

## Exploring Careers in Technology

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### Textbook

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### What Are Technology Careers?

Technology careers are jobs where people use computers, software, or machines to solve problems and create new tools. These jobs exist in almost every field—from healthcare and education to video game design and space exploration. Some people build websites, others protect companies from hackers, and some train computers to recognize faces or understand speech. If you enjoy solving puzzles, being creative, or using digital tools, there's likely a tech career for you!

### A World of Choices

Technology careers can be very different from one another. For example, a **software developer** writes code to create programs and apps, while a **data analyst** studies numbers to help businesses make smart decisions. A **cybersecurity expert** protects digital information from threats, and a **user experience (UX) designer** makes websites and apps easier to use. Some careers focus more on people, while others focus more on machines or information. Learning about different options helps you find a path that matches your strengths and interests.

## What Skills Do Employers Want?

No matter which tech career you're interested in, employers want you to have strong **technology skills**. This includes knowing how to type efficiently, use common software like spreadsheets and presentation tools, and understand how to find, use, and evaluate information online. Employers also look for people who can **solve problems, work well with others**, and **learn new tools quickly**. Some careers may require knowledge of specific programming languages, design tools, or computer systems. Practicing these skills now can help you be ready for the workplace in the future.

## Careers That Keep Changing

One of the exciting things about working in technology is that the field keeps evolving. New jobs are created all the time as new inventions and tools are developed. Ten years ago, very few people worked with artificial intelligence, but now it's a growing field with jobs in every industry. Staying curious and continuing to learn helps people in technology careers stay successful—even as tools and challenges change.

## How to Explore Tech Careers Today

You don't have to wait until you're an adult to start exploring. You can try coding, building robots, designing games, or creating videos right now. Look for school clubs, online tutorials, or local programs that let you build your tech skills. Talk to adults who work in technology, or read interviews with professionals to learn what their day-to-day jobs are like. The more you explore, the better prepared you'll be to choose a career path that fits you.

## Critical Thinking Questions

1. What kind of technology-related career do you think you'd enjoy most, and why?
2. Why is it important to keep learning new technology skills even after you start working?

## Questions (5)

### 1. Which of the following is a career that involves writing computer code?

MULTIPLE CHOICE

Choose the correct answer:

- A. Cybersecurity analyst
- B. Software developer
- C. Data analyst
- D. Computer hardware engineer

### 2. Why are technology careers always changing?

MULTIPLE CHOICE

Choose the correct answer:

- A. People don't like using computers.
- B. The same jobs have always existed.
- C. New tools and technologies are always being created.
- D. Most technology careers are part-time.

MULTIPLE CHOICE

**3. Which skill is most helpful for any technology-related career?**

**Choose the correct answer:**

- A. Playing video games
- B. Solving problems
- C. Drawing cartoons
- D. Memorizing passwords

MULTIPLE CHOICE

**4. What is one way to explore technology careers today?**

**Choose the correct answer:**

- A. Wait until college
- B. Watch only TV shows about tech
- C. Avoid using the internet
- D. Join a tech club at school

MULTIPLE CHOICE

**5. A UX (user experience) designer mostly focuses on:**

**Choose the correct answer:**

- A. Making websites and apps easy to use
- B. Building computer hardware
- C. Protecting systems from viruses
- D. Creating spreadsheets for budgets

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## Answer Keys & Solutions

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### Questions

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#### 1. Which of the following is a career that involves writing computer code?

MULTIPLE CHOICE

**Correct Answer:**

- |                               |             |
|-------------------------------|-------------|
| A. Cybersecurity analyst      | ✗ Incorrect |
| B. Software developer         | ✓ Correct   |
| C. Data analyst               | ✗ Incorrect |
| D. Computer hardware engineer | ✗ Incorrect |

#### 2. Why are technology careers always changing?

MULTIPLE CHOICE

**Correct Answer:**

- |   |             |
|---|-------------|
| A. People don't like using computers.                   | ✗ Incorrect |
| B. The same jobs have always existed.                   | ✗ Incorrect |
| C. New tools and technologies are always being created. | ✓ Correct   |
| D. Most technology careers are part-time.               | ✗ Incorrect |

#### 3. Which skill is most helpful for any technology-related career?

MULTIPLE CHOICE

**Correct Answer:**

- |                         |             |
|-------------------------|-------------|
| A. Playing video games  | ✗ Incorrect |
| B. Solving problems     | ✓ Correct   |
| C. Drawing cartoons     | ✗ Incorrect |
| D. Memorizing passwords | ✗ Incorrect |

#### 4. What is one way to explore technology careers today?

MULTIPLE CHOICE

**Correct Answer:**

- |                                   |             |
|-----------------------------------|-------------|
| A. Wait until college             | ✗ Incorrect |
| B. Watch only TV shows about tech | ✗ Incorrect |
| C. Avoid using the internet       | ✗ Incorrect |
| D. Join a tech club at school     | ✓ Correct   |

#### 5. A UX (user experience) designer mostly focuses on:

MULTIPLE CHOICE

**Correct Answer:**

- |   |             |
|---|-------------|
| A. Making websites and apps easy to use | ✓ Correct   |
| B. Building computer hardware           | ✗ Incorrect |
| C. Protecting systems from viruses      | ✗ Incorrect |
| D. Creating spreadsheets for budgets    | ✗ Incorrect |