

# APPLICATION PROGRAMMER

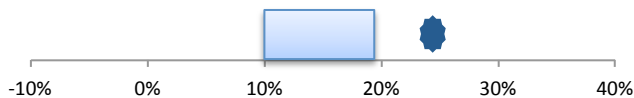
**What do they do?** Develop, create, and modify general computer applications software or specialized utility programs. Analyze user needs and develop software solutions. Design software or customize software for client use with the aim of optimizing operational efficiency. May work individually or coordinate database development as part of a team.

**People with these roles and responsibilities are also called:** Software Engineer, Application Integration Engineer, Programmer Analyst, Software Development Engineer, Software Architect, Software Developer, Technical Consultant, Applications Developer, Business Systems Analyst

**Some typical job duties include:**

- Design, develop and modify software systems, using scientific analysis and mathematical models to predict and measure outcomes.
- Develop and direct software system testing and validation procedures, programming, and documentation.
- Confer with systems analysts, engineers, programmers and others to design system and to obtain information on project limitations and capabilities, performance requirements and interfaces.
- Analyze user needs and software requirements to determine feasibility of design within time and cost constraints.

## Ohio Job Outlook "Faster than average" (+24.6%)



Projected % change in number of jobs by 2020

Note: Blue band = Average growth (10% to 19%)

National Job Outlook through 2020: 27.6%

## Most Important Occupational Skills

**BASIC SKILLS**

- Critical Thinking
- Active Listening
- Speaking

**SOCIAL SKILLS**

- Coordination
- Persuasion
- Social Perceptiveness

**PROBLEM SOLVING SKILLS**

- Complex Problem Solving

**TECHNICAL SKILLS**

- Programming
- Operations Analysis

**SYSTEMS SKILLS**

- Systems Analysis
- Systems Evaluation
- Judgment and Decision Making

**RESOURCE MANAGEMENT SKILLS**

- Time Management
- Mgmt of Personnel Resources
- Mgmt of Financial Resources

The most important skills required for performing this job well are underlined.

## How much did these jobs pay in 2013?

Average: \$80,590 per year  
(\$38.74 per hour)

## Career Pathway and Educational Requirements

Entry-level (\$50,000-\$80,000)

Managerial (\$60,000-\$100,000)

Executive (\$100,000+)

Application Programmer

Senior Application Programmer

Chief Technology Officer

**REQUIRED FOR ENTRY**

- Bachelor's degree
- Knowledge of specialized technologies

**REQUIRED FOR ADVANCEMENT**

- Bachelor's degree
- Knowledge of specialized technologies
- Multiple years related work experience

**REQUIRED FOR ADVANCEMENT**

- Post-graduate degree preferred
- Many years related work experience

**SOME CERTIFICATIONS THAT CAN HELP YOU ADVANCE:**

Microsoft Certified Technology Specialist – MCTS (Microsoft, available online)

Oracle Certification (Oracle, available online)