younger. Imagine the whiz kid who finishes a PhD in clinical psychology and obtains a professional license to practice at the age of twenty-five. He's done everything right—better than his peers—but he can't find enough clients to support a private practice because, of course, he's only twenty-five years old.

Thus, it is important to be realistic and have a realistic plan for advancement. This can be difficult for some if they are accustomed to easy advancement or believe that workplace trends in one industry, like the young workforce in information technology, are the trends everywhere. They are not, and most fields and industries have long-established and regimented pathways for advancement.



## Career and Personality Tests

If you are re-evaluating your current job trajectory or thinking about a

new career, there are a variety of career suitability and personality tests available for you to take, either online or from career counseling services and career coaches. Even if you think you don't need these tools, they can't hurt. The Myers-Briggs Personality Test (<https://www.mbtionline.com>), in particular, has had a good run in a number of settings, including online dating as well as human resources.

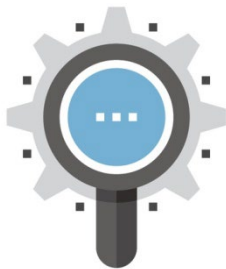
Often, however, we rely on tests like these to be external validators for things that we already know. "Look! I'm an introvert! This quiz says so." Certainly, these tools can be helpful when you are mulling over ideas, but ultimately the surest route to self-knowledge is self-reflection.

You can explore this list of free career tests and personality assessment tools to help you get started:

- [123test.com/career-test/](https://123test.com/career-test/)
- [16personalities.com/free-personality-test](https://16personalities.com/free-personality-test)
- [assessment.com](https://assessment.com)
- [careerexplorer.com/career-test/](https://careerexplorer.com/career-test/)
- [careerfitter.com/free\\_test/careerbuilder/test](https://careerfitter.com/free_test/careerbuilder/test)



- [careeronestop.org/Toolkit/Careers/interest-assessment.aspx](http://careeronestop.org/Toolkit/Careers/interest-assessment.aspx)
- [careerwise.minnstate.edu/careers/clusterSurvey](http://careerwise.minnstate.edu/careers/clusterSurvey)
- [humanmetrics.com](http://humanmetrics.com)
- [mynextmove.org/explore/ip](http://mynextmove.org/explore/ip)
- [myplan.com/assess/values.php](http://myplan.com/assess/values.php)
- [openpsychometrics.org/tests/IP-IP-BFFM/](http://openpsychometrics.org/tests/IP-IP-BFFM/)
- [predictiveindex.com/assessments/behavioral-assessment](http://predictiveindex.com/assessments/behavioral-assessment)
- [princetonreview.com/quiz/career-quiz](http://princetonreview.com/quiz/career-quiz)
- [profile.keirseey.com/#/b2c/assessment/start](http://profile.keirseey.com/#/b2c/assessment/start)
- [rasmussen.edu/student-experience/college-life/aptitude-test](http://rasmussen.edu/student-experience/college-life/aptitude-test)
- [truity.com/view/tests/personality-career](http://truity.com/view/tests/personality-career)
- [yourfreecareertest.com](http://yourfreecareertest.com)



## Where to Look for Jobs

Experts say that if you are job hunting your first step should be to tell your network that you are looking. Let your friends, family members, current and former coworkers, classmates, and your social network know that you are job hunting. You'd be

surprised how many connections you make just by spreading the word.

Sometimes, getting introduced to a company through your network can open doors and give you a leg up from other candidates. Ask your network if their company is hiring, or if they have a connection to a company that might be a good fit for you.

Research companies that you think would be a good fit for your career goals. It can't hurt to send your resume to companies that don't have a posted job opening. You might catch them just as they were about to post an opening or getting ready to expand.



## Job Search Engines & Job Boards

There are hundreds of job search engines and job boards online these days. Most sites will allow you to enter specific search criteria, like job type, location, and specific keywords to help you narrow your search and quickly find available jobs that match your criteria. Some will even let you fill out a questionnaire and alert you to openings that match your profile.





According to The Balance, the best job search sites of 2023<sup>1</sup> are:

1. Indeed
2. Monster
3. Glassdoor
4. FlexJobs
5. Ladders
6. Wellfound
7. LinkedIn
8. Getwork
9. Snagajob



## Job Centers

You can also visit your local job center. Funded by the U.S. Department of

Labor's Employment and Training Administration, staff at these centers can help you search for jobs, find training, and answer additional employment related questions.

These job centers often have a resource room that has a computer with internet access, a phone, and a fax machine for the public to use. They can help you with job training

assistance, career counseling, interview practice sessions, and resume writing help.

You can find a job center in your area at [CareerOneStop.org](https://www.careeronestop.org).



## The Library

Your local public library is another resource available to you. They have

information on how to find jobs in your area and on potential career paths. They might even offer resume help as well as classes to build your skill set. Some libraries also offer job seeking assistance and counseling too.



## How to Write a Resume That Stands Out

Employers often receive hundreds of resumes and applications for a single job posting. The time that you spend polishing your resume is time well spent.

- **Design is important.** You want your resume to stand apart from others in the pile. A simple, clean, and modern design is best. You can

<sup>1</sup> <https://www.thebalancemoney.com/top-best-job-websites-2064080>

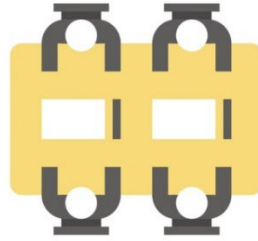
download a template online, or use a prebuilt template in your word processing software to get started. Use a font size of 10-12 to make it easy to read.

- **Put the good stuff at the top.** If an employer scans the top of your resume, you want the important information to be there where they can see it quickly. A summary statement that outlines why you are a good choice for the job is important. Keep your contact information at the top of the page brief so you can devote more space for important achievements.
- **Words Matter.** Take the time to update your resume each time you send it to an employer. Update the summary statement so that it applies to the job you are applying for. Include key words from the job posting in your resume, if they apply to your previous experience. Some larger employers use an applicant tracking system (ATS) that scans for keywords and highlights candidates that best match what they're looking for. If those keywords are not in your resume, your application might get overlooked.
- **Focus on Skills.** Your resume should showcase the skills you have developed over the course of your career. Put your most advanced skills at the top of the list and work backward.
- **Highlight Your Successes.** Instead of just listing your previous job responsibilities, highlight your successes too. Awards and honors should be noted as well. Include statistics, if you can, like percentage increases in sales or percentage decreases in costs.
- **One or two pages max.** Most resumes should be confined to a single page, or two pages if you have been in your career for more than 10 years. You want to highlight your best accomplishments and abilities, but keep it short so your potential employer can learn about you without having to read through a very long document.
- **Make sure it looks good on the screen and on paper.** Do a test print to make sure everything prints correctly. Your resume should be readable on multiple screens and on different types of computers. Sending your resume as a PDF file is a good choice.





- **Create a customized cover letter.** When you send your resume, include a cover letter that has been customized for the job you are applying for. The cover letter gives you another opportunity to say why you would be an excellent candidate for their job opening.
- **Take the time to proofread.** There is no room for typos on your resume. Read it carefully for spelling errors and punctuation. Have a family member or friend read it too, and give you their feedback.
- **Use a professional email address.** Some employers will not seriously consider a candidate with a silly or inappropriate email address. A good rule of thumb is to use your name as your email address.
- Above all, **be honest.**



## Getting Ready for Your Interview

Here are a few tips from the experts on how to prepare for and conduct a solid job interview:

- **Review the job description.** Make a list of qualities or skills that are mentioned in the job posting and make notes on how your experience fits those qualifications.
- **Research the company.** Take a look at the company's website. Read some of its recent press releases. Read some of the company's reviews. Taking the time to research the company will help you prepare to answer potential questions. Make a list of any questions you might want to ask the interviewer.
- **Practice.** It can help to practice an in-person interview or a phone interview with a friend or family member beforehand.
- **Your social media can help or hurt you.** According to a recent CareerBuilder survey, "seven in ten employers (70 percent) use social networking sites to research job candidates during their hiring process. Nearly half



of employers (48 percent) check up on current employees on social media.<sup>2</sup> Consider that a potential employer might review your recent social media posts before inviting you for an interview, so think twice before posting something silly or potentially embarrassing. Social media can be a good way to highlight recent accomplishments. It can also be a good way to network with professionals in your industry and search for additional job opportunities.

- **Dress accordingly.** First impressions do matter, so business attire is a safe bet. You want to project a professional, well-groomed appearance.
- **What to bring.** Bring extra copies of your resume, your list of prepared questions, a notepad or binder and a pen, along with a printed copy of your business references. If it is appropriate for the position, bring a portfolio of samples of your previous work.
- **What not to bring.** Don't bring your cellphone, or at the very least, turn it off so it does not ring or buzz in your pocket or purse.
- **While you wait,** be professional and courteous to the attendant and all staff you meet. Project confidence in the waiting room.
- **During the interview,** listen carefully and answer the interviewer's questions in a way that highlights your skills and qualifications. This is where your practice sessions can pay off. At the end of the interview, if you are interested in the job, let the interviewer know why you would be an excellent fit.
- **Do you have any questions?** This is a common question during the interview process. It's a good idea to have some questions in mind. It shows that you've done your homework and have come prepared.
- **Don't forget the thank you note!** Collect business cards from everyone you meet with and use this information to follow up. Use the after-interview thank you note to thank the interviewer for their time, express your interest in the job, and highlight how you would be the best candidate for this position.

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<sup>2</sup> <https://www.businessnewsdaily.com/2377-social-media-hiring.html>





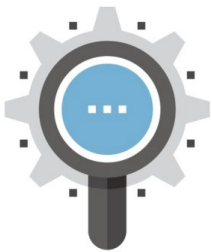
## Online Job Interviews

Many of the interview suggestions in the previous section still apply when you're prepping for an interview online. But, there are some additional things to consider:

- **Test Your Connection.** Find out what program you'll use for the interview. Make sure it's installed on your computer beforehand. Test your audio and your video to make sure you won't have any technical glitches when it's time to log in. Consider using earbuds or a headset instead of speakers to make sure you can hear the interviewer clearly.
- **Where Will You Setup?** Pick a spot that has good lighting so that your video won't be too light or too dark. You can set your laptop on a box or a stack of books so that you can frame your face within the shot and you won't have to slouch. Check the background and remove any clutter or distracting objects.
- **Remove Distractions.** Make sure you won't have any interruptions or distractions during the interview. Tell roommates or family members that you have an interview. Put a sign on the door that you'll need privacy. Make sure pets won't interrupt you too. Turn off your cell phone, and mute email notifications, or other alerts during the interview.
- **Arrive Early.** Log in to your interview session early enough to test your audio and video connection again. But, be aware that your interviewer might be connected while you're logging in. Take a few deep breaths before your interview to calm yourself and focus. Have your prepared questions handy.
- **Eye Contact is Important.** If you set up your camera so it's at eye level, look directly at the camera as you're talking. That way you'll look like you're talking directly to the interviewer instead of looking down. You can move the window of their video feed right next to your camera so it will feel more like you are talking face to face.
- **Dress Professionally.** You want to project a professional appearance during an online interview, just as you would if you were going to meet your interviewer face-to-face.



- **Practice.** Do a practice session with a friend or family member so you can practice looking and speaking directly into the camera. Ask some of your prepared questions and practice talking about your strengths and skills.



## Evaluating Potential Employers

You've taken the bull by the horns and decided that it's time to find a new job. Your future employer will spend a lot of time and effort evaluating you. And **you should spend *even more* time and effort evaluating them.** Often, learning about an employer can take a bit of detective work. You find clues, you read the tea leaves. Use the interview to ask questions, of course, but also try to get a sense of your employer's management style and motivation. Is the interviewer trying too hard to sell the company or the position to you? Does he or she seem to be speaking from a script, using slogans, and avoiding the particulars? These can be signs that they might be looking for just another warm body.

Cyber-sleuthing is a natural place to turn. Glassdoor is a website where current and past employees can post anonymous reviews. Remember,

though, as with any online review site, that the disgruntled folk are always apt to write more—and more colorfully—than the rest. You can also turn to apps like X\Twitter, Instagram, and Pinterest. For example, if current employees are posting pictures of happy hour with the gang from the office at 5 p.m., you will have a good idea of both the work hours *and* the level of comradery.

Increasingly, people are using tools like Facebook or LinkedIn to strike up conversations with existing employees of a company and asking honest, legitimate questions about the workplace culture. If it seems like nobody is talking, or, worse, they've been instructed not to talk, then that's a clear sign that something is amiss.

### Questions to keep in mind when evaluating an employer:

- Will the job allow you to build on your strengths and develop in the direction that you want?
- What is the management style at the company and, especially, in your department or division? Does management seek out input from employees?
- Will you have enough support, such as staff or time, to accomplish your projects? Or does it seem as though there is a pattern of unrealistic expectations and subsequent





jams? Some companies and individuals thrive on states of emergency and some don't.

- How soon will you be able to contribute in a way that is meaningful to *you* to the company's success? Remember that if the company makes widgets and you really want to make fidgets, then realistically you may never feel in sync with the company's mission.
- What is the turnover rate? A relatively high attrition—say, every two years—isn't necessarily a bad thing if, for example, *your* plan is to learn what you can in about that time and move on. Use your judgment.
- How is the company doing financially? Layoffs in the recent past or planned for in the near future is a bad sign. You should also get a sense, if you can, of the company's prospects five or ten years down the road.
- What is the work atmosphere and culture like? Is team building important or do individual employees have their own set of goals?
- Other things to think about are more mundane but no less important. For example, the

commute, any travel that might be expected, or the new city that you might have to move to.

- You should also learn what you can about work hours, which can vary not just from industry to industry but from company to company. Are they acceptable to you?



## Career Coaches

If you've sent your resume to twenty different companies and

haven't gotten a response yet, you may need some help polishing your resume. Or, maybe you have a big interview coming up and you want help preparing for the interview.

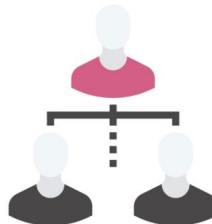
In these cases, hiring a career coach might be the right choice for you. A career coach is usually someone who has extensive experience in human resources or recruiting. They know what employers are looking and how to best showcase your experience on your resume. They can also help you get ready for that big interview. In addition, they can also be a good sounding board if you are thinking about changing your career path, and can offer helpful networking advice when you are ready to make a move.



Some even specialize in salary negotiations and promotions.

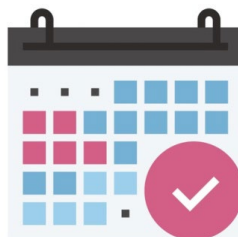
If you are considering hiring a career coach, keep the following things in mind:

- Career coaches charge anywhere from \$75 to \$150 per hour.
- Make sure that you pay your career coach based on an hourly rate. Steer clear of consultants who ask for a large upfront fee.
- When interviewing a potential career coach, ask about their professional background. Do they have expertise in your field?
- Ask for references of past clients. Contact the references they've provided and ask about their experience with the coach.
- Be on the lookout for scams. Take the time to evaluate a potential career coach to make sure they are the right fit for you and have the necessary experience to help you achieve your goals.



## Advancement: Promotions

Whether you've just started at a new company or you've been in the same job for years, you should be prepared to put some thought into a realistic assessment of your opportunities for advancement, whether through a promotion or getting a raise.



## Have a Promotion Plan

Promotions are not inevitable or a matter of course.

Never missing a day of work, being diligent in your assigned tasks, and doing nothing more are reasonably sure ways to be passed over. If you are interested in a promotion, you need to signal as much and cultivate strategies for getting promoted.

There is more flexibility in work today than in the past; it's not unusual to change jobs more frequently, to make lateral moves, or to work for a while in the "gig" economy, a growing trend where companies hire independent workers for short term jobs. The individual is, in certain ways, like an entrepreneur managing their livelihood and marketing their skills and talents in the employment



marketplace. From this vantage, developing a promotion plan is just a good business strategy for your career.

Here are some tips to build a smart promotion plan:

1. **Know what you want.** You can't strategize effectively when you don't have a goal. If you appear to be vying indiscriminately for two or three different positions, you will probably hurt your chances of getting any one of them. Ambition is one thing, but you need to have a direction and demonstrate your commitment to it.
2. **Make your boss an ally.** If you want a promotion internal to your division or department, then you definitely need your boss to support you. There are innumerable ways to signal your interest, but performance review meetings are an obvious occasion that can be leveraged. Let your boss know that you are interested in higher-level concerns beyond your day-to-day tasks, and find ways to insinuate that you are capable of tackling them smartly and effectively.
3. **Some degree of self-promotion may be necessary,** but if you demonstrate that you are able to share the glory—put your
4. **Take advantage of professional development opportunities.** These may be relevant college courses, or a system of formal continuing education classes unique to your field. Many careers in IT and other technological fields have plentiful opportunities for credentialing, training, and acquiring certificates. But don't neglect, by any means, the less formal opportunities. In Washington DC, for example, there are plenty of "brown bag" lunch events and lunch-time lecture series for people with jobs in public policy, international relations, and other fields prominently represented in the nation's capital. If you seek out these events and make a habit of going, your colleagues and others will soon be aware of your interest in exploring available opportunities for advancement.
5. **Be interested in your field, not just in your job.** Read the industry magazines, learn what

team-mates' names on the report, take a moment to speak well of your co-workers in meetings—you are demonstrating the kind of ease and magnanimity that signal you will be a good leader.



other companies are doing, and know what the trends are.

There might not be a brown bag event series in your city or region, but you could consider starting one for yourself and other professionals in your field. These occasions are also a good way to network with others in your field or industry.

6. **Act professionally at all times in the workplace.** Be dependable and responsible. Arrive on time. Don't be the one watching the clock at meetings or just before quitting time. Be a problem-solver. Be a team-player.
7. **Behave and dress in a manner appropriate to the position that you want.** The easier it is to visualize you in that position, the easier it will be for your boss to promote you or to recommend the promotion.
8. **Don't make yourself indispensable.** This might seem counterintuitive, but if you're the only one who can do your job, why would your boss ever consider moving you to another position? Learn to go out on a limb: groom someone to take your place and have that person waiting in the wings. One of the reasons that companies often hire from the outside rather than promote

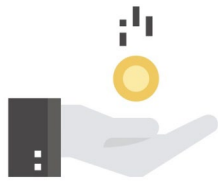
from within is that when they promote from within, the internal shuffle is disruptive. Try to make it easier for the company to promote you.

9. **Insert yourself.** The classic movie, *All About Eve*, is about Eve Harrington, a shy, sweet ingénue who just "happens" to fall into the circle of a great theater actress and then just "happens" to have memorized all of the lines to the leading role when that great actress falls ill. You don't have to be a schemer like Eve Harrington. But there might be an opportunity to insert yourself in good faith, if you pay attention. Offer to help your boss with a project that he or she is working on. You might just earn yourself a place at the table in some meetings you wouldn't otherwise have been invited to.
10. **Find new opportunities.** If your company hired you to sell office equipment like the rest of the sales division, suggest that you could develop new business for them selling office furniture. Write a proposal; ask for a meeting. In the best-case scenario, this could turn into a new position in the company or even a new division—one that you created. It's true! No matter what industry you're





working in, this kind of creative thinking and initiative will be valued.



## Asking for a Raise

Annual salary increases are the norm, and you might also get regular or occasional bonuses or profit-sharing checks. But if you want a bump in salary outside of those mechanisms, you'll have to ask for it.

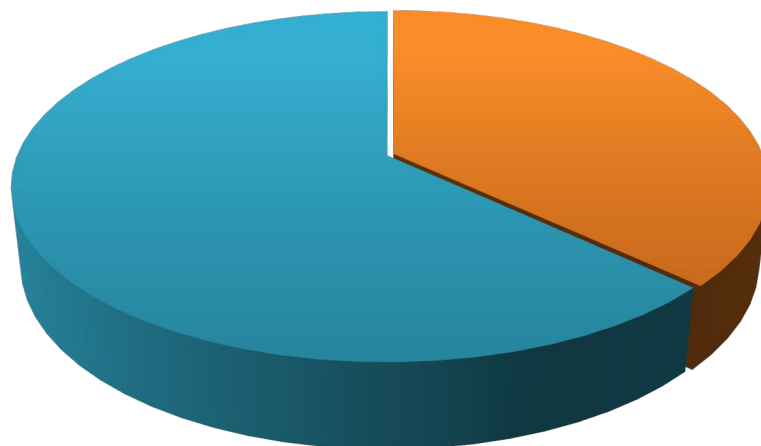
Asking for a raise can be one of the most dreaded and awkward things that you will ever do in your career. But it doesn't have to be. Go in clear-eyed, and don't let it get personal.

Think that you are, in a real sense, not just an employee but an entrepreneur tending *your* business. And just as you would never set out on a new business venture without a good business plan, you shouldn't set about asking for a raise without a serious plan, either.

First, you should understand the mechanisms for salary increases in your company. If it's standard to offer increases regularly, once a year, and tied to a performance review, then it isn't likely that you'll be successful trying to negotiate a raise outside of that mechanism. If this is the case, be sure to use those mechanisms to your advantage.

If, on the other hand, you think that there might be more fluidity with

**Percent of Employees Who Have Asked for a Raise**



■ 37% have asked for a raise ■ 63% have not asked for a raise

Source: PayScale, <https://www.payscale.com/data/how-to-ask-for-a-raise>



regards to timing, think carefully about your approach. Maybe you just wrapped up an important project – with a bow on top – and now you’re lined up for another; maybe you just accrued an honor in your field or spoke at your town’s high school or at a professional association convention. Those are ticks in the “good timing” column.

If there are any signs of belt-tightening in your company or if your boss is under the gun this quarter about the department’s budget, then obviously you should hold back. To drill down even more, you should time the conversation carefully too. Is your boss super busy or frazzled this week? Be smart.

The process can vary significantly from field to field. Be aware that in most corporate environments, unless you work directly under the owner or CEO, your boss or manager will have to get approval from his or her boss, and you’ll need to supply him or her with the ammunition needed to make the case on your behalf. Be mindful of your timing and the circumstances for this, too.



## Tips for Asking for a Raise

### 1. Research pay rates for your field.

This can be tricky; pay can vary by region, city, sub-sector, and level of experience. But you can get a very good idea with research, especially if you take all of those factors into account. Be prepared, if need be, to gently educate your employer, especially if they haven’t made very many new hires for a number of years. Remember that credentials, degrees, and other educational achievements are significant factors, too. Understand the trends affecting pay in your field and in the economy at large. When unemployment is low, for example, the employee is at an advantage.

2. **Have a figure.** A study<sup>3</sup> conducted by Leanin.org and McKinsey & Co. showed that men and women who went into negotiations for a raise without a figure were offered 32% less than those who asked for a specific amount. Most merit-based raises are 3% to 5%. This can be a good rule of thumb,

<sup>3</sup> <https://www.wsj.com/articles/finally-more-women-are-asking-for-raises-but-theres-a-catch-1507608540>



but, like everything, the amount is negotiable.

3. **Be realistic.** Maybe you just *know* that you deserve another \$4,000 a year, but if you're already paid well for people with your experience in your job and in your region or city, then you're going to have to prove your greater value with something extraordinary.
4. **Grease the wheels of your raise machine and set it in motion early.** Don't hide in the corner secretly putting together all of

your reasons for asking for more money, intending to spring it on your employer. Being both open and forthright as a matter of course will generally serve you well. Maintain an open and a collegial relationship with your boss, if you can. A lot of, if not most, interpersonal communication goes on indirectly as well as informally. Don't be pushy or unprofessional, but if you have a history of accomplishment, there might be informal opportunities to remind your

## Where to Look for Information

*Professional associations* report on salary trends and other relevant trends in the industry. Take a look in their publications, and if you don't see what you need, contact them.

*The Bureau of Labor Statistics* maintains a website called the *Occupational Outlook Handbook*. In their own words, the handbook gives "career information on duties, education and training, pay, and outlook for hundreds of occupations." You can access the handbook at <https://www.bls.gov/ooh/>.

An often-overlooked source for information is *your public library*. Reference librarians are, more often than not, helpful, curious, and itching for you to come in with a good question that they can help you research. You might know that you can turn to Glassdoor.com, Salary.com, Simplyhired.com, and other websites to find information about salaries in your field. But your local librarian can put their master's degree to work and will likely know how to find information in more obscure sources, including official records and government publications, even state and local ones.



boss well in advance of when you ask for a raise. There might be informal and indirect communications *from* your boss too that will help you know where you stand before deciding whether or not to proceed.

5. **Make a record of your achievements.** When you prepare for the conversation with your boss, you should be ready to back up your request for higher compensation with concrete reasons. Sales numbers or other quantified results are good. You might also have emails from important clients or from colleagues in your field praising your accomplishments and abilities. You should be prepared to

enumerate or show these to your boss.

6. **Show that you can look forward.** You will do yourself a big favor if you can demonstrate that you understand the company's needs looking ahead. You can prepare for this by studying general trends in your industry, of course, but even better by asking around in your company, or by simply keeping your eyes peeled. Prove to your boss that you'll be worth the extra money in the future.
7. **Consider the outcomes and be prepared for "no."** Sometimes you will be so convinced of the rightness of your raise that you forget to have an exit strategy.

## The Gender Pay Gap

According to a 2022 study by Pew Research, "The gender pay gap – the difference between the earnings of men and women – has barely closed in the United States in the past two decades. In 2022, American women typically earned 82 cents for every dollar earned by men. That was about the same as in 2002, when they earned 80 cents to the dollar. The slow pace at which the gender pay gap has narrowed this century contrasts sharply with the progress in the preceding two decades: In 1982, women earned just 65 cents to each dollar earned by men."

<https://www.pewresearch.org/social-trends/2023/03/01/the-enduring-grip-of-the-gender-pay-gap>





Your boss might come back with any number of responses, including a lower amount than you asked for or an outright no. Your boss might offer you other forms of compensation or rewards. You might think you'll cross that bridge when you get to it, but if you consider well in advance the possible outcomes, you will have a clearer sense not only of your future options but of your real needs: what might you settle for and for how long? What is non-negotiable? If you don't get the raise that you want, you can ask your boss what you can do to increase your chances of getting what you want the next time around and when that time might be—likely, at your next performance evaluation.

8. **Consider what not to do.**

Threatening to quit won't do you any favors. Even if, after careful consideration, that *is* the next step in your plan (should you not get the raise that you feel you deserve), keep it to yourself. By the same token, some experts recommend not mentioning your household expenses when you ask for a raise, such as your child's tuition or your sizeable rent increase. This shouldn't be a hard and fast rule, however. If your salary is, in fact, below the

norm in your field, then there is no good reason that your boss couldn't be gently reminded of that imbalance. But, as always, use your best judgment.



## Evaluating Compensation Packages

It's easy to think of compensation only in terms of your salary, but if you're considering a job offer or a promotion, it's important to look closely at the total package.

Similarly, if you ask for a raise, your boss might come back to you with a counter-offer involving perks or benefits. It might be hard to say what an office with a window is worth; on the other hand, a formal benefits package (retirement, healthcare, etc.) can add up to as much as thirty percent of your salary.

Also, many lifestyle factors and perks *can* be translated into dollars. Is the company dress code casual or will it be business suits all the way? Is lunch regularly catered, like at some information technology startups? These factors mean money.

Make an analysis of the benefits and perks when comparing job offers, and you might be surprised.



The most representative and financially significant components of your benefits package are probably your retirement plan and your health insurance plan. You'll find more information about both of those benefits in the next section.

Your benefits also include elements such as holiday and vacation pay and any overtime arrangements. Other common benefits are bonuses, day-care services, tuition reimbursement, and so on.

Here's a list of benefits to consider when you are evaluating the compensation package of a new position:

- Base Salary or Hourly Wage
- Bonuses, Incentives & Commission
- Paid Vacation Time, including time required to work before vacation time is available to use
- Paid Sick Time
- Paid Holidays
- Is Overtime Available?
- Health Insurance Availability & Cost, including deductibles and copays
- Time Required to Join Health Insurance
- Dental Insurance Availability & Cost
- Vision Benefits Availability & Cost
- Disability Insurance Availability & Cost
- Life Insurance Availability & Cost
- Retirement Plan Availability
- If a 401(k) is available, is there a company match?
- Stock Options
- Profit Sharing
- Commute to Work
- Remote Work/Telecommuting Options
- Utilities Reimbursement for Remote Work
- Flexible Work Schedule
- Employee Discounts
- Day Care Assistance
- Relocation Reimbursement
- Student Loan Assistance
- Tuition Reimbursement/Tuition Assistance



- Professional Development & Training
- Growth Opportunities
- Maternity or Paternity Leave Benefits
- Family Leave
- Dress Code
- Company Culture
- Work/Life Balance



## Health Insurance

A March 2023  
Bureau of Labor

Statistics<sup>4</sup> report showed that 74 percent of private industry workers had access to healthcare benefits, available to them from their employer. That breaks down to 69 percent of nonunion workers and 96 percent of union workers had access to healthcare benefits.

In 2023, the average annual cost of a health insurance plan<sup>5</sup> for a single individual was \$8,435 and the cost for a family was \$23,968. Obviously, the more that is paid by your employer, the better off you will be.

When you're looking at the medical and dental coverage from your employer, ask for details if the information wasn't given to you already.

Find out what's covered and what isn't, (Vision care, Dental, etc.) what your deductible will be, and what portion you will have to pay. It is rare that your employer will pay 100% of the premium. Ask how long you have to be employed before you can join the healthcare or dental plan.

Health insurance is changing rapidly; costs to consumers have risen nearly twenty percent annually in recently years. Nevertheless, it might be helpful to know that, in 2023, the average contribution from employees was 17% of the total premium for singles and 30% when there was family coverage. That translates into \$118 per month for individual coverage and \$596 for family coverage.

4 <https://www.bls.gov/news.release/pdf/ebs2.pdf>

5 <https://www.kff.org/health-costs/report/2023-employer-health-benefits-survey/>





## Retirement Plans

A small number of companies still offer their employees **defined benefit plans**, or traditional pension packages. If this is what your employer offers, go for it. From your employer's perspective, it's the most costly style of retirement plan to maintain and the most complex to run. But, its virtues for the employee are many—primarily a fixed and predictable retirement benefit and the possibility of rapid accrual. A study by the Bureau of Labor Statistics<sup>6</sup> showed that only 15% of private industry workers had access to a defined benefit plan in 2022.

Much more common are **defined contribution plans**, like 401(k)s and Individual Retirement Accounts (IRA). When comparing benefit packages, it's important to know how much your employer will contribute to your retirement fund.

Some employers will match 100% of your 401(k) contributions up to a certain dollar amount or up to a percentage of your salary. For example, they might match 100% up to a maximum of 3% of your annual salary. That means if you contribute \$50 to your retirement plan each

week, your employer will contribute \$50 dollars too.

In 2022, the Plan Sponsor Council of America reported that, the most common matching formula was 50 cents for each dollar contributed by the employee, up to 6% of pay<sup>7</sup>.



## Bonuses

Sometimes companies will offer a sign-on bonus or pay your moving expenses.

Sign-on bonuses vary tremendously by job, when they are offered at all. Typically, however, they are a few thousand dollars, helpful for paying your first and last month's rent, paying the movers, or buying a new wardrobe if you're a recent college graduate.

Often, bonuses are awarded annually and are based on performance or a percentage of the department's revenue or sales. In some industries, a higher executive's income might be tied strongly to company or department performance and consist largely of bonuses and stock options.

<sup>6</sup> <https://www.bls.gov/opub/ted/2023/retirement-plans-for-workers-in-private-industry-and-state-and-local-government-in-2022.htm>

<sup>7</sup> <https://www.cnbc.com/2022/04/14/62percent-of-workers-view-employer-401k-match-as-key-way-to-reach-retirement.html>







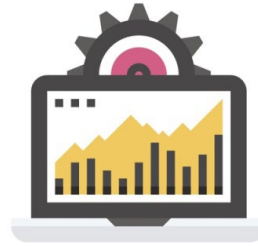
## Profit Sharing

Some companies have profit-sharing plans. A portion of the annual profits will be set

aside for distribution to employees, either in the form of stocks and bonds or as a check in the mail.

Generally, the formula for a profit-sharing plan divides the proceeds unequally: a greater percentage of a CEO's salary will come in the form of a bonus tied to the company's performance than a low-level employee's.

Profit sharing makes sense when a company has been profitable for a number of years and is expected to remain that way. Employee stock ownership plans (ESOP) are a related phenomenon. In an ESOP, employees are paid, in part, with stock in the company.



## Making Comparison Charts

When comparing job offers, make a chart and assign dollar values to the benefit components, including other factors, like the cost of your commute.

Let's look at an example. Jack has been interviewing with potential employers over the past few weeks.

He's received two job offers:

- Job Offer 1 has a salary of \$60,000 per year and is in a cool office building downtown.
- Job Offer 2 has a lower salary of \$55,000 per year, it's located in a more casual office, and it has a much shorter commute.

Job Offer 1 looks more attractive since the salary is higher. However, when you carefully compare the benefits and other calculable factors, Job Offer 1 and Job Offer 2 are nearly the same.

You can use the charts on the next page to see how you can compare job offers.

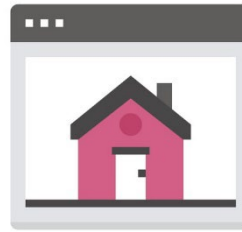


**Job Offer 1:**

Salary	\$60,000
10 Paid Days Off (two weeks vacation)	\$2,500
Commute (job is an hour away)	(\$3,200)
Dry Cleaning and Wardrobe (business attire required)	(\$2,000)
Health Insurance (your portion)	(1,550)
Retirement (matching contribution)	\$1,400
Estimated Adjusted Compensation	\$57,150

**Job Offer 2:**

Salary	\$55,000
15 Paid Days Off (three weeks vacation)	\$3,500
Commute (25 minutes away)	(\$1,500)
Dry Cleaning and Wardrobe (casual attire)	(\$500)
Health Insurance (your portion)	(\$1,100)
Retirement (matching contribution)	\$1,800
Estimated Adjusted Compensation	\$57,200

**Remote Work**

As employers and employees navigated office closures due to

COVID-19, remote work became the norm for most offices. What was supposed to be a short-term solution has turned into a long-lasting trend as some employees are still working from home with no firm date on when they will return to the office, if they will return at all.

ResumeBuilder<sup>8</sup> did a survey about Return to Work (RTO) plans for 2024 and found that:

- 9 in 10 companies with office space will have returned to office by 2024
- The majority of companies currently track or will track employees to ensure in-person attendance
- 72% say RTO has improved revenue

Employees working from home liked the increased flexibility, better work/life balance, and cost savings from not having to commute to the office or buy lunch every day.

<sup>8</sup> <https://www.resumebuilder.com/90-of-companies-will-return-to-office-by-the-end-of-2024/>



But, working from home was a challenge for some. For those that had trouble sticking to a routine, had too many distractions, or missed the comradery and brainstorming in the office, working from home was not ideal. Tech issues, WiFi problems, connection delays, and missed phone calls can cause headaches while working from home.

If you are considering a position that offers the opportunity to work from home, consider some of these factors to find out if it will suit you.

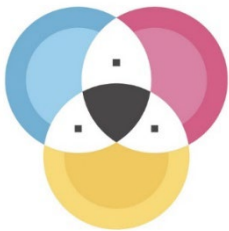
- **Self-Discipline.** Working from home successfully requires some level of self-motivation and self-direction. Are you able to stay on task to meet your goals? Are you easily distracted? If you think you will have trouble maintaining focus, remote work might be challenging for you.
- **Do you like working alone?** Working from home can mean long stretches of alone time. If you're an introvert, this might sound great. If you thrive on social interaction, brainstorming sessions, or coworker friendships, you might miss the office environment.
- **Where will you work?** Do you have the space to work from home? Do you have a spare room to set up your office, or

will you set up shop at the kitchen table? Having the right setup at home, to allow you the time and space to succeed, is important. Will you have a quiet space for phone calls and Zoom meetings? Will you have a lot of interruptions if you don't have a dedicated office space? If you are considering a work from home position, ask your employer if they reimburse for office equipment, or utilities like high-speed internet, cell phone use, or electricity.

- **Work/Life Balance.** Working from home can make it hard to maintain a healthy work/life balance. Would you feel the need to log in late at night, to see if an email came in? It's important to set boundaries so that you devote the right amount of time to work, and the right amount of time for family and personal time.
- **Be Prepared to Communicate.** Working from home means that you'll be doing a lot of communicating by email, through team platforms, or online meetings. Having the ability to communicate well, in writing, over the phone, and online, will help you stay in touch with your team and succeed in your role.



If you're not sure if working remotely is right for you, you can always ask your employer about hybrid schedules. Can you work in the office a few days a week, or a few days a month? Having the option to work remotely some days and work in the office other days, may work out best for you.



## The Gig Economy

The gig economy is a relatively new phrase to describe short-term or freelance work. Most often, individuals are hired for a single project or a "gig." These projects can be as short as an hour's worth of work, or can last for several months.

Whether driving for a ride-share company, doing freelance graphic design, or working as a short-term personal assistant, these can all be considered gig work. In many cases, freelance workers are connected to their short-term employers through a website or mobile app, making it easier than ever to find freelance work.

Some of the benefits of freelance work are setting your own schedule, working from home, and working for several employers at the same time. Many freelancers say that this kind of work schedule gives them an optimal work-life balance.

Some of the downsides to freelance work are you don't have a regular paycheck, you might have a hard time finding work, and there can be long periods of time in between jobs. You're on your own for healthcare and retirement planning, and you won't get paid for sick days or vacation time.

Freelance work can be an excellent way to supplement your regular income. Depending on your skill set, you might have a wide variety of freelance work to choose from.

These are some of the highest paying freelance gigs today<sup>9</sup>:

- Videographer
- Software Consultant
- Web Developer
- Marketing Specialist
- Business Consultant
- Financial Consultant
- Computer Programmer
- Virtual Assistant
- Human Resources Advisor
- Content Writer
- Web Designer
- Editor

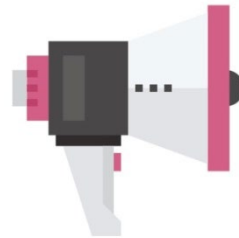
<sup>9</sup> <https://www.indeed.com/career-advice/pay-salary/highest-paying-freelance-jobs>



- Public Relations Specialist
- Executive Assistant
- Accountant
- Technical Writer
- Krop
- PeoplePerHour
- Onsite

Some of the most popular websites designed to connect freelancers and employers include:

- Upwork
- Freelancer
- Guru
- Taskrabbit
- Toptal
- FlexJobs
- Fiverr
- Designhill
- LinkedIn
- Behance
- Simply Hired
- Dribble
- SolidGigs
- LocalSolo
- Dribble
- Mediabistro



## Beware of Freelance Work Scams

If you are interested in trying out freelance work, be sure to only use legitimate freelance websites. Beware of work-from-home scams.

If a job post requires you to pay money to get materials or referrals, it is probably a scam. Beware of pyramid schemes and multi-level marketing scams that want you to sell their product to your friends and neighbors. Avoid suspicious or unusual payment methods.

And by all means, don't give out your personal data, such as bank account numbers, login details, or other personally identifying information.







## Last Words

Nobody wants to feel stuck in an entry-level job. You might not want to

keep your mid-level job forever, either. It sometimes happens that capable people are simply not interested in management positions, however. If that's you, weigh the pros and cons carefully.

Understanding your career in the context of the rest of your life will tell you whether and when to seek advancement.

Remember, too, that even if you think you've found your optimum habitat in the work ecosphere, there might be a lateral move in the cards. The right move can only ever be the right move for you and nobody else.



# Appendices

Helpful Resources .....30  
Occupational Statistics.....31



# Helpful Resources

- Bureau of Labor Statistics  
Occupational Outlook Handbook  
<https://www.bls.gov/ooh/>
- United States Department of Labor  
<https://www.dol.gov/>
- United States Department of Labor, Apprenticeship Program  
<https://www.dol.gov/apprenticeship/>
- United States Department of Labor, Career OneStop  
<https://www.careeronestop.org/>



# Occupational Statistics:

## Entry-Level Education, On-the-Job Training, Projected Growth Rate, 2022 Median Pay

OCCUPATION	ENTRY-LEVEL EDUCATION	ON-THE-JOB TRAINING	PROJECTED GROWTH RATE	2022 MEDIAN PAY
Accountants and auditors	Bachelor's degree	None	As fast as average	\$60,000 to \$79,999
Actors	Some college, no degree	Long-term on-the-job training	As fast as average	n/a
Actuaries	Bachelor's degree	Long-term on-the-job training	Much faster than average	\$80,000 or more
Acupuncturists	Master's degree	None	Faster than average	\$60,000 to \$79,999
Adhesive bonding machine operators and tenders	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$30,000 to \$39,999
Administrative law judges, adjudicators, and hearing officers	Doctoral or professional degree	Short-term on-the-job training	Little or no change	\$80,000 or more
Administrative services managers	Bachelor's degree	None	Faster than average	\$80,000 or more
Adult basic education, adult secondary education, and english as a second language instructors	Bachelor's degree	None	Decline	\$40,000 to \$59,999
Advertising and promotions managers	Bachelor's degree	None	As fast as average	\$80,000 or more
Advertising sales agents	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Aerospace engineering and operations technologists and technicians	Associate's degree	None	Faster than average	\$60,000 to \$79,999
Aerospace engineers	Bachelor's degree	None	Faster than average	\$80,000 or more
Agents and business managers of artists, performers, and athletes	Bachelor's degree	None	Faster than average	\$80,000 or more
Agricultural engineers	Bachelor's degree	None	Faster than average	\$80,000 or more
Agricultural equipment operators	No formal educational credential	Moderate-term on-the-job training	Much faster than average	\$30,000 to \$39,999
Agricultural inspectors	Bachelor's degree	Moderate-term on-the-job training	As fast as average	\$40,000 to \$59,999
Agricultural sciences teachers, postsecondary	Doctoral or professional degree	None	Faster than average	\$80,000 or more



OCCUPATION	ENTRY-LEVEL EDUCATION	ON-THE-JOB TRAINING	PROJECTED GROWTH RATE	2022 MEDIAN PAY
Agricultural technicians	Associate's degree	Moderate-term on-the-job training	As fast as average	\$40,000 to \$59,999
Agricultural workers, all other	No formal educational credential	Short-term on-the-job training	As fast as average	\$30,000 to \$39,999
Air traffic controllers	Associate's degree	Long-term on-the-job training	Little or no change	\$80,000 or more
Aircraft cargo handling supervisors	High school diploma or equivalent	None	Much faster than average	\$40,000 to \$59,999
Aircraft mechanics and service technicians	Postsecondary nondegree award	None	As fast as average	\$60,000 to \$79,999
Aircraft service attendants	High school diploma or equivalent	Short-term on-the-job training	Faster than average	\$30,000 to \$39,999
Aircraft structure, surfaces, rigging, and systems assemblers	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Airfield operations specialists	High school diploma or equivalent	Long-term on-the-job training	Faster than average	\$40,000 to \$59,999
Airline pilots, copilots, and flight engineers	Bachelor's degree	Moderate-term on-the-job training	As fast as average	\$80,000 or more
Ambulance drivers and attendants, except emergency medical technicians	High school diploma or equivalent	Moderate-term on-the-job training	Little or no change	\$30,000 to \$39,999
Amusement and recreation attendants	No formal educational credential	Short-term on-the-job training	As fast as average	Less than \$30,000
Anesthesiologists	Doctoral or professional degree	Internship/residency	As fast as average	\$80,000 or more
Animal breeders	High school diploma or equivalent	Short-term on-the-job training	As fast as average	\$40,000 to \$59,999
Animal caretakers	High school diploma or equivalent	Short-term on-the-job training	Much faster than average	Less than \$30,000
Animal control workers	High school diploma or equivalent	Moderate-term on-the-job training	As fast as average	\$30,000 to \$39,999
Animal scientists	Bachelor's degree	None	Faster than average	\$60,000 to \$79,999
Animal trainers	High school diploma or equivalent	Moderate-term on-the-job training	Much faster than average	\$30,000 to \$39,999
Anthropologists and archeologists	Master's degree	None	As fast as average	\$60,000 to \$79,999





OCCUPATION	ENTRY-LEVEL EDUCATION	ON-THE-JOB TRAINING	PROJECTED GROWTH RATE	2022 MEDIAN PAY
Anthropology and archeology teachers, postsecondary	Doctoral or professional degree	None	As fast as average	\$80,000 or more
Arbitrators, mediators, and conciliators	Bachelor's degree	Moderate-term on-the-job training	Faster than average	\$60,000 to \$79,999
Architects, except landscape and naval	Bachelor's degree	Internship/residency	Faster than average	\$80,000 or more
Architectural and civil drafters	Associate's degree	None	Little or no change	\$40,000 to \$59,999
Architectural and engineering managers	Bachelor's degree	None	As fast as average	\$80,000 or more
Architecture teachers, postsecondary	Doctoral or professional degree	None	As fast as average	\$80,000 or more
Archivists	Master's degree	None	Faster than average	\$40,000 to \$59,999
Area, ethnic, and cultural studies teachers, postsecondary	Doctoral or professional degree	None	As fast as average	\$80,000 or more
Art directors	Bachelor's degree	None	Faster than average	\$80,000 or more
Art, drama, and music teachers, postsecondary	Master's degree	None	As fast as average	\$60,000 to \$79,999
Artists and related workers, all other	No formal educational credential	Long-term on-the-job training	As fast as average	\$60,000 to \$79,999
Astronomers	Doctoral or professional degree	None	Faster than average	\$80,000 or more
Athletes and sports competitors	No formal educational credential	Long-term on-the-job training	Much faster than average	\$80,000 or more
Athletic trainers	Master's degree	None	Much faster than average	\$40,000 to \$59,999
Atmospheric and space scientists	Bachelor's degree	None	As fast as average	\$80,000 or more
Atmospheric, earth, marine, and space sciences teachers, postsecondary	Doctoral or professional degree	None	As fast as average	\$80,000 or more
Audio and video technicians	Postsecondary nondegree award	Short-term on-the-job training	Faster than average	\$40,000 to \$59,999
Audiologists	Doctoral or professional degree	None	Much faster than average	\$80,000 or more
Audiovisual equipment installers and repairers	Postsecondary nondegree award	Short-term on-the-job training	Decline	\$40,000 to \$59,999
Automotive and watercraft service attendants	No formal educational credential	Short-term on-the-job training	Little or no change	\$30,000 to \$39,999



OCCUPATION	ENTRY-LEVEL EDUCATION	ON-THE-JOB TRAINING	PROJECTED GROWTH RATE	2022 MEDIAN PAY
Automotive body and related repairers	High school diploma or equivalent	Long-term on-the-job training	Little or no change	\$40,000 to \$59,999
Automotive glass installers and repairers	High school diploma or equivalent	Moderate-term on-the-job training	As fast as average	\$40,000 to \$59,999
Automotive service technicians and mechanics	Postsecondary nondegree award	Short-term on-the-job training	As fast as average	\$40,000 to \$59,999
Avionics technicians	Associate's degree	None	As fast as average	\$60,000 to \$79,999
Baggage porters and bellhops	High school diploma or equivalent	Short-term on-the-job training	Faster than average	\$30,000 to \$39,999
Bailiffs	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Bakers	No formal educational credential	Moderate-term on-the-job training	Faster than average	\$30,000 to \$39,999
Barbers	Postsecondary nondegree award	None	Faster than average	\$30,000 to \$39,999
Bartenders	No formal educational credential	Short-term on-the-job training	As fast as average	Less than \$30,000
Bicycle repairers	High school diploma or equivalent	Moderate-term on-the-job training	As fast as average	\$30,000 to \$39,999
Bill and account collectors	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$30,000 to \$39,999
Billing and posting clerks	High school diploma or equivalent	Moderate-term on-the-job training	Little or no change	\$40,000 to \$59,999
Biochemists and biophysicists	Doctoral or professional degree	None	Faster than average	\$80,000 or more
Bioengineers and biomedical engineers	Bachelor's degree	None	Faster than average	\$80,000 or more
Biological science teachers, postsecondary	Doctoral or professional degree	None	Much faster than average	\$80,000 or more
Biological scientists, all other	Bachelor's degree	None	As fast as average	\$80,000 or more
Biological technicians	Bachelor's degree	None	Faster than average	\$40,000 to \$59,999
Boilermakers	High school diploma or equivalent	Apprenticeship	Decline	\$60,000 to \$79,999



OCCUPATION	ENTRY-LEVEL EDUCATION	ON-THE-JOB TRAINING	PROJECTED GROWTH RATE	2022 MEDIAN PAY
Bookkeeping, accounting, and auditing clerks	Some college, no degree	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Brickmasons and blockmasons	High school diploma or equivalent	Apprenticeship	Little or no change	\$40,000 to \$59,999
Bridge and lock tenders	High school diploma or equivalent	Short-term on-the-job training	Little or no change	\$40,000 to \$59,999
Broadcast announcers and radio disc jockeys	Bachelor's degree	None	Decline	\$40,000 to \$59,999
Broadcast technicians	Associate's degree	Short-term on-the-job training	Little or no change	\$60,000 to \$79,999
Brokerage clerks	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Budget analysts	Bachelor's degree	None	As fast as average	\$80,000 or more
Building cleaning workers, all other	No formal educational credential	Short-term on-the-job training	As fast as average	\$30,000 to \$39,999
Bus and truck mechanics and diesel engine specialists	High school diploma or equivalent	Long-term on-the-job training	Little or no change	\$40,000 to \$59,999
Bus drivers, school	High school diploma or equivalent	Short-term on-the-job training	Little or no change	\$40,000 to \$59,999
Bus drivers, transit and intercity	High school diploma or equivalent	Moderate-term on-the-job training	Faster than average	\$40,000 to \$59,999
Business operations specialists, all other	Bachelor's degree	None	As fast as average	\$60,000 to \$79,999
Business teachers, postsecondary	Doctoral or professional degree	None	Faster than average	\$80,000 or more
Butchers and meat cutters	No formal educational credential	Long-term on-the-job training	Little or no change	\$30,000 to \$39,999
Buyers and purchasing agents	Bachelor's degree	Moderate-term on-the-job training	Decline	\$60,000 to \$79,999
Cabinetmakers and bench carpenters	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$30,000 to \$39,999
Calibration technologists and technicians	Associate's degree	None	As fast as average	\$60,000 to \$79,999
Camera and photographic equipment repairers	High school diploma or equivalent	Long-term on-the-job training	Little or no change	\$40,000 to \$59,999
Camera operators, television, video, and film	Bachelor's degree	None	As fast as average	\$40,000 to \$59,999



OCCUPATION	ENTRY-LEVEL EDUCATION	ON-THE-JOB TRAINING	PROJECTED GROWTH RATE	2022 MEDIAN PAY
Captains, mates, and pilots of water vessels	Postsecondary nondegree award	None	As fast as average	\$80,000 or more
Cardiologists	Doctoral or professional degree	Internship/residency	As fast as average	\$80,000 or more
Cardiovascular technologists and technicians	Associate's degree	None	As fast as average	\$60,000 to \$79,999
Career/technical education teachers, middle school	Bachelor's degree	None	Little or no change	\$60,000 to \$79,999
Career/technical education teachers, postsecondary	Bachelor's degree	None	Little or no change	\$40,000 to \$59,999
Career/technical education teachers, secondary school	Bachelor's degree	None	Little or no change	\$60,000 to \$79,999
Cargo and freight agents	High school diploma or equivalent	Short-term on-the-job training	Much faster than average	\$40,000 to \$59,999
Carpenters	High school diploma or equivalent	Apprenticeship	Little or no change	\$40,000 to \$59,999
Carpet installers	No formal educational credential	Short-term on-the-job training	Decline	\$40,000 to \$59,999
Cartographers and photogrammetrists	Bachelor's degree	None	Faster than average	\$60,000 to \$79,999
Cashiers	No formal educational credential	Short-term on-the-job training	Decline	Less than \$30,000
Cement masons and concrete finishers	No formal educational credential	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Chefs and head cooks	High school diploma or equivalent	None	Faster than average	\$40,000 to \$59,999
Chemical engineers	Bachelor's degree	None	Faster than average	\$80,000 or more
Chemical equipment operators and tenders	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Chemical plant and system operators	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$80,000 or more
Chemical technicians	Associate's degree	Moderate-term on-the-job training	As fast as average	\$40,000 to \$59,999
Chemistry teachers, postsecondary	Doctoral or professional degree	None	As fast as average	\$80,000 or more
Chemists	Bachelor's degree	None	Faster than average	\$80,000 or more





OCCUPATION	ENTRY-LEVEL EDUCATION	ON-THE-JOB TRAINING	PROJECTED GROWTH RATE	2022 MEDIAN PAY
Chief executives	Bachelor's degree	None	Decline	\$80,000 or more
Child, family, and school social workers	Bachelor's degree	None	Faster than average	\$40,000 to \$59,999
Childcare workers	High school diploma or equivalent	Short-term on-the-job training	Decline	Less than \$30,000
Chiropractors	Doctoral or professional degree	None	Much faster than average	\$60,000 to \$79,999
Choreographers	High school diploma or equivalent	Long-term on-the-job training	Faster than average	\$40,000 to \$59,999
Civil engineering technologists and technicians	Associate's degree	None	Little or no change	\$40,000 to \$59,999
Civil engineers	Bachelor's degree	None	Faster than average	\$80,000 or more
Claims adjusters, examiners, and investigators	High school diploma or equivalent	Long-term on-the-job training	Decline	\$60,000 to \$79,999
Cleaners of vehicles and equipment	No formal educational credential	Short-term on-the-job training	As fast as average	\$30,000 to \$39,999
Cleaning, washing, and metal pickling equipment operators and tenders	High school diploma or equivalent	Moderate-term on-the-job training	As fast as average	\$30,000 to \$39,999
Clergy	Bachelor's degree	Moderate-term on-the-job training	Little or no change	\$40,000 to \$59,999
Clinical and counseling psychologists	Doctoral or professional degree	Internship/residency	Much faster than average	\$80,000 or more
Clinical laboratory technologists and technicians	Bachelor's degree	None	Faster than average	\$40,000 to \$59,999
Coaches and scouts	Bachelor's degree	None	Much faster than average	\$40,000 to \$59,999
Coating, painting, and spraying machine setters, operators, and tenders	High school diploma or equivalent	Moderate-term on-the-job training	Little or no change	\$40,000 to \$59,999
Coil winders, tapers, and finishers	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Coin, vending, and amusement machine servicers and repairers	High school diploma or equivalent	Short-term on-the-job training	Decline	\$30,000 to \$39,999
Commercial and industrial designers	Bachelor's degree	None	As fast as average	\$60,000 to \$79,999
Commercial divers	Postsecondary nondegree award	Moderate-term on-the-job training	Faster than average	\$60,000 to \$79,999





OCCUPATION	ENTRY-LEVEL EDUCATION	ON-THE-JOB TRAINING	PROJECTED GROWTH RATE	2022 MEDIAN PAY
Commercial pilots	Postsecondary nondegree award	Moderate-term on-the-job training	As fast as average	\$80,000 or more
Communications equipment operators, all other	High school diploma or equivalent	Short-term on-the-job training	Faster than average	\$40,000 to \$59,999
Communications teachers, postsecondary	Doctoral or professional degree	None	As fast as average	\$60,000 to \$79,999
Community and social service specialists, all other	Bachelor's degree	None	Faster than average	\$40,000 to \$59,999
Community health workers	High school diploma or equivalent	Short-term on-the-job training	Much faster than average	\$40,000 to \$59,999
Compensation and benefits managers	Bachelor's degree	None	As fast as average	\$80,000 or more
Compensation, benefits, and job analysis specialists	Bachelor's degree	None	Faster than average	\$60,000 to \$79,999
Compliance officers	Bachelor's degree	Moderate-term on-the-job training	Faster than average	\$60,000 to \$79,999
Computer and information research scientists	Master's degree	None	Much faster than average	\$80,000 or more
Computer and information systems managers	Bachelor's degree	None	Much faster than average	\$80,000 or more
Computer hardware engineers	Bachelor's degree	None	Faster than average	\$80,000 or more
Computer network architects	Bachelor's degree	None	As fast as average	\$80,000 or more
Computer network support specialists	Associate's degree	Moderate-term on-the-job training	Faster than average	\$60,000 to \$79,999
Computer numerically controlled tool operators	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Computer numerically controlled tool programmers	Postsecondary nondegree award	Moderate-term on-the-job training	Much faster than average	\$60,000 to \$79,999
Computer occupations, all other	Bachelor's degree	None	Much faster than average	\$80,000 or more
Computer programmers	Bachelor's degree	None	Decline	\$80,000 or more
Computer science teachers, postsecondary	Doctoral or professional degree	None	Faster than average	\$80,000 or more
Computer systems analysts	Bachelor's degree	None	Much faster than average	\$80,000 or more
Computer user support specialists	Some college, no degree	Moderate-term on-the-job training	Faster than average	\$40,000 to \$59,999
Computer, automated teller, and office machine repairers	Some college, no degree	Short-term on-the-job training	Decline	\$40,000 to \$59,999



OCCUPATION	ENTRY-LEVEL EDUCATION	ON-THE-JOB TRAINING	PROJECTED GROWTH RATE	2022 MEDIAN PAY
Concierges	High school diploma or equivalent	Moderate-term on-the-job training	Faster than average	\$30,000 to \$39,999
Conservation scientists	Bachelor's degree	None	As fast as average	\$60,000 to \$79,999
Construction and building inspectors	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$60,000 to \$79,999
Construction laborers	No formal educational credential	Short-term on-the-job training	As fast as average	\$40,000 to \$59,999
Construction managers	Bachelor's degree	Moderate-term on-the-job training	Faster than average	\$80,000 or more
Continuous mining machine operators	No formal educational credential	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Control and valve installers and repairers, except mechanical door	High school diploma or equivalent	Moderate-term on-the-job training	Little or no change	\$60,000 to \$79,999
Conveyor operators and tenders	No formal educational credential	Short-term on-the-job training	Faster than average	\$30,000 to \$39,999
Cooks, all other	No formal educational credential	Moderate-term on-the-job training	As fast as average	\$30,000 to \$39,999
Cooks, fast food	No formal educational credential	Short-term on-the-job training	Decline	Less than \$30,000
Cooks, institution and cafeteria	No formal educational credential	Short-term on-the-job training	As fast as average	\$30,000 to \$39,999
Cooks, private household	Postsecondary nondegree award	None	Decline	\$30,000 to \$39,999
Cooks, restaurant	No formal educational credential	Moderate-term on-the-job training	Much faster than average	\$30,000 to \$39,999
Cooks, short order	No formal educational credential	Short-term on-the-job training	Decline	\$30,000 to \$39,999
Cooling and freezing equipment operators and tenders	High school diploma or equivalent	Moderate-term on-the-job training	Faster than average	\$40,000 to \$59,999
Correctional officers and jailers	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Correspondence clerks	High school diploma or equivalent	Short-term on-the-job training	Decline	\$30,000 to \$39,999



OCCUPATION	ENTRY-LEVEL EDUCATION	ON-THE-JOB TRAINING	PROJECTED GROWTH RATE	2022 MEDIAN PAY
Cost estimators	Bachelor's degree	Moderate-term on-the-job training	Decline	\$60,000 to \$79,999
Costume attendants	High school diploma or equivalent	Short-term on-the-job training	Faster than average	\$40,000 to \$59,999
Counselors, all other	Master's degree	None	Much faster than average	\$40,000 to \$59,999
Counter and rental clerks	No formal educational credential	Short-term on-the-job training	As fast as average	\$30,000 to \$39,999
Couriers and messengers	High school diploma or equivalent	Short-term on-the-job training	As fast as average	\$30,000 to \$39,999
Court reporters and simultaneous captioners	Postsecondary nondegree award	Short-term on-the-job training	As fast as average	\$60,000 to \$79,999
Court, municipal, and license clerks	High school diploma or equivalent	Long-term on-the-job training	As fast as average	\$40,000 to \$59,999
Craft artists	No formal educational credential	Long-term on-the-job training	As fast as average	\$30,000 to \$39,999
Crane and tower operators	High school diploma or equivalent	Moderate-term on-the-job training	Little or no change	\$60,000 to \$79,999
Credit analysts	Bachelor's degree	None	Decline	\$60,000 to \$79,999
Credit authorizers, checkers, and clerks	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Credit counselors	Bachelor's degree	Moderate-term on-the-job training	Faster than average	\$40,000 to \$59,999
Crematory operators	High school diploma or equivalent	Short-term on-the-job training	As fast as average	\$40,000 to \$59,999
Criminal justice and law enforcement teachers, postsecondary	Doctoral or professional degree	None	As fast as average	\$60,000 to \$79,999
Crossing guards and flaggers	No formal educational credential	Short-term on-the-job training	As fast as average	\$30,000 to \$39,999
Crushing, grinding, and polishing machine setters, operators, and tenders	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Curators	Master's degree	None	Much faster than average	\$60,000 to \$79,999
Customer service representatives	High school diploma or equivalent	Short-term on-the-job training	Decline	\$30,000 to \$39,999



OCCUPATION	ENTRY-LEVEL EDUCATION	ON-THE-JOB TRAINING	PROJECTED GROWTH RATE	2022 MEDIAN PAY
Cutters and trimmers, hand	No formal educational credential	Short-term on-the-job training	Decline	\$30,000 to \$39,999
Cutting and slicing machine setters, operators, and tenders	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$30,000 to \$39,999
Cutting, punching, and press machine setters, operators, and tenders, metal and plastic	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$30,000 to \$39,999
Dancers	No formal educational credential	Long-term on-the-job training	Faster than average	n/a
Data entry keyers	High school diploma or equivalent	Short-term on-the-job training	Decline	\$30,000 to \$39,999
Data scientists	Bachelor's degree	None	Much faster than average	\$80,000 or more
Database administrators	Bachelor's degree	None	Faster than average	\$80,000 or more
Database architects	Bachelor's degree	None	Much faster than average	\$80,000 or more
Demonstrators and product promoters	No formal educational credential	Short-term on-the-job training	As fast as average	\$30,000 to \$39,999
Dental assistants	Postsecondary nondegree award	None	Faster than average	\$40,000 to \$59,999
Dental hygienists	Associate's degree	None	Faster than average	\$80,000 or more
Dental laboratory technicians	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Dentists, all other specialists	Doctoral or professional degree	Internship/residency	As fast as average	\$80,000 or more
Dentists, general	Doctoral or professional degree	None	As fast as average	\$80,000 or more
Dermatologists	Doctoral or professional degree	Internship/residency	As fast as average	\$80,000 or more
Derrick operators, oil and gas	No formal educational credential	Short-term on-the-job training	Little or no change	\$40,000 to \$59,999
Designers, all other	Bachelor's degree	None	As fast as average	\$60,000 to \$79,999
Desktop publishers	Associate's degree	Short-term on-the-job training	Decline	\$40,000 to \$59,999





OCCUPATION	ENTRY-LEVEL EDUCATION	ON-THE-JOB TRAINING	PROJECTED GROWTH RATE	2022 MEDIAN PAY
Detectives and criminal investigators	High school diploma or equivalent	Moderate-term on-the-job training	Little or no change	\$80,000 or more
Diagnostic medical sonographers	Associate's degree	None	Much faster than average	\$80,000 or more
Dietetic technicians	Associate's degree	None	As fast as average	\$30,000 to \$39,999
Dietitians and nutritionists	Bachelor's degree	Internship/residency	Faster than average	\$60,000 to \$79,999
Dining room and cafeteria attendants and bartender helpers	No formal educational credential	Short-term on-the-job training	As fast as average	Less than \$30,000
Directors, religious activities and education	Bachelor's degree	None	Little or no change	\$40,000 to \$59,999
Disc jockeys, except radio	High school diploma or equivalent	Short-term on-the-job training	As fast as average	n/a
Dishwashers	No formal educational credential	Short-term on-the-job training	Decline	Less than \$30,000
Dispatchers, except police, fire, and ambulance	High school diploma or equivalent	Moderate-term on-the-job training	Little or no change	\$40,000 to \$59,999
Door-to-door sales workers, news and street vendors, and related workers	No formal educational credential	Short-term on-the-job training	Decline	\$30,000 to \$39,999
Drafters, all other	Associate's degree	None	Decline	\$40,000 to \$59,999
Dredge operators	High school diploma or equivalent	Moderate-term on-the-job training	Little or no change	\$40,000 to \$59,999
Drilling and boring machine tool setters, operators, and tenders, metal and plastic	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Driver/sales workers	High school diploma or equivalent	Short-term on-the-job training	Faster than average	\$30,000 to \$39,999
Drywall and ceiling tile installers	No formal educational credential	Moderate-term on-the-job training	As fast as average	\$40,000 to \$59,999
Earth drillers, except oil and gas	High school diploma or equivalent	Long-term on-the-job training	As fast as average	\$40,000 to \$59,999
Economics teachers, postsecondary	Doctoral or professional degree	None	As fast as average	\$80,000 or more
Economists	Master's degree	None	Faster than average	\$80,000 or more





OCCUPATION	ENTRY-LEVEL EDUCATION	ON-THE-JOB TRAINING	PROJECTED GROWTH RATE	2022 MEDIAN PAY
Editors	Bachelor's degree	None	Decline	\$60,000 to \$79,999
Education administrators, all other	Bachelor's degree	None	As fast as average	\$80,000 or more
Education administrators, kindergarten through secondary	Master's degree	None	Little or no change	\$80,000 or more
Education administrators, postsecondary	Master's degree	None	As fast as average	\$80,000 or more
Education and childcare administrators, preschool and daycare	Bachelor's degree	None	Decline	\$40,000 to \$59,999
Education teachers, postsecondary	Doctoral or professional degree	None	As fast as average	\$60,000 to \$79,999
Educational instruction and library workers, all other	Bachelor's degree	None	As fast as average	\$40,000 to \$59,999
Educational, guidance, and career counselors and advisors	Master's degree	None	Faster than average	\$60,000 to \$79,999
Electric motor, power tool, and related repairers	High school diploma or equivalent	Moderate-term on-the-job training	As fast as average	\$40,000 to \$59,999
Electrical and electronic engineering technologists and technicians	Associate's degree	None	Little or no change	\$60,000 to \$79,999
Electrical and electronics drafters	Associate's degree	None	Little or no change	\$60,000 to \$79,999
Electrical and electronics installers and repairers, transportation equipment	Postsecondary nondegree award	Long-term on-the-job training	Faster than average	\$60,000 to \$79,999
Electrical and electronics repairers, commercial and industrial equipment	Postsecondary nondegree award	Long-term on-the-job training	Little or no change	\$60,000 to \$79,999
Electrical and electronics repairers, powerhouse, substation, and relay	Postsecondary nondegree award	Moderate-term on-the-job training	Decline	\$80,000 or more
Electrical engineers	Bachelor's degree	None	As fast as average	\$80,000 or more
Electrical power-line installers and repairers	High school diploma or equivalent	Long-term on-the-job training	As fast as average	\$80,000 or more
Electrical, electronic, and electromechanical assemblers, except coil winders, tapers, and finishers	High school diploma or equivalent	Moderate-term on-the-job training	As fast as average	\$30,000 to \$39,999
Electricians	High school diploma or equivalent	Apprenticeship	Faster than average	\$60,000 to \$79,999
Electro-mechanical and mechatronics technologists and technicians	Associate's degree	None	Decline	\$60,000 to \$79,999
Electronic equipment installers and repairers, motor vehicles	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999



OCCUPATION	ENTRY-LEVEL EDUCATION	ON-THE-JOB TRAINING	PROJECTED GROWTH RATE	2022 MEDIAN PAY
Electronics engineers, except computer	Bachelor's degree	None	Faster than average	\$80,000 or more
Elementary school teachers, except special education	Bachelor's degree	None	Little or no change	\$60,000 to \$79,999
Elevator and escalator installers and repairers	High school diploma or equivalent	Apprenticeship	Little or no change	\$80,000 or more
Eligibility interviewers, government programs	High school diploma or equivalent	Moderate-term on-the-job training	As fast as average	\$40,000 to \$59,999
Embalmers	Associate's degree	Long-term on-the-job training	Little or no change	\$40,000 to \$59,999
Emergency management directors	Bachelor's degree	None	As fast as average	\$60,000 to \$79,999
Emergency medical technicians	Postsecondary nondegree award	None	Faster than average	\$30,000 to \$39,999
Emergency medicine physicians	Doctoral or professional degree	Internship/residency	As fast as average	\$80,000 or more
Engine and other machine assemblers	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Engineering teachers, postsecondary	Doctoral or professional degree	None	Much faster than average	\$80,000 or more
Engineering technologists and technicians, except drafters, all other	Associate's degree	None	As fast as average	\$60,000 to \$79,999
Engineers, all other	Bachelor's degree	None	As fast as average	\$80,000 or more
English language and literature teachers, postsecondary	Doctoral or professional degree	None	Little or no change	\$60,000 to \$79,999
Entertainers and performers, sports and related workers, all other	No formal educational credential	Short-term on-the-job training	Faster than average	n/a
Entertainment and recreation managers, except gambling	Bachelor's degree	None	Faster than average	\$60,000 to \$79,999
Entertainment attendants and related workers, all other	High school diploma or equivalent	Short-term on-the-job training	Faster than average	Less than \$30,000
Environmental engineering technologists and technicians	Associate's degree	None	Little or no change	\$40,000 to \$59,999
Environmental engineers	Bachelor's degree	None	Faster than average	\$80,000 or more
Environmental science and protection technicians, including health	Associate's degree	None	Faster than average	\$40,000 to \$59,999
Environmental science teachers, postsecondary	Doctoral or professional degree	None	As fast as average	\$80,000 or more



OCCUPATION	ENTRY-LEVEL EDUCATION	ON-THE-JOB TRAINING	PROJECTED GROWTH RATE	2022 MEDIAN PAY
Environmental scientists and specialists, including health	Bachelor's degree	None	Faster than average	\$60,000 to \$79,999
Epidemiologists	Master's degree	None	Much faster than average	\$60,000 to \$79,999
Etchers and engravers	High school diploma or equivalent	Moderate-term on-the-job training	Little or no change	\$30,000 to \$39,999
Excavating and loading machine and dragline operators, surface mining	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Executive secretaries and executive administrative assistants	High school diploma or equivalent	None	Decline	\$60,000 to \$79,999
Exercise physiologists	Bachelor's degree	None	Much faster than average	\$40,000 to \$59,999
Exercise trainers and group fitness instructors	High school diploma or equivalent	Short-term on-the-job training	Much faster than average	\$40,000 to \$59,999
Explosives workers, ordnance handling experts, and blasters	High school diploma or equivalent	Long-term on-the-job training	Little or no change	\$40,000 to \$59,999
Extraction workers, all other	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Extruding and drawing machine setters, operators, and tenders, metal and plastic	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$30,000 to \$39,999
Extruding and forming machine setters, operators, and tenders, synthetic and glass fibers	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$30,000 to \$39,999
Extruding, forming, pressing, and compacting machine setters, operators, and tenders	High school diploma or equivalent	Moderate-term on-the-job training	Little or no change	\$30,000 to \$39,999
Fabric and apparel patternmakers	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$60,000 to \$79,999
Facilities managers	Bachelor's degree	None	Faster than average	\$80,000 or more
Fallers	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Family and consumer sciences teachers, postsecondary	Doctoral or professional degree	None	As fast as average	\$60,000 to \$79,999
Family medicine physicians	Doctoral or professional degree	Internship/residency	As fast as average	\$80,000 or more
Farm and home management educators	Master's degree	None	Decline	\$40,000 to \$59,999



OCCUPATION	ENTRY-LEVEL EDUCATION	ON-THE-JOB TRAINING	PROJECTED GROWTH RATE	2022 MEDIAN PAY
Farm equipment mechanics and service technicians	High school diploma or equivalent	Long-term on-the-job training	Faster than average	\$40,000 to \$59,999
Farm labor contractors	No formal educational credential	Short-term on-the-job training	Faster than average	\$40,000 to \$59,999
Farmers, ranchers, and other agricultural managers	High school diploma or equivalent	None	Decline	\$60,000 to \$79,999
Farmworkers and laborers, crop, nursery, and greenhouse	No formal educational credential	Short-term on-the-job training	Decline	\$30,000 to \$39,999
Farmworkers, farm, ranch, and aquacultural animals	No formal educational credential	Short-term on-the-job training	Decline	\$30,000 to \$39,999
Fashion designers	Bachelor's degree	None	As fast as average	\$60,000 to \$79,999
Fast food and counter workers	No formal educational credential	Short-term on-the-job training	Little or no change	Less than \$30,000
Fence erectors	No formal educational credential	Moderate-term on-the-job training	Little or no change	\$30,000 to \$39,999
Fiberglass laminators and fabricators	High school diploma or equivalent	Moderate-term on-the-job training	Little or no change	\$30,000 to \$39,999
File clerks	High school diploma or equivalent	Short-term on-the-job training	Decline	\$30,000 to \$39,999
Film and video editors	Bachelor's degree	None	Much faster than average	\$60,000 to \$79,999
Financial and investment analysts	Bachelor's degree	None	Faster than average	\$80,000 or more
Financial clerks, all other	High school diploma or equivalent	Short-term on-the-job training	Little or no change	\$40,000 to \$59,999
Financial examiners	Bachelor's degree	Long-term on-the-job training	Much faster than average	\$80,000 or more
Financial managers	Bachelor's degree	None	Much faster than average	\$80,000 or more
Financial risk specialists	Bachelor's degree	None	Faster than average	\$80,000 or more
Financial specialists, all other	Bachelor's degree	None	Faster than average	\$60,000 to \$79,999
Fine artists, including painters, sculptors, and illustrators	Bachelor's degree	Long-term on-the-job training	Faster than average	\$40,000 to \$59,999
Fire inspectors and investigators	Postsecondary nondegree award	Moderate-term on-the-job training	As fast as average	\$60,000 to \$79,999





OCCUPATION	ENTRY-LEVEL EDUCATION	ON-THE-JOB TRAINING	PROJECTED GROWTH RATE	2022 MEDIAN PAY
Firefighters	Postsecondary nondegree award	Long-term on-the-job training	As fast as average	\$40,000 to \$59,999
First-line supervisors of construction trades and extraction workers	High school diploma or equivalent	None	As fast as average	\$60,000 to \$79,999
First-line supervisors of correctional officers	High school diploma or equivalent	None	Decline	\$60,000 to \$79,999
First-line supervisors of entertainment and recreation workers, except gambling services	High school diploma or equivalent	None	Faster than average	\$40,000 to \$59,999
First-line supervisors of farming, fishing, and forestry workers	High school diploma or equivalent	None	As fast as average	\$40,000 to \$59,999
First-line supervisors of firefighting and prevention workers	Postsecondary nondegree award	Moderate-term on-the-job training	As fast as average	\$80,000 or more
First-line supervisors of food preparation and serving workers	High school diploma or equivalent	None	Faster than average	\$30,000 to \$39,999
First-line supervisors of gambling services workers	High school diploma or equivalent	None	As fast as average	\$40,000 to \$59,999
First-line supervisors of housekeeping and janitorial workers	High school diploma or equivalent	None	As fast as average	\$40,000 to \$59,999
First-line supervisors of landscaping, lawn service, and groundskeeping workers	High school diploma or equivalent	None	As fast as average	\$40,000 to \$59,999
First-line supervisors of mechanics, installers, and repairers	High school diploma or equivalent	None	As fast as average	\$60,000 to \$79,999
First-line supervisors of non-retail sales workers	High school diploma or equivalent	None	Decline	\$80,000 or more
First-line supervisors of office and administrative support workers	High school diploma or equivalent	None	Decline	\$60,000 to \$79,999
First-line supervisors of personal service workers	High school diploma or equivalent	None	Faster than average	\$40,000 to \$59,999
First-line supervisors of police and detectives	High school diploma or equivalent	Moderate-term on-the-job training	As fast as average	\$80,000 or more
First-line supervisors of production and operating workers	High school diploma or equivalent	None	Little or no change	\$60,000 to \$79,999
First-line supervisors of protective service workers, all other	High school diploma or equivalent	None	As fast as average	\$60,000 to \$79,999





OCCUPATION	ENTRY-LEVEL EDUCATION	ON-THE-JOB TRAINING	PROJECTED GROWTH RATE	2022 MEDIAN PAY
First-line supervisors of retail sales workers	High school diploma or equivalent	None	Decline	\$40,000 to \$59,999
First-line supervisors of security workers	High school diploma or equivalent	None	Decline	\$40,000 to \$59,999
First-line supervisors of transportation and material moving workers, except aircraft cargo handling supervisors	High school diploma or equivalent	None	Faster than average	\$40,000 to \$59,999
Fish and game wardens	Bachelor's degree	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Fishing and hunting workers	No formal educational credential	Moderate-term on-the-job training	Little or no change	n/a
Flight attendants	High school diploma or equivalent	Moderate-term on-the-job training	Much faster than average	\$60,000 to \$79,999
Floor layers, except carpet, wood, and hard tiles	No formal educational credential	Moderate-term on-the-job training	Faster than average	\$40,000 to \$59,999
Floor sanders and finishers	No formal educational credential	Moderate-term on-the-job training	Little or no change	\$40,000 to \$59,999
Floral designers	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$30,000 to \$39,999
Food and tobacco roasting, baking, and drying machine operators and tenders	No formal educational credential	Moderate-term on-the-job training	As fast as average	\$30,000 to \$39,999
Food batchmakers	High school diploma or equivalent	Moderate-term on-the-job training	Faster than average	\$30,000 to \$39,999
Food cooking machine operators and tenders	High school diploma or equivalent	Moderate-term on-the-job training	As fast as average	\$30,000 to \$39,999
Food preparation and serving related workers, all other	No formal educational credential	Short-term on-the-job training	As fast as average	\$30,000 to \$39,999
Food preparation workers	No formal educational credential	Short-term on-the-job training	Decline	Less than \$30,000
Food processing workers, all other	No formal educational credential	Moderate-term on-the-job training	As fast as average	\$30,000 to \$39,999
Food science technicians	Associate's degree	Moderate-term on-the-job training	Faster than average	\$40,000 to \$59,999
Food scientists and technologists	Bachelor's degree	None	Faster than average	\$60,000 to \$79,999



OCCUPATION	ENTRY-LEVEL EDUCATION	ON-THE-JOB TRAINING	PROJECTED GROWTH RATE	2022 MEDIAN PAY
Food servers, nonrestaurant	No formal educational credential	Short-term on-the-job training	As fast as average	\$30,000 to \$39,999
Food service managers	High school diploma or equivalent	Short-term on-the-job training	Little or no change	\$60,000 to \$79,999
Foreign language and literature teachers, postsecondary	Doctoral or professional degree	None	Little or no change	\$60,000 to \$79,999
Forensic science technicians	Bachelor's degree	Moderate-term on-the-job training	Much faster than average	\$60,000 to \$79,999
Forest and conservation technicians	Associate's degree	None	Little or no change	\$40,000 to \$59,999
Forest and conservation workers	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$30,000 to \$39,999
Forest fire inspectors and prevention specialists	High school diploma or equivalent	Moderate-term on-the-job training	Much faster than average	\$40,000 to \$59,999
Foresters	Bachelor's degree	None	As fast as average	\$60,000 to \$79,999
Forestry and conservation science teachers, postsecondary	Doctoral or professional degree	None	Faster than average	\$80,000 or more
Forging machine setters, operators, and tenders, metal and plastic	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Foundry mold and coremakers	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Fundraisers	Bachelor's degree	None	Faster than average	\$60,000 to \$79,999
Fundraising managers	Bachelor's degree	None	Faster than average	\$80,000 or more
Funeral attendants	High school diploma or equivalent	Short-term on-the-job training	As fast as average	\$30,000 to \$39,999
Funeral home managers	Associate's degree	None	As fast as average	\$60,000 to \$79,999
Furnace, kiln, oven, drier, and kettle operators and tenders	High school diploma or equivalent	Moderate-term on-the-job training	Little or no change	\$40,000 to \$59,999
Furniture finishers	High school diploma or equivalent	Short-term on-the-job training	Little or no change	\$30,000 to \$39,999
Gambling and sports book writers and runners	High school diploma or equivalent	Short-term on-the-job training	Decline	Less than \$30,000



OCCUPATION	ENTRY-LEVEL EDUCATION	ON-THE-JOB TRAINING	PROJECTED GROWTH RATE	2022 MEDIAN PAY
Gambling cage workers	High school diploma or equivalent	Short-term on-the-job training	Decline	\$30,000 to \$39,999
Gambling change persons and booth cashiers	No formal educational credential	Short-term on-the-job training	Decline	\$30,000 to \$39,999
Gambling dealers	High school diploma or equivalent	Short-term on-the-job training	Little or no change	Less than \$30,000
Gambling managers	High school diploma or equivalent	None	As fast as average	\$80,000 or more
Gambling service workers, all other	High school diploma or equivalent	Short-term on-the-job training	Little or no change	\$30,000 to \$39,999
Gambling surveillance officers and gambling investigators	High school diploma or equivalent	Moderate-term on-the-job training	Little or no change	\$30,000 to \$39,999
Gas compressor and gas pumping station operators	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Gas plant operators	High school diploma or equivalent	Long-term on-the-job training	Decline	\$60,000 to \$79,999
General and operations managers	Bachelor's degree	None	As fast as average	\$80,000 or more
General internal medicine physicians	Doctoral or professional degree	Internship/residency	As fast as average	\$80,000 or more
Genetic counselors	Master's degree	None	Much faster than average	\$80,000 or more
Geographers	Bachelor's degree	None	Little or no change	\$80,000 or more
Geography teachers, postsecondary	Doctoral or professional degree	None	As fast as average	\$80,000 or more
Geological technicians, except hydrologic technicians	Associate's degree	Moderate-term on-the-job training	As fast as average	\$40,000 to \$59,999
Geoscientists, except hydrologists and geographers	Bachelor's degree	None	Faster than average	\$80,000 or more
Glaziers	High school diploma or equivalent	Apprenticeship	As fast as average	\$40,000 to \$59,999
Graders and sorters, agricultural products	No formal educational credential	Short-term on-the-job training	Decline	\$30,000 to \$39,999
Graphic designers	Bachelor's degree	None	As fast as average	\$40,000 to \$59,999



OCCUPATION	ENTRY-LEVEL EDUCATION	ON-THE-JOB TRAINING	PROJECTED GROWTH RATE	2022 MEDIAN PAY
Grinding and polishing workers, hand	No formal educational credential	Moderate-term on-the-job training	Decline	\$30,000 to \$39,999
Grinding, lapping, polishing, and buffing machine tool setters, operators, and tenders, metal and plastic	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$30,000 to \$39,999
Grounds maintenance workers, all other	No formal educational credential	Short-term on-the-job training	As fast as average	\$30,000 to \$39,999
Hairdressers, hairstylists, and cosmetologists	Postsecondary nondegree award	None	Faster than average	\$30,000 to \$39,999
Hazardous materials removal workers	High school diploma or equivalent	Moderate-term on-the-job training	Little or no change	\$40,000 to \$59,999
Health and safety engineers, except mining safety engineers and inspectors	Bachelor's degree	None	As fast as average	\$80,000 or more
Health education specialists	Bachelor's degree	None	Faster than average	\$40,000 to \$59,999
Health information technologists and medical registrars	Associate's degree	None	Much faster than average	\$40,000 to \$59,999
Health specialties teachers, postsecondary	Doctoral or professional degree	None	Much faster than average	\$80,000 or more
Health technologists and technicians, all other	Postsecondary nondegree award	None	Faster than average	\$40,000 to \$59,999
Healthcare diagnosing or treating practitioners, all other	Master's degree	None	As fast as average	\$80,000 or more
Healthcare practitioners and technical workers, all other	Postsecondary nondegree award	None	Faster than average	\$60,000 to \$79,999
Healthcare social workers	Master's degree	Internship/residency	Much faster than average	\$60,000 to \$79,999
Healthcare support workers, all other	High school diploma or equivalent	None	Faster than average	\$40,000 to \$59,999
Hearing aid specialists	High school diploma or equivalent	Moderate-term on-the-job training	Much faster than average	\$40,000 to \$59,999
Heat treating equipment setters, operators, and tenders, metal and plastic	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Heating, air conditioning, and refrigeration mechanics and installers	Postsecondary nondegree award	Long-term on-the-job training	Faster than average	\$40,000 to \$59,999
Heavy and tractor-trailer truck drivers	Postsecondary nondegree award	Short-term on-the-job training	As fast as average	\$40,000 to \$59,999
Helpers, construction trades, all other	No formal educational credential	Short-term on-the-job training	As fast as average	\$30,000 to \$39,999





OCCUPATION	ENTRY-LEVEL EDUCATION	ON-THE-JOB TRAINING	PROJECTED GROWTH RATE	2022 MEDIAN PAY
Helpers--brickmasons, blockmasons, stonemasons, and tile and marble setters	No formal educational credential	Short-term on-the-job training	Decline	\$30,000 to \$39,999
Helpers--carpenters	No formal educational credential	Short-term on-the-job training	Decline	\$30,000 to \$39,999
Helpers--electricians	High school diploma or equivalent	Short-term on-the-job training	Decline	\$30,000 to \$39,999
Helpers--extraction workers	High school diploma or equivalent	Moderate-term on-the-job training	Little or no change	\$40,000 to \$59,999
Helpers--installation, maintenance, and repair workers	High school diploma or equivalent	Short-term on-the-job training	As fast as average	\$30,000 to \$39,999
Helpers--painters, paperhangers, plasterers, and stucco masons	No formal educational credential	Short-term on-the-job training	As fast as average	\$30,000 to \$39,999
Helpers--pipelayers, plumbers, pipefitters, and steamfitters	High school diploma or equivalent	Short-term on-the-job training	As fast as average	\$30,000 to \$39,999
Helpers--production workers	High school diploma or equivalent	Short-term on-the-job training	Decline	\$30,000 to \$39,999
Helpers--roofers	No formal educational credential	Short-term on-the-job training	As fast as average	\$30,000 to \$39,999
Highway maintenance workers	High school diploma or equivalent	Moderate-term on-the-job training	Faster than average	\$40,000 to \$59,999
Historians	Master's degree	None	As fast as average	\$60,000 to \$79,999
History teachers, postsecondary	Doctoral or professional degree	None	Little or no change	\$60,000 to \$79,999
Hoist and winch operators	No formal educational credential	Short-term on-the-job training	Decline	\$40,000 to \$59,999
Home appliance repairers	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Home health and personal care aides	High school diploma or equivalent	Short-term on-the-job training	Much faster than average	\$30,000 to \$39,999
Hosts and hostesses, restaurant, lounge, and coffee shop	No formal educational credential	Short-term on-the-job training	Little or no change	Less than \$30,000





OCCUPATION	ENTRY-LEVEL EDUCATION	ON-THE-JOB TRAINING	PROJECTED GROWTH RATE	2022 MEDIAN PAY
Hotel, motel, and resort desk clerks	High school diploma or equivalent	Short-term on-the-job training	Decline	Less than \$30,000
Human resources assistants, except payroll and timekeeping	Associate's degree	None	Decline	\$40,000 to \$59,999
Human resources managers	Bachelor's degree	None	Faster than average	\$80,000 or more
Human resources specialists	Bachelor's degree	None	Faster than average	\$60,000 to \$79,999
Hydrologic technicians	Associate's degree	Moderate-term on-the-job training	Little or no change	\$40,000 to \$59,999
Hydrologists	Bachelor's degree	None	Little or no change	\$80,000 or more
Industrial engineering technologists and technicians	Associate's degree	None	As fast as average	\$60,000 to \$79,999
Industrial engineers	Bachelor's degree	None	Much faster than average	\$80,000 or more
Industrial machinery mechanics	High school diploma or equivalent	Long-term on-the-job training	Much faster than average	\$40,000 to \$59,999
Industrial production managers	Bachelor's degree	None	As fast as average	\$80,000 or more
Industrial truck and tractor operators	No formal educational credential	Short-term on-the-job training	As fast as average	\$40,000 to \$59,999
Industrial-organizational psychologists	Master's degree	Internship/residency	Faster than average	\$80,000 or more
Information and record clerks, all other	High school diploma or equivalent	Short-term on-the-job training	As fast as average	\$40,000 to \$59,999
Information security analysts	Bachelor's degree	None	Much faster than average	\$80,000 or more
Inspectors, testers, sorters, samplers, and weighers	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Installation, maintenance, and repair workers, all other	High school diploma or equivalent	Moderate-term on-the-job training	As fast as average	\$40,000 to \$59,999
Instructional coordinators	Master's degree	None	As fast as average	\$60,000 to \$79,999
Insulation workers, floor, ceiling, and wall	No formal educational credential	Short-term on-the-job training	As fast as average	\$40,000 to \$59,999
Insulation workers, mechanical	High school diploma or equivalent	Apprenticeship	As fast as average	\$40,000 to \$59,999
Insurance appraisers, auto damage	Postsecondary nondegree award	Moderate-term on-the-job training	Decline	\$60,000 to \$79,999



OCCUPATION	ENTRY-LEVEL EDUCATION	ON-THE-JOB TRAINING	PROJECTED GROWTH RATE	2022 MEDIAN PAY
Insurance claims and policy processing clerks	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Insurance sales agents	High school diploma or equivalent	Moderate-term on-the-job training	Faster than average	\$40,000 to \$59,999
Insurance underwriters	Bachelor's degree	Moderate-term on-the-job training	Decline	\$60,000 to \$79,999
Interior designers	Bachelor's degree	None	As fast as average	\$60,000 to \$79,999
Interpreters and translators	Bachelor's degree	None	As fast as average	\$40,000 to \$59,999
Interviewers, except eligibility and loan	High school diploma or equivalent	Short-term on-the-job training	Decline	\$30,000 to \$39,999
Janitors and cleaners, except maids and housekeeping cleaners	No formal educational credential	Short-term on-the-job training	Little or no change	\$30,000 to \$39,999
Jewelers and precious stone and metal workers	High school diploma or equivalent	Long-term on-the-job training	Decline	\$40,000 to \$59,999
Judges, magistrate judges, and magistrates	Doctoral or professional degree	Short-term on-the-job training	As fast as average	\$80,000 or more
Judicial law clerks	Doctoral or professional degree	None	As fast as average	\$40,000 to \$59,999
Kindergarten teachers, except special education	Bachelor's degree	None	Little or no change	\$60,000 to \$79,999
Labor relations specialists	Bachelor's degree	None	Little or no change	\$80,000 or more
Laborers and freight, stock, and material movers, hand	No formal educational credential	Short-term on-the-job training	Faster than average	\$30,000 to \$39,999
Landscape architects	Bachelor's degree	Internship/residency	Little or no change	\$60,000 to \$79,999
Landscaping and groundskeeping workers	No formal educational credential	Short-term on-the-job training	As fast as average	\$30,000 to \$39,999
Lathe and turning machine tool setters, operators, and tenders, metal and plastic	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Laundry and dry-cleaning workers	No formal educational credential	Short-term on-the-job training	Little or no change	Less than \$30,000
Law teachers, postsecondary	Doctoral or professional degree	None	As fast as average	\$80,000 or more



OCCUPATION	ENTRY-LEVEL EDUCATION	ON-THE-JOB TRAINING	PROJECTED GROWTH RATE	2022 MEDIAN PAY
Lawyers	Doctoral or professional degree	None	Faster than average	\$80,000 or more
Layout workers, metal and plastic	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Legal secretaries and administrative assistants	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Legal support workers, all other	Associate's degree	None	Little or no change	\$60,000 to \$79,999
Legislators	Bachelor's degree	None	As fast as average	\$40,000 to \$59,999
Librarians and media collections specialists	Master's degree	None	As fast as average	\$60,000 to \$79,999
Library assistants, clerical	High school diploma or equivalent	Short-term on-the-job training	Decline	\$30,000 to \$39,999
Library science teachers, postsecondary	Doctoral or professional degree	None	As fast as average	\$60,000 to \$79,999
Library technicians	Postsecondary nondegree award	None	Decline	\$30,000 to \$39,999
Licensed practical and licensed vocational nurses	Postsecondary nondegree award	None	Faster than average	\$40,000 to \$59,999
Life scientists, all other	Bachelor's degree	None	Faster than average	\$80,000 or more
Life, physical, and social science technicians, all other	Associate's degree	None	As fast as average	\$40,000 to \$59,999
Lifeguards, ski patrol, and other recreational protective service workers	No formal educational credential	Short-term on-the-job training	Faster than average	Less than \$30,000
Light truck drivers	High school diploma or equivalent	Short-term on-the-job training	Much faster than average	\$40,000 to \$59,999
Lighting technicians	Postsecondary nondegree award	Short-term on-the-job training	Decline	\$60,000 to \$79,999
Loading and moving machine operators, underground mining	No formal educational credential	Short-term on-the-job training	Decline	\$60,000 to \$79,999
Loan interviewers and clerks	High school diploma or equivalent	Short-term on-the-job training	Little or no change	\$40,000 to \$59,999
Loan officers	Bachelor's degree	Moderate-term on-the-job training	As fast as average	\$60,000 to \$79,999
Locker room, coatroom, and dressing room attendants	High school diploma or equivalent	Short-term on-the-job training	Faster than average	\$30,000 to \$39,999



OCCUPATION	ENTRY-LEVEL EDUCATION	ON-THE-JOB TRAINING	PROJECTED GROWTH RATE	2022 MEDIAN PAY
Locksmiths and safe repairers	High school diploma or equivalent	Long-term on-the-job training	Decline	\$40,000 to \$59,999
Locomotive engineers	High school diploma or equivalent	Moderate-term on-the-job training	Little or no change	\$60,000 to \$79,999
Lodging managers	High school diploma or equivalent	None	Faster than average	\$60,000 to \$79,999
Log graders and scalers	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Logging equipment operators	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Logging workers, all other	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Logisticians	Bachelor's degree	None	Much faster than average	\$60,000 to \$79,999
Machine feeders and offbearers	No formal educational credential	Short-term on-the-job training	Faster than average	\$30,000 to \$39,999
Machinists	High school diploma or equivalent	Long-term on-the-job training	As fast as average	\$40,000 to \$59,999
Magnetic resonance imaging technologists	Associate's degree	None	Faster than average	\$80,000 or more
Maids and housekeeping cleaners	No formal educational credential	Short-term on-the-job training	Little or no change	Less than \$30,000
Mail clerks and mail machine operators, except postal service	High school diploma or equivalent	Short-term on-the-job training	Decline	\$30,000 to \$39,999
Maintenance and repair workers, general	High school diploma or equivalent	Moderate-term on-the-job training	As fast as average	\$40,000 to \$59,999
Maintenance workers, machinery	High school diploma or equivalent	Long-term on-the-job training	Faster than average	\$40,000 to \$59,999
Makeup artists, theatrical and performance	Postsecondary nondegree award	None	Much faster than average	\$80,000 or more
Management analysts	Bachelor's degree	None	Much faster than average	\$80,000 or more
Managers, all other	Bachelor's degree	None	As fast as average	\$80,000 or more
Manicurists and pedicurists	Postsecondary nondegree award	None	Much faster than average	\$30,000 to \$39,999





OCCUPATION	ENTRY-LEVEL EDUCATION	ON-THE-JOB TRAINING	PROJECTED GROWTH RATE	2022 MEDIAN PAY
Manufactured building and mobile home installers	High school diploma or equivalent	Short-term on-the-job training	Decline	\$30,000 to \$39,999
Marine engineers and naval architects	Bachelor's degree	None	Little or no change	\$80,000 or more
Market research analysts and marketing specialists	Bachelor's degree	None	Much faster than average	\$60,000 to \$79,999
Marketing managers	Bachelor's degree	None	Faster than average	\$80,000 or more
Marriage and family therapists	Master's degree	Internship/residency	Much faster than average	\$40,000 to \$59,999
Massage therapists	Postsecondary nondegree award	None	Much faster than average	\$40,000 to \$59,999
Material moving workers, all other	No formal educational credential	Short-term on-the-job training	As fast as average	\$30,000 to \$39,999
Materials engineers	Bachelor's degree	None	Faster than average	\$80,000 or more
Materials scientists	Bachelor's degree	None	Faster than average	\$80,000 or more
Mathematical science occupations, all other	Bachelor's degree	None	Faster than average	\$60,000 to \$79,999
Mathematical science teachers, postsecondary	Doctoral or professional degree	None	As fast as average	\$60,000 to \$79,999
Mathematicians	Master's degree	None	As fast as average	\$80,000 or more
Meat, poultry, and fish cutters and trimmers	No formal educational credential	Short-term on-the-job training	As fast as average	\$30,000 to \$39,999
Mechanical door repairers	High school diploma or equivalent	Moderate-term on-the-job training	Much faster than average	\$40,000 to \$59,999
Mechanical drafters	Associate's degree	None	Decline	\$60,000 to \$79,999
Mechanical engineering technologists and technicians	Associate's degree	None	Little or no change	\$60,000 to \$79,999
Mechanical engineers	Bachelor's degree	None	Much faster than average	\$80,000 or more
Media and communication equipment workers, all other	High school diploma or equivalent	Short-term on-the-job training	As fast as average	\$60,000 to \$79,999
Media and communication workers, all other	High school diploma or equivalent	Short-term on-the-job training	As fast as average	\$60,000 to \$79,999
Medical and health services managers	Bachelor's degree	None	Much faster than average	\$80,000 or more





OCCUPATION	ENTRY-LEVEL EDUCATION	ON-THE-JOB TRAINING	PROJECTED GROWTH RATE	2022 MEDIAN PAY
Medical appliance technicians	High school diploma or equivalent	Moderate-term on-the-job training	As fast as average	\$40,000 to \$59,999
Medical assistants	Postsecondary nondegree award	None	Much faster than average	\$30,000 to \$39,999
Medical dosimetrists	Bachelor's degree	None	As fast as average	\$80,000 or more
Medical equipment preparers	High school diploma or equivalent	Moderate-term on-the-job training	Faster than average	\$40,000 to \$59,999
Medical equipment repairers	Associate's degree	Moderate-term on-the-job training	Much faster than average	\$40,000 to \$59,999
Medical records specialists	Postsecondary nondegree award	None	Faster than average	\$40,000 to \$59,999
Medical scientists, except epidemiologists	Doctoral or professional degree	None	Much faster than average	\$80,000 or more
Medical secretaries and administrative assistants	High school diploma or equivalent	Moderate-term on-the-job training	Faster than average	\$30,000 to \$39,999
Medical transcriptionists	Postsecondary nondegree award	None	Decline	\$30,000 to \$39,999
Meeting, convention, and event planners	Bachelor's degree	None	Faster than average	\$40,000 to \$59,999
Mental health and substance abuse social workers	Master's degree	Internship/residency	Much faster than average	\$40,000 to \$59,999
Merchandise displayers and window trimmers	High school diploma or equivalent	Short-term on-the-job training	As fast as average	\$30,000 to \$39,999
Metal workers and plastic workers, all other	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$30,000 to \$39,999
Metal-refining furnace operators and tenders	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Meter readers, utilities	High school diploma or equivalent	Short-term on-the-job training	Decline	\$40,000 to \$59,999
Microbiologists	Bachelor's degree	None	Faster than average	\$80,000 or more
Middle school teachers, except special and career/technical education	Bachelor's degree	None	Little or no change	\$60,000 to \$79,999
Milling and planing machine setters, operators, and tenders, metal and plastic	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Millwrights	High school diploma or equivalent	Apprenticeship	As fast as average	\$60,000 to \$79,999



OCCUPATION	ENTRY-LEVEL EDUCATION	ON-THE-JOB TRAINING	PROJECTED GROWTH RATE	2022 MEDIAN PAY
Mining and geological engineers, including mining safety engineers	Bachelor's degree	None	Little or no change	\$80,000 or more
Miscellaneous assemblers and fabricators	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$30,000 to \$39,999
Miscellaneous construction and related workers	High school diploma or equivalent	Moderate-term on-the-job training	As fast as average	\$40,000 to \$59,999
Mixing and blending machine setters, operators, and tenders	High school diploma or equivalent	Moderate-term on-the-job training	As fast as average	\$40,000 to \$59,999
Mobile heavy equipment mechanics, except engines	High school diploma or equivalent	Long-term on-the-job training	Faster than average	\$40,000 to \$59,999
Model makers, metal and plastic	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Model makers, wood	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Models	No formal educational credential	None	Little or no change	\$40,000 to \$59,999
Molders, shapers, and casters, except metal and plastic	High school diploma or equivalent	Long-term on-the-job training	As fast as average	\$30,000 to \$39,999
Molding, coremaking, and casting machine setters, operators, and tenders, metal and plastic	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$30,000 to \$39,999
Morticians, undertakers, and funeral arrangers	Associate's degree	Long-term on-the-job training	As fast as average	\$40,000 to \$59,999
Motion picture projectionists	No formal educational credential	Short-term on-the-job training	Decline	\$30,000 to \$39,999
Motor vehicle operators, all other	No formal educational credential	Short-term on-the-job training	Faster than average	\$30,000 to \$39,999
Motorboat mechanics and service technicians	High school diploma or equivalent	Long-term on-the-job training	Faster than average	\$40,000 to \$59,999
Motorboat operators	Postsecondary nondegree award	None	As fast as average	\$40,000 to \$59,999
Motorcycle mechanics	Postsecondary nondegree award	Short-term on-the-job training	As fast as average	\$40,000 to \$59,999
Multiple machine tool setters, operators, and tenders, metal and plastic	High school diploma or equivalent	Moderate-term on-the-job training	Little or no change	\$30,000 to \$39,999
Museum technicians and conservators	Bachelor's degree	None	Much faster than average	\$40,000 to \$59,999



OCCUPATION	ENTRY-LEVEL EDUCATION	ON-THE-JOB TRAINING	PROJECTED GROWTH RATE	2022 MEDIAN PAY
Music directors and composers	Bachelor's degree	None	Little or no change	\$60,000 to \$79,999
Musical instrument repairers and tuners	High school diploma or equivalent	Apprenticeship	Decline	\$30,000 to \$39,999
Musicians and singers	No formal educational credential	Long-term on-the-job training	Little or no change	n/a
Natural sciences managers	Bachelor's degree	None	Faster than average	\$80,000 or more
Network and computer systems administrators	Bachelor's degree	None	As fast as average	\$80,000 or more
Neurologists	Doctoral or professional degree	Internship/residency	As fast as average	\$80,000 or more
New accounts clerks	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
News analysts, reporters, and journalists	Bachelor's degree	None	Decline	\$40,000 to \$59,999
Nuclear engineers	Bachelor's degree	None	Little or no change	\$80,000 or more
Nuclear medicine technologists	Associate's degree	None	Little or no change	\$80,000 or more
Nuclear power reactor operators	High school diploma or equivalent	Long-term on-the-job training	Decline	\$80,000 or more
Nuclear technicians	Associate's degree	Moderate-term on-the-job training	Little or no change	\$80,000 or more
Nurse anesthetists	Master's degree	None	Much faster than average	\$80,000 or more
Nurse midwives	Master's degree	None	Faster than average	\$80,000 or more
Nurse practitioners	Master's degree	None	Much faster than average	\$80,000 or more
Nursing assistants	Postsecondary nondegree award	None	As fast as average	\$30,000 to \$39,999
Nursing instructors and teachers, postsecondary	Doctoral or professional degree	None	Much faster than average	\$60,000 to \$79,999
Obstetricians and gynecologists	Doctoral or professional degree	Internship/residency	As fast as average	\$80,000 or more
Occupational health and safety specialists	Bachelor's degree	None	Much faster than average	\$60,000 to \$79,999
Occupational health and safety technicians	High school diploma or equivalent	Moderate-term on-the-job training	Much faster than average	\$40,000 to \$59,999



OCCUPATION	ENTRY-LEVEL EDUCATION	ON-THE-JOB TRAINING	PROJECTED GROWTH RATE	2022 MEDIAN PAY
Occupational therapists	Master's degree	None	Much faster than average	\$80,000 or more
Occupational therapy aides	High school diploma or equivalent	Short-term on-the-job training	Faster than average	\$30,000 to \$39,999
Occupational therapy assistants	Associate's degree	None	Much faster than average	\$60,000 to \$79,999
Office and administrative support workers, all other	High school diploma or equivalent	Short-term on-the-job training	Decline	\$30,000 to \$39,999
Office clerks, general	High school diploma or equivalent	Short-term on-the-job training	Decline	\$30,000 to \$39,999
Office machine operators, except computer	High school diploma or equivalent	Short-term on-the-job training	Decline	\$30,000 to \$39,999
Operating engineers and other construction equipment operators	High school diploma or equivalent	Moderate-term on-the-job training	As fast as average	\$40,000 to \$59,999
Operations research analysts	Bachelor's degree	None	Much faster than average	\$80,000 or more
Ophthalmic laboratory technicians	High school diploma or equivalent	Moderate-term on-the-job training	Little or no change	\$30,000 to \$39,999
Ophthalmic medical technicians	Postsecondary nondegree award	None	Much faster than average	\$30,000 to \$39,999
Ophthalmologists, except pediatric	Doctoral or professional degree	Internship/residency	As fast as average	\$80,000 or more
Opticians, dispensing	High school diploma or equivalent	Long-term on-the-job training	As fast as average	\$30,000 to \$39,999
Optometrists	Doctoral or professional degree	None	Much faster than average	\$80,000 or more
Oral and maxillofacial surgeons	Doctoral or professional degree	Internship/residency	Faster than average	\$80,000 or more
Order clerks	Some college, no degree	Short-term on-the-job training	Decline	\$30,000 to \$39,999
Orderlies	High school diploma or equivalent	Short-term on-the-job training	As fast as average	\$30,000 to \$39,999
Orthodontists	Doctoral or professional degree	Internship/residency	As fast as average	\$80,000 or more
Orthopedic surgeons, except pediatric	Doctoral or professional degree	Internship/residency	As fast as average	\$80,000 or more





OCCUPATION	ENTRY-LEVEL EDUCATION	ON-THE-JOB TRAINING	PROJECTED GROWTH RATE	2022 MEDIAN PAY
Orthotists and prosthetists	Master's degree	Internship/residency	Much faster than average	\$60,000 to \$79,999
Outdoor power equipment and other small engine mechanics	High school diploma or equivalent	Moderate-term on-the-job training	Little or no change	\$40,000 to \$59,999
Packaging and filling machine operators and tenders	High school diploma or equivalent	Moderate-term on-the-job training	Faster than average	\$30,000 to \$39,999
Packers and packagers, hand	No formal educational credential	Short-term on-the-job training	Little or no change	\$30,000 to \$39,999
Painters, construction and maintenance	No formal educational credential	Moderate-term on-the-job training	Little or no change	\$40,000 to \$59,999
Painting, coating, and decorating workers	No formal educational credential	Moderate-term on-the-job training	Little or no change	\$30,000 to \$39,999
Paper goods machine setters, operators, and tenders	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Paperhangers	No formal educational credential	Long-term on-the-job training	As fast as average	\$40,000 to \$59,999
Paralegals and legal assistants	Associate's degree	None	As fast as average	\$40,000 to \$59,999
Paramedics	Postsecondary nondegree award	None	Faster than average	\$40,000 to \$59,999
Parking attendants	No formal educational credential	Short-term on-the-job training	Little or no change	\$30,000 to \$39,999
Parking enforcement workers	High school diploma or equivalent	Short-term on-the-job training	Little or no change	\$40,000 to \$59,999
Parts salespersons	No formal educational credential	Moderate-term on-the-job training	Little or no change	\$30,000 to \$39,999
Passenger attendants	High school diploma or equivalent	Short-term on-the-job training	As fast as average	\$30,000 to \$39,999
Patternmakers, metal and plastic	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Patternmakers, wood	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Paving, surfacing, and tamping equipment operators	High school diploma or equivalent	Moderate-term on-the-job training	As fast as average	\$40,000 to \$59,999





OCCUPATION	ENTRY-LEVEL EDUCATION	ON-THE-JOB TRAINING	PROJECTED GROWTH RATE	2022 MEDIAN PAY
Payroll and timekeeping clerks	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Pediatric surgeons	Doctoral or professional degree	Internship/residency	Little or no change	\$80,000 or more
Pediatricians, general	Doctoral or professional degree	Internship/residency	Little or no change	\$80,000 or more
Personal care and service workers, all other	High school diploma or equivalent	Short-term on-the-job training	Much faster than average	\$30,000 to \$39,999
Personal financial advisors	Bachelor's degree	Long-term on-the-job training	Much faster than average	\$80,000 or more
Personal service managers, all other	High school diploma or equivalent	None	As fast as average	\$40,000 to \$59,999
Pest control workers	High school diploma or equivalent	Moderate-term on-the-job training	As fast as average	\$30,000 to \$39,999
Pesticide handlers, sprayers, and applicators, vegetation	High school diploma or equivalent	Moderate-term on-the-job training	As fast as average	\$40,000 to \$59,999
Petroleum engineers	Bachelor's degree	None	As fast as average	\$80,000 or more
Petroleum pump system operators, refinery operators, and gaugers	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$80,000 or more
Pharmacists	Doctoral or professional degree	None	As fast as average	\$80,000 or more
Pharmacy aides	High school diploma or equivalent	Short-term on-the-job training	Decline	\$30,000 to \$39,999
Pharmacy technicians	High school diploma or equivalent	Moderate-term on-the-job training	Faster than average	\$30,000 to \$39,999
Philosophy and religion teachers, postsecondary	Doctoral or professional degree	None	As fast as average	\$60,000 to \$79,999
Phlebotomists	Postsecondary nondegree award	None	Faster than average	\$30,000 to \$39,999
Photographers	High school diploma or equivalent	Moderate-term on-the-job training	As fast as average	\$40,000 to \$59,999
Photographic process workers and processing machine operators	High school diploma or equivalent	Short-term on-the-job training	Decline	\$30,000 to \$39,999



OCCUPATION	ENTRY-LEVEL EDUCATION	ON-THE-JOB TRAINING	PROJECTED GROWTH RATE	2022 MEDIAN PAY
Physical scientists, all other	Bachelor's degree	None	As fast as average	\$80,000 or more
Physical therapist aides	High school diploma or equivalent	Short-term on-the-job training	As fast as average	\$30,000 to \$39,999
Physical therapist assistants	Associate's degree	None	Much faster than average	\$60,000 to \$79,999
Physical therapists	Doctoral or professional degree	None	Much faster than average	\$80,000 or more
Physician assistants	Master's degree	None	Much faster than average	\$80,000 or more
Physicians, all other	Doctoral or professional degree	Internship/residency	As fast as average	\$80,000 or more
Physicians, pathologists	Doctoral or professional degree	Internship/residency	Faster than average	\$80,000 or more
Physicists	Doctoral or professional degree	None	Faster than average	\$80,000 or more
Physics teachers, postsecondary	Doctoral or professional degree	None	As fast as average	\$80,000 or more
Pile driver operators	High school diploma or equivalent	Moderate-term on-the-job training	As fast as average	\$60,000 to \$79,999
Pipelayers	No formal educational credential	Short-term on-the-job training	Decline	\$40,000 to \$59,999
Plant and system operators, all other	High school diploma or equivalent	Moderate-term on-the-job training	Little or no change	\$40,000 to \$59,999
Plasterers and stucco masons	No formal educational credential	Long-term on-the-job training	As fast as average	\$40,000 to \$59,999
Plating machine setters, operators, and tenders, metal and plastic	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$30,000 to \$39,999
Plumbers, pipefitters, and steamfitters	High school diploma or equivalent	Apprenticeship	As fast as average	\$60,000 to \$79,999
Podiatrists	Doctoral or professional degree	Internship/residency	Little or no change	\$80,000 or more
Police and sheriff's patrol officers	High school diploma or equivalent	Moderate-term on-the-job training	As fast as average	\$60,000 to \$79,999



OCCUPATION	ENTRY-LEVEL EDUCATION	ON-THE-JOB TRAINING	PROJECTED GROWTH RATE	2022 MEDIAN PAY
Political science teachers, postsecondary	Doctoral or professional degree	None	As fast as average	\$80,000 or more
Political scientists	Master's degree	None	Faster than average	\$80,000 or more
Postal service clerks	No formal educational credential	Short-term on-the-job training	Decline	\$40,000 to \$59,999
Postal service mail carriers	No formal educational credential	Short-term on-the-job training	Decline	\$40,000 to \$59,999
Postal service mail sorters, processors, and processing machine operators	No formal educational credential	Short-term on-the-job training	Decline	\$40,000 to \$59,999
Postmasters and mail superintendents	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$80,000 or more
Postsecondary teachers, all other	Doctoral or professional degree	None	As fast as average	\$60,000 to \$79,999
Pourers and casters, metal	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Power distributors and dispatchers	High school diploma or equivalent	Long-term on-the-job training	Decline	\$80,000 or more
Power plant operators	High school diploma or equivalent	Long-term on-the-job training	Decline	\$80,000 or more
Precision instrument and equipment repairers, all other	High school diploma or equivalent	Long-term on-the-job training	Little or no change	\$60,000 to \$79,999
Prepress technicians and workers	Postsecondary nondegree award	None	Decline	\$40,000 to \$59,999
Preschool teachers, except special education	Associate's degree	None	As fast as average	\$30,000 to \$39,999
Pressers, textile, garment, and related materials	No formal educational credential	Short-term on-the-job training	Decline	Less than \$30,000
Print binding and finishing workers	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$30,000 to \$39,999
Printing press operators	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$30,000 to \$39,999
Private detectives and investigators	High school diploma or equivalent	Moderate-term on-the-job training	Faster than average	\$40,000 to \$59,999



OCCUPATION	ENTRY-LEVEL EDUCATION	ON-THE-JOB TRAINING	PROJECTED GROWTH RATE	2022 MEDIAN PAY
Probation officers and correctional treatment specialists	Bachelor's degree	Moderate-term on-the-job training	As fast as average	\$40,000 to \$59,999
Procurement clerks	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Producers and directors	Bachelor's degree	None	Faster than average	\$80,000 or more
Production workers, all other	High school diploma or equivalent	Moderate-term on-the-job training	Little or no change	\$30,000 to \$39,999
Production, planning, and expediting clerks	High school diploma or equivalent	Moderate-term on-the-job training	As fast as average	\$40,000 to \$59,999
Project management specialists	Bachelor's degree	None	Faster than average	\$80,000 or more
Proofreaders and copy markers	Bachelor's degree	None	Decline	\$40,000 to \$59,999
Property appraisers and assessors	Bachelor's degree	Long-term on-the-job training	Faster than average	\$60,000 to \$79,999
Property, real estate, and community association managers	High school diploma or equivalent	Short-term on-the-job training	Faster than average	\$60,000 to \$79,999
Prosthodontists	Doctoral or professional degree	Internship/residency	Faster than average	n/a
Protective service workers, all other	High school diploma or equivalent	Short-term on-the-job training	As fast as average	\$30,000 to \$39,999
Psychiatric aides	High school diploma or equivalent	Short-term on-the-job training	Faster than average	\$30,000 to \$39,999
Psychiatric technicians	Postsecondary nondegree award	Short-term on-the-job training	Much faster than average	\$30,000 to \$39,999
Psychiatrists	Doctoral or professional degree	Internship/residency	Faster than average	\$80,000 or more
Psychologists, all other	Master's degree	Internship/residency	Faster than average	\$80,000 or more
Psychology teachers, postsecondary	Doctoral or professional degree	None	Faster than average	\$60,000 to \$79,999
Public relations managers	Bachelor's degree	None	Faster than average	\$80,000 or more
Public relations specialists	Bachelor's degree	None	Faster than average	\$60,000 to \$79,999
Public safety telecommunicators	High school diploma or equivalent	Moderate-term on-the-job training	As fast as average	\$40,000 to \$59,999





OCCUPATION	ENTRY-LEVEL EDUCATION	ON-THE-JOB TRAINING	PROJECTED GROWTH RATE	2022 MEDIAN PAY
Pump operators, except wellhead pumpers	High school diploma or equivalent	Moderate-term on-the-job training	As fast as average	\$40,000 to \$59,999
Purchasing managers	Bachelor's degree	None	As fast as average	\$80,000 or more
Radiation therapists	Associate's degree	None	As fast as average	\$80,000 or more
Radio, cellular, and tower equipment installers and repairers	Associate's degree	Moderate-term on-the-job training	As fast as average	\$40,000 to \$59,999
Radiologic technologists and technicians	Associate's degree	None	Faster than average	\$60,000 to \$79,999
Radiologists	Doctoral or professional degree	Internship/residency	As fast as average	\$80,000 or more
Rail car repairers	High school diploma or equivalent	Long-term on-the-job training	As fast as average	\$60,000 to \$79,999
Rail transportation workers, all other	High school diploma or equivalent	Moderate-term on-the-job training	As fast as average	\$40,000 to \$59,999
Rail yard engineers, dinkey operators, and hostlers	High school diploma or equivalent	Moderate-term on-the-job training	As fast as average	\$40,000 to \$59,999
Rail-track laying and maintenance equipment operators	High school diploma or equivalent	Moderate-term on-the-job training	Little or no change	\$60,000 to \$79,999
Railroad brake, signal, and switch operators and locomotive firers	High school diploma or equivalent	Moderate-term on-the-job training	Little or no change	\$60,000 to \$79,999
Railroad conductors and yardmasters	High school diploma or equivalent	Moderate-term on-the-job training	Little or no change	\$60,000 to \$79,999
Real estate brokers	High school diploma or equivalent	None	As fast as average	\$60,000 to \$79,999
Real estate sales agents	High school diploma or equivalent	Moderate-term on-the-job training	As fast as average	\$40,000 to \$59,999
Receptionists and information clerks	High school diploma or equivalent	Short-term on-the-job training	Little or no change	\$30,000 to \$39,999
Recreation and fitness studies teachers, postsecondary	Doctoral or professional degree	None	As fast as average	\$60,000 to \$79,999
Recreation workers	High school diploma or equivalent	Short-term on-the-job training	Faster than average	\$30,000 to \$39,999
Recreational therapists	Bachelor's degree	None	As fast as average	\$40,000 to \$59,999





OCCUPATION	ENTRY-LEVEL EDUCATION	ON-THE-JOB TRAINING	PROJECTED GROWTH RATE	2022 MEDIAN PAY
Recreational vehicle service technicians	High school diploma or equivalent	Long-term on-the-job training	Much faster than average	\$40,000 to \$59,999
Refractory materials repairers, except brickmasons	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Refuse and recyclable material collectors	No formal educational credential	Short-term on-the-job training	As fast as average	\$40,000 to \$59,999
Registered nurses	Bachelor's degree	None	Faster than average	\$80,000 or more
Rehabilitation counselors	Master's degree	None	As fast as average	\$30,000 to \$39,999
Reinforcing iron and rebar workers	High school diploma or equivalent	Apprenticeship	Little or no change	\$40,000 to \$59,999
Religious workers, all other	Bachelor's degree	None	Little or no change	\$30,000 to \$39,999
Reservation and transportation ticket agents and travel clerks	High school diploma or equivalent	Short-term on-the-job training	Little or no change	\$30,000 to \$39,999
Residential advisors	High school diploma or equivalent	Short-term on-the-job training	Faster than average	\$30,000 to \$39,999
Respiratory therapists	Associate's degree	None	Much faster than average	\$60,000 to \$79,999
Retail salespersons	No formal educational credential	Short-term on-the-job training	Decline	\$30,000 to \$39,999
Riggers	High school diploma or equivalent	Moderate-term on-the-job training	Little or no change	\$40,000 to \$59,999
Rock splitters, quarry	No formal educational credential	Short-term on-the-job training	As fast as average	\$40,000 to \$59,999
Rolling machine setters, operators, and tenders, metal and plastic	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Roof bolters, mining	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$60,000 to \$79,999
Roofers	No formal educational credential	Moderate-term on-the-job training	As fast as average	\$40,000 to \$59,999
Rotary drill operators, oil and gas	No formal educational credential	Moderate-term on-the-job training	Little or no change	\$40,000 to \$59,999



OCCUPATION	ENTRY-LEVEL EDUCATION	ON-THE-JOB TRAINING	PROJECTED GROWTH RATE	2022 MEDIAN PAY
Roustabouts, oil and gas	No formal educational credential	Moderate-term on-the-job training	As fast as average	\$40,000 to \$59,999
Sailors and marine oilers	No formal educational credential	Moderate-term on-the-job training	As fast as average	\$40,000 to \$59,999
Sales and related workers, all other	High school diploma or equivalent	None	As fast as average	\$40,000 to \$59,999
Sales engineers	Bachelor's degree	Moderate-term on-the-job training	Faster than average	\$80,000 or more
Sales managers	Bachelor's degree	None	As fast as average	\$80,000 or more
Sales representatives of services, except advertising, insurance, financial services, and travel	High school diploma or equivalent	Moderate-term on-the-job training	As fast as average	\$60,000 to \$79,999
Sales representatives, wholesale and manufacturing, except technical and scientific products	High school diploma or equivalent	Moderate-term on-the-job training	Little or no change	\$60,000 to \$79,999
Sales representatives, wholesale and manufacturing, technical and scientific products	Bachelor's degree	Moderate-term on-the-job training	As fast as average	\$80,000 or more
Sawing machine setters, operators, and tenders, wood	High school diploma or equivalent	Moderate-term on-the-job training	Little or no change	\$30,000 to \$39,999
School bus monitors	High school diploma or equivalent	Short-term on-the-job training	Decline	Less than \$30,000
School psychologists	Master's degree	Internship/residency	Little or no change	\$80,000 or more
Secondary school teachers, except special and career/technical education	Bachelor's degree	None	Little or no change	\$60,000 to \$79,999
Secretaries and administrative assistants, except legal, medical, and executive	High school diploma or equivalent	Short-term on-the-job training	Decline	\$40,000 to \$59,999
Securities, commodities, and financial services sales agents	Bachelor's degree	Moderate-term on-the-job training	Faster than average	\$60,000 to \$79,999
Security and fire alarm systems installers	High school diploma or equivalent	Moderate-term on-the-job training	As fast as average	\$40,000 to \$59,999
Security guards	High school diploma or equivalent	Short-term on-the-job training	Little or no change	\$30,000 to \$39,999
Self-enrichment teachers	High school diploma or equivalent	None	As fast as average	\$40,000 to \$59,999



OCCUPATION	ENTRY-LEVEL EDUCATION	ON-THE-JOB TRAINING	PROJECTED GROWTH RATE	2022 MEDIAN PAY
Semiconductor processing technicians	High school diploma or equivalent	Moderate-term on-the-job training	Faster than average	\$40,000 to \$59,999
Separating, filtering, clarifying, precipitating, and still machine setters, operators, and tenders	High school diploma or equivalent	Moderate-term on-the-job training	As fast as average	\$40,000 to \$59,999
Septic tank servicers and sewer pipe cleaners	High school diploma or equivalent	Moderate-term on-the-job training	Faster than average	\$40,000 to \$59,999
Service unit operators, oil and gas	No formal educational credential	Moderate-term on-the-job training	Little or no change	\$40,000 to \$59,999
Set and exhibit designers	Bachelor's degree	None	Faster than average	\$40,000 to \$59,999
Sewers, hand	No formal educational credential	Moderate-term on-the-job training	Decline	\$30,000 to \$39,999
Sewing machine operators	No formal educational credential	Short-term on-the-job training	Decline	\$30,000 to \$39,999
Shampooers	No formal educational credential	Short-term on-the-job training	Much faster than average	Less than \$30,000
Sheet metal workers	High school diploma or equivalent	Apprenticeship	Little or no change	\$40,000 to \$59,999
Ship engineers	Postsecondary nondegree award	None	Little or no change	\$80,000 or more
Shipping, receiving, and inventory clerks	High school diploma or equivalent	Short-term on-the-job training	Decline	\$30,000 to \$39,999
Shoe and leather workers and repairers	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$30,000 to \$39,999
Shoe machine operators and tenders	High school diploma or equivalent	Short-term on-the-job training	Decline	\$30,000 to \$39,999
Shuttle drivers and chauffeurs	No formal educational credential	Short-term on-the-job training	Faster than average	\$30,000 to \$39,999
Signal and track switch repairers	High school diploma or equivalent	Moderate-term on-the-job training	Little or no change	\$80,000 or more
Skincare specialists	Postsecondary nondegree award	None	Much faster than average	\$30,000 to \$39,999
Slaughterers and meat packers	No formal educational credential	Short-term on-the-job training	Little or no change	\$30,000 to \$39,999



OCCUPATION	ENTRY-LEVEL EDUCATION	ON-THE-JOB TRAINING	PROJECTED GROWTH RATE	2022 MEDIAN PAY
Social and community service managers	Bachelor's degree	None	Much faster than average	\$60,000 to \$79,999
Social and human service assistants	High school diploma or equivalent	Short-term on-the-job training	Much faster than average	\$30,000 to \$39,999
Social science research assistants	Bachelor's degree	None	Faster than average	\$40,000 to \$59,999
Social sciences teachers, postsecondary, all other	Doctoral or professional degree	None	As fast as average	\$60,000 to \$79,999
Social scientists and related workers, all other	Bachelor's degree	None	As fast as average	\$80,000 or more
Social work teachers, postsecondary	Doctoral or professional degree	None	As fast as average	\$60,000 to \$79,999
Social workers, all other	Bachelor's degree	None	Faster than average	\$60,000 to \$79,999
Sociologists	Master's degree	None	Faster than average	\$80,000 or more
Sociology teachers, postsecondary	Doctoral or professional degree	None	As fast as average	\$60,000 to \$79,999
Software developers	Bachelor's degree	None	Much faster than average	\$80,000 or more
Software quality assurance analysts and testers	Bachelor's degree	None	Much faster than average	\$80,000 or more
Soil and plant scientists	Bachelor's degree	None	Faster than average	\$60,000 to \$79,999
Solar photovoltaic installers	High school diploma or equivalent	Moderate-term on-the-job training	Much faster than average	\$40,000 to \$59,999
Sound engineering technicians	Postsecondary nondegree award	Short-term on-the-job training	Little or no change	\$60,000 to \$79,999
Special education teachers, all other	Bachelor's degree	None	As fast as average	\$60,000 to \$79,999
Special education teachers, kindergarten and elementary school	Bachelor's degree	None	Little or no change	\$60,000 to \$79,999
Special education teachers, middle school	Bachelor's degree	None	Little or no change	\$60,000 to \$79,999
Special education teachers, preschool	Bachelor's degree	None	As fast as average	\$60,000 to \$79,999
Special education teachers, secondary school	Bachelor's degree	None	Little or no change	\$60,000 to \$79,999
Special effects artists and animators	Bachelor's degree	None	Faster than average	\$80,000 or more
Speech-language pathologists	Master's degree	Internship/residency	Much faster than average	\$80,000 or more





OCCUPATION	ENTRY-LEVEL EDUCATION	ON-THE-JOB TRAINING	PROJECTED GROWTH RATE	2022 MEDIAN PAY
Stationary engineers and boiler operators	High school diploma or equivalent	Long-term on-the-job training	As fast as average	\$60,000 to \$79,999
Statistical assistants	Bachelor's degree	None	Decline	\$40,000 to \$59,999
Statisticians	Master's degree	None	Much faster than average	\$80,000 or more
Stockers and order fillers	High school diploma or equivalent	Short-term on-the-job training	Faster than average	\$30,000 to \$39,999
Stonemasons	High school diploma or equivalent	Apprenticeship	Decline	\$40,000 to \$59,999
Structural iron and steel workers	High school diploma or equivalent	Apprenticeship	As fast as average	\$60,000 to \$79,999
Structural metal fabricators and fitters	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Substance abuse, behavioral disorder, and mental health counselors	Bachelor's degree	None	Much faster than average	\$40,000 to \$59,999
Substitute teachers, short-term	Bachelor's degree	None	As fast as average	\$30,000 to \$39,999
Subway and streetcar operators	High school diploma or equivalent	Moderate-term on-the-job training	As fast as average	\$80,000 or more
Surgeons, all other	Doctoral or professional degree	Internship/residency	Little or no change	\$80,000 or more
Surgical assistants	Postsecondary nondegree award	None	Faster than average	\$40,000 to \$59,999
Surgical technologists	Postsecondary nondegree award	None	Faster than average	\$40,000 to \$59,999
Survey researchers	Master's degree	None	Decline	\$60,000 to \$79,999
Surveying and mapping technicians	High school diploma or equivalent	Moderate-term on-the-job training	As fast as average	\$40,000 to \$59,999
Surveyors	Bachelor's degree	Internship/residency	Faster than average	\$60,000 to \$79,999
Switchboard operators, including answering service	High school diploma or equivalent	Short-term on-the-job training	Decline	\$30,000 to \$39,999
Tailors, dressmakers, and custom sewers	No formal educational credential	Moderate-term on-the-job training	Decline	\$30,000 to \$39,999





OCCUPATION	ENTRY-LEVEL EDUCATION	ON-THE-JOB TRAINING	PROJECTED GROWTH RATE	2022 MEDIAN PAY
Tank car, truck, and ship loaders	No formal educational credential	Short-term on-the-job training	As fast as average	\$40,000 to \$59,999
Tapers	No formal educational credential	Moderate-term on-the-job training	Decline	\$60,000 to \$79,999
Tax examiners and collectors, and revenue agents	Bachelor's degree	Moderate-term on-the-job training	Little or no change	\$40,000 to \$59,999
Tax preparers	High school diploma or equivalent	Moderate-term on-the-job training	Little or no change	\$40,000 to \$59,999
Taxi drivers	No formal educational credential	Short-term on-the-job training	Much faster than average	\$30,000 to \$39,999
Teachers and instructors, all other	Bachelor's degree	None	As fast as average	\$60,000 to \$79,999
Teaching assistants, except postsecondary	Some college, no degree	None	Little or no change	\$30,000 to \$39,999
Teaching assistants, postsecondary	Bachelor's degree	None	As fast as average	\$30,000 to \$39,999
Technical writers	Bachelor's degree	Short-term on-the-job training	Faster than average	\$60,000 to \$79,999
Telecommunications equipment installers and repairers, except line installers	Postsecondary nondegree award	Moderate-term on-the-job training	Faster than average	\$40,000 to \$59,999
Telecommunications line installers and repairers	High school diploma or equivalent	Long-term on-the-job training	Faster than average	\$60,000 to \$79,999
Telemarketers	No formal educational credential	Short-term on-the-job training	Decline	\$30,000 to \$39,999
Telephone operators	High school diploma or equivalent	Short-term on-the-job training	Decline	\$30,000 to \$39,999
Tellers	High school diploma or equivalent	Short-term on-the-job training	Decline	\$30,000 to \$39,999
Terrazzo workers and finishers	High school diploma or equivalent	Apprenticeship	Decline	\$40,000 to \$59,999
Textile bleaching and dyeing machine operators and tenders	High school diploma or equivalent	Short-term on-the-job training	Decline	\$30,000 to \$39,999
Textile cutting machine setters, operators, and tenders	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$30,000 to \$39,999
Textile knitting and weaving machine setters, operators, and tenders	High school diploma or equivalent	Short-term on-the-job training	Decline	\$30,000 to \$39,999



OCCUPATION	ENTRY-LEVEL EDUCATION	ON-THE-JOB TRAINING	PROJECTED GROWTH RATE	2022 MEDIAN PAY
Textile winding, twisting, and drawing out machine setters, operators, and tenders	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$30,000 to \$39,999
Textile, apparel, and furnishings workers, all other	High school diploma or equivalent	Short-term on-the-job training	Decline	\$30,000 to \$39,999
Therapists, all other	Bachelor's degree	None	Much faster than average	\$60,000 to \$79,999
Tile and stone setters	No formal educational credential	Long-term on-the-job training	Faster than average	\$40,000 to \$59,999
Timing device assemblers and adjusters	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Tire builders	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Tire repairers and changers	High school diploma or equivalent	Short-term on-the-job training	Little or no change	\$30,000 to \$39,999
Title examiners, abstractors, and searchers	High school diploma or equivalent	Moderate-term on-the-job training	As fast as average	\$40,000 to \$59,999
Tool and die makers	Postsecondary nondegree award	Long-term on-the-job training	Decline	\$40,000 to \$59,999
Tool grinders, filers, and sharpeners	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Tour and travel guides	High school diploma or equivalent	Moderate-term on-the-job training	Faster than average	\$30,000 to \$39,999
Traffic technicians	High school diploma or equivalent	Moderate-term on-the-job training	As fast as average	\$40,000 to \$59,999
Training and development managers	Bachelor's degree	None	Faster than average	\$80,000 or more
Training and development specialists	Bachelor's degree	None	Faster than average	\$60,000 to \$79,999
Transit and railroad police	High school diploma or equivalent	Moderate-term on-the-job training	As fast as average	\$60,000 to \$79,999
Transportation inspectors	High school diploma or equivalent	Moderate-term on-the-job training	As fast as average	\$60,000 to \$79,999
Transportation security screeners	High school diploma or equivalent	Short-term on-the-job training	Little or no change	\$40,000 to \$59,999



OCCUPATION	ENTRY-LEVEL EDUCATION	ON-THE-JOB TRAINING	PROJECTED GROWTH RATE	2022 MEDIAN PAY
Transportation workers, all other	High school diploma or equivalent	Short-term on-the-job training	As fast as average	\$30,000 to \$39,999
Transportation, storage, and distribution managers	High school diploma or equivalent	None	Faster than average	\$80,000 or more
Travel agents	High school diploma or equivalent	Moderate-term on-the-job training	As fast as average	\$40,000 to \$59,999
Tree trimmers and pruners	High school diploma or equivalent	Short-term on-the-job training	As fast as average	\$40,000 to \$59,999
Tutors	Some college, no degree	None	As fast as average	\$30,000 to \$39,999
Umpires, referees, and other sports officials	High school diploma or equivalent	Moderate-term on-the-job training	Much faster than average	\$30,000 to \$39,999
Underground mining machine operators, all other	No formal educational credential	Moderate-term on-the-job training	Decline	\$60,000 to \$79,999
Upholsterers	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$30,000 to \$39,999
Urban and regional planners	Master's degree	None	As fast as average	\$60,000 to \$79,999
Ushers, lobby attendants, and ticket takers	No formal educational credential	Short-term on-the-job training	As fast as average	Less than \$30,000
Veterinarians	Doctoral or professional degree	None	Much faster than average	\$80,000 or more
Veterinary assistants and laboratory animal caretakers	High school diploma or equivalent	Short-term on-the-job training	Much faster than average	\$30,000 to \$39,999
Veterinary technologists and technicians	Associate's degree	None	Much faster than average	\$30,000 to \$39,999
Waiters and waitresses	No formal educational credential	Short-term on-the-job training	Decline	Less than \$30,000
Watch and clock repairers	High school diploma or equivalent	Long-term on-the-job training	Decline	\$40,000 to \$59,999
Water and wastewater treatment plant and system operators	High school diploma or equivalent	Long-term on-the-job training	Decline	\$40,000 to \$59,999
Web and digital interface designers	Bachelor's degree	None	Much faster than average	\$80,000 or more
Web developers	Bachelor's degree	None	Much faster than average	\$60,000 to \$79,999



OCCUPATION	ENTRY-LEVEL EDUCATION	ON-THE-JOB TRAINING	PROJECTED GROWTH RATE	2022 MEDIAN PAY
Weighers, measurers, checkers, and samplers, recordkeeping	High school diploma or equivalent	Short-term on-the-job training	Decline	\$30,000 to \$39,999
Welders, cutters, solderers, and brazers	High school diploma or equivalent	Moderate-term on-the-job training	Little or no change	\$40,000 to \$59,999
Welding, soldering, and brazing machine setters, operators, and tenders	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$40,000 to \$59,999
Wellhead pumpers	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$60,000 to \$79,999
Wind turbine service technicians	Postsecondary nondegree award	Long-term on-the-job training	Much faster than average	\$40,000 to \$59,999
Woodworkers, all other	High school diploma or equivalent	Moderate-term on-the-job training	Decline	\$30,000 to \$39,999
Woodworking machine setters, operators, and tenders, except sawing	High school diploma or equivalent	Moderate-term on-the-job training	Little or no change	\$30,000 to \$39,999
Word processors and typists	High school diploma or equivalent	Short-term on-the-job training	Decline	\$40,000 to \$59,999
Writers and authors	Bachelor's degree	Long-term on-the-job training	As fast as average	\$60,000 to \$79,999
Zoologists and wildlife biologists	Bachelor's degree	None	As fast as average	\$60,000 to \$79,999

Source: <https://www.bls.gov/ooh/occupation-finder.htm>

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n/a = The annual wage is not available.







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