

# Computer Network Architects

SOC: 15-1241 • Career Profile Report

## ■ Key Facts

<b>\$130,390</b> Median Salary	<b>179,200</b> Employment	<b>+12.0%</b> Growth Rate
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## ■ Requirements & Salary Range

**Education:** Bachelor's degree

## ■ Automation Risk Assessment

**Low Risk** - 11.0% 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

**7.0/10** - Good work-life balance

## ■ Personality Fit (RIASEC)

Higher scores indicate better personality fit for this career type.

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

## ■ Top Skills Required

Analytical skills, Detail oriented, Interpersonal skills, Leadership skills, Organizational skills, Problem-solving skills

### ✓ Strengths

- High Demand
- Flexible Work
- Continuous Learning

### ■ Challenges

- Burnout Risk
- Rapid Technological Change

## ■ What They Do

Computer Network Architects typically perform the following tasks:

- Develop disaster recovery plans.
- Develop or recommend network security measures, such as firewalls, network security audits, or automated security probes.
- Develop and implement solutions for network problems.
- Maintain networks by performing activities such as file addition, deletion, or backup.
- Coordinate network operations, maintenance, repairs, or upgrades.
- Coordinate installation of new equipment.
- Monitor and analyze network performance and reports on data input or output to detect problems, identify inefficient use of computer resources, or perform capacity planning.
- Develop network-related documentation.
- Develop and write procedures for installation, use, or troubleshooting of communications hardware or software.
- Participate in network technology upgrade or expansion projects, including installation of hardware and software and integration testing.
- Design, build, or operate equipment configuration prototypes, including network hardware, software, servers, or server operation systems.
- Adjust network sizes to meet volume or capacity demands.
- Communicate with system users to ensure accounts are set up properly or to diagnose and solve operational problems.
- Develop conceptual, logical, or physical network designs.
- Evaluate network designs to determine whether customer requirements are met efficiently and effectively.
- Communicate with vendors to gather information about products, alert them to future needs, resolve problems, or address system maintenance issues.
- Develop plans or budgets for network equipment replacement.
- Communicate with customers, sales staff, or marketing staff to determine customer needs.
- Determine specific network hardware or software requirements, such as platforms, interfaces, bandwidths, or routine schemas.
- Prepare detailed network specifications, including diagrams, charts, equipment configurations, or recommended technologies.

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Source: <https://www.bls.gov/ooh/computer-and-information-technology/computer-network-architects.htm>