Shelby County Schools Overton High School

Coding

Information Technology

JOB OUTLOOK

According to the Bureau of Labor Statistics (BLS), the employment outlook for computer programmers (synonymous with coders) has a bright outlook. Touted as hot careers by 2022 by the Tennessee Department of Labor and Workforce Development, computer programmers are projected to grow by 8% in the aforementioned year. Computer programming opportunities span across various career pathways depending on the types of responsibilities an individual has when telling a computer what to do.



OCCUPATION PROFILE

Software developers provide the conceptual design that is the foundation for a computer program. There are two types of software developers—the type that develops applications to do specific tasks on a computer or other device and the type that develops systems that run devices or control networks. Computer programmers use program designs that are developed by engineers and software developers to write instructions for computers to follow. The programmer's job entails refining the ideas and solving the problems that arise while converting the program into code.

SOFTWARE DEVELOPERS, APPLICATIONS

Median Salary: 88910

2016 ESTIMATED EMPLOYMENT 6230

2026 PROJECTED EMPLOYMENT 9500

TOTAL EMPLOYMENT CHANGE 3270

SOFTWARE DEVELOPERS, SYSTEMS SOFTWARE

Median Salary: 92210

2016 ESTIMATED EMPLOYMENT 4140

2026 PROJECTED EMPLOYMENT 5600

TOTAL EMPLOYMENT CHANGE 1460

INFORMATICS NURSE SPECIALISTS

Median Salary: 73480

2016 ESTIMATED EMPLOYMENT 7410

2026 PROJECTED EMPLOYMENT 9330

TOTAL EMPLOYMENT CHANGE 1920

COMPUTER SYSTEMS ANALYSTS

Median Salary: 73480

2016 ESTIMATED EMPLOYMENT

2026 PROJECTED EMPLOYMENT 9330

TOTAL EMPLOYMENT CHANGE 1920

COMPUTER PROGRAMMERS

Median Salary: 77490

2016 ESTIMATED EMPLOYMENT 4430

2026 PROJECTED EMPLOYMENT

TOTAL EMPLOYMENT CHANGE 460

PROGRAM OF STUDY PROFILE

The coding program is study is designed for students interested in computer programming. Students will develop standard programming techniques and learn the logic tools and methods typically used by programmers to create simple computer applications including learning how to write, analyze, review, and revise programs, converting detailed information from workflow charts and diagrams into coded instructions in a computer language.

CAREER PATHWAY

Early & Middle Grade Opportunities

Career Exploration C25X00

Secondary Grade Opportunities

- Computer Science Foundations
- Coding I
- Mobile App

 Development
- Coding Practicum

Postsecondary

Certificate: Mobile
Web Design Certificate
Associates Degree:
A.A.S. Computer Info
Technology:
Programming
Bachelor Degree: B.S.
Computer Info
Systems: Systems

Career Opportunities

- Software Developers, Applications
- Software Developers
- Informatics Nurse
- Computer Systems
 Analysts
- Computer Programmers

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