Women in Technical Fields: List of Various Opportunities

Women work in every subfield of tech — from software development to machine learning and artificial intelligence. The most common tech roles for women include project manager, quality assurance tester, and business analyst. Women also pursue careers as data scientists, computer systems analysts, web developers, and UX/UI designers.

The tech careers with the highest projected job growth include information security analyst and software developer. Both fields report much faster than average projected job growth. Many professionals enter the tech workforce after completing a bachelor's degree. A bootcamp or certificate program can also help women launch tech careers.

The highest-paying tech jobs include computer network architects, information security analysts, and software developers. All three roles report median annual salaries of over $100,000, according to the BLS.

Employers prefer candidates with a bachelor's degree for these positions. Other high-paying tech careers include computer scientist and computer and information systems manager. Computer scientists earn a median annual wage of $126,830, as of May 2020, while computer and information systems managers earn over $151,000 per year.

These roles often require a graduate degree. Tech salaries vary depending on experience, job title, education level, and location.

The tech sector reports high salaries and strong job growth. According to the Bureau of Labor Statistics (BLS), computer and information technology occupations pay a median annual wage of $91,250, as of May 2020. That's more than twice the national median wage of $41,950.

Tech also reports strong projected growth. From 2020-2030, BLS projects the tech sector will add nearly 668,000 jobs, representing faster than average growth.

As a result, the career path offers a strong return on investment for prospective tech professionals. Women considering careers in tech benefit from professional associations, mentorship opportunities, and meetups that help women launch tech careers.

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Professional certifications help tech specialists move up the career ladder. So can researching companies that prioritize hiring women. For example, many companies implement hiring and retention policies focused on equity.

Tego Cyber Inc. has a program with an organization called IONnovate that pairs junior developers with senior developers. It offers opportunities to those who are looking to get their foot in the door.

Seeking out a mentor can also help women identify employment opportunities in tech.

One of the biggest challenges that women in tech face are a lack of role models. Women are often underrepresented in leadership positions in tech companies. This can make it difficult for women to advance their careers and achieve their goals.