

# SYSTEMS ENGINEER

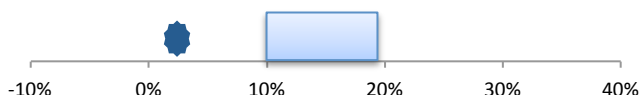
**What do they do?** Design and develop solutions to complex applications problems, system administration issues, or network concerns. Perform systems management and integration functions.

**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.

## Ohio Job Outlook "Slower than average" (+3.2%)



Projected % change in number of jobs by 2020

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

National Job Outlook through 2020: 5.9%

## 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

**SYSTEMS SKILLS**

- Systems Evaluation
- Systems Analysis
- 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: \$79,760 per year  
(\$38.35 per hour)

## Career Pathway and Educational Requirements

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

Mid-level (\$70,000-\$110,000)

Executive (\$100,000+)

Systems Engineer

Senior Systems Engineer

Chief Information Officer/  
Chief Technology Officer

**REQUIRED FOR ENTRY**

- Bachelor's degree or equivalent experience

**REQUIRED FOR ADVANCEMENT**

- Bachelor's degree
- Project management experience
- Multiple years related work experience

**REQUIRED FOR ADVANCEMENT**

- Bachelor's degree
- Many years related work experience
- Professional certifications

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

**Systems Engineering Certification** (International Council on Systems Engineering, unavailable online)

**Accredited Systems Engineer – ASE** (Hewlett Packard, available online)

**Microsoft Certified IT Professional – MCITP** (Microsoft, available online)