

# CAREER PATHWAY: 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 data-base 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.



## HOW MUCH DO THESE JOBS PAY IN OHIO?

**AVERAGE:**  
**\$89,200**

## MOST IMPORTANT OCCUPATIONAL SKILLS

**Basic Skills:** Critical Thinking, Active Listening, Speaking

**Social Skills:** Social Perceptiveness, Coordination, Persuasion

**Problem Solving Skills:** Complex Problem Solving

**Technical Skills:** Operations Analysis, Programming

**System Skills:** Judgment and Decision Making, Systems Analysis, Systems Evaluation

**Resource Management Skills:** Time Management, Management of Personnel Resources, Management of Financial Resources

## CAREER PATHWAY AND EDUCATIONAL REQUIREMENTS



## CERTIFICATIONS THAT CAN HELP YOU ADVANCE:

**Microsoft Certified Technology Specialist (MCTS)**  
*Microsoft*

**Oracle Certification**  
*Oracle*