

# Computer Programmers

SOC: 15-1251 • Career Profile Report

## ■ Key Facts

<b>\$98,670</b> Median Salary	<b>7,200</b> Employment	<b>-6.0%</b> Growth Rate
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## ■ Requirements & Salary Range

Education: Bachelor's degree

## ■ Automation Risk Assessment

**Low Risk** - 12.0% probability of being automated in the next 10-20 years.

This job is relatively safe from automation due to its creative, social, or complex problem-solving requirements.

## ■ Work-Life Balance

**6.5/10** - Good work-life balance

## ■ Personality Fit (RIASEC)

Higher scores indicate better personality fit for this career type.

Realistic	7.4/10	Investigative	9.2/10
Artistic	4.6/10	Social	5.4/10
Enterprising	5.6/10	Conventional	6.8/10

## ■ Top Skills Required

Analytical skills, Communication skills, Detail oriented, Problem-solving skills

### ✓ Strengths

- High Demand
- Flexible Work
- Continuous Learning

### ■ Challenges

- Burnout Risk
- Rapid Technological Change

## ■ What They Do

Computer Programmers typically perform the following tasks: • Write, analyze, review, and rewrite programs, using workflow chart and diagram, and applying knowledge of computer capabilities, subject matter, and symbolic logic. • Correct errors by making appropriate changes and rechecking the program to ensure that the desired results are produced. • Perform or direct revision, repair, or expansion of existing programs to increase operating efficiency or adapt to new requirements. • Write, update, and maintain computer programs or software packages to handle specific jobs such as tracking inventory, storing or retrieving data, or controlling other equipment. • Consult with managerial, engineering, and technical personnel to clarify program intent, identify problems, and suggest changes. • Conduct trial runs of programs and software applications to be sure they will produce the desired information and that the instructions are correct. • Prepare detailed workflow charts and diagrams that describe input, output, and logical operation, and convert them into a series of instructions coded in a computer language. • Compile and write documentation of program development and subsequent revisions, inserting comments in the coded instructions so others can understand the program. • Consult with and assist computer operators or system analysts to define and resolve problems in running computer programs. • Perform systems analysis and programming tasks to maintain and control the use of computer systems software as a systems programmer. • Write or contribute to instructions or manuals to guide end users. • Investigate whether networks, workstations, the central processing unit of the system, or peripheral equipment are responding to a program's instructions. • Assign, coordinate, and review work and activities of programming personnel. • Train subordinates in programming and program coding. • Develop Web sites. • Train users on the use and function of computer programs. • Collaborate with computer manufacturers and other users to develop new programming methods.