

CAREER PATHWAY: SYSTEMS ENGINEER



What do they do? Design and develop solutions to complex applications problems, system administration issues, or network concerns. Perform systems management and integration functions.

People with these roles and responsibilities are also called: Systems Engineer, Electronic Data Interchange System Developer (EDI System Developer), System Architect

Some typical job duties include:

- Communicate with staff or clients to understand specific system requirements.
- Provide advice on project costs, design concepts, or design changes.
- Document design specifications, installation instructions, and other system-related information.
- Verify stability, interoperability, portability, security, or scalability of system architecture.
- Collaborate with engineers or software developers to select appropriate design solutions or ensure the compatibility of system components.



HOW MUCH DO THESE JOBS PAY IN OHIO?

AVERAGE:
\$79,340

MOST IMPORTANT OCCUPATIONAL SKILLS

Basic Skills: Active Listening, Critical Thinking, Reading Comprehension

Social Skills: Coordination, Instruction, 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

Entry-Level (\$50,000–\$80,000)

Systems Engineer

REQUIRED FOR ENTRY:

Bachelor's Degree or Equivalent Experience

Mid-Level (\$70,000–\$110,000)

Senior Systems Engineer

REQUIRED FOR ADVANCEMENT:

Bachelor's Degree, Project Management and Multiple Years Related Work Experience

Executive (\$100,000+)

**Chief Information Officer/
Chief Technology Officer**

REQUIRED FOR ADVANCEMENT:

Bachelor's Degree, Many Years Related Work Experience, Professional Certification

CERTIFICATIONS THAT CAN HELP YOU ADVANCE:

Systems Engineering Certification

International Council on Systems Engineering

Accredited Systems Engineer (ASE)

Hewlett Packard

Microsoft Certified IT Professional (MCITP)

Microsoft