

Computer Network Architect

Information Technology
Series

Company Overview:

<Please insert a short paragraph talking about your company and what makes it unique. Include details that capture the core values, culture, and mission of your company, so job seekers clearly understand the environment in which they will be working.>

Job Summary and Responsibilities:

Computer network architects design and implement computer and information networks such as local area networks (LAN), wide area networks (WAN), intranets, extranets, and other data communications networks. Network architects may perform network modeling, analysis, and planning. Applicants should be proficient at collecting business requirements from multiple stakeholders and translating into actionable network designs. Ideally, applicants should be able to identify network issues (e.g., performance, cost, scalability) and resolve using the best available approach given current needs and technological options.

<Add any additional responsibilities or changes relevant to this role at your company.>

Required Competencies:

OCCUPATIONAL COMPETENCIES

- **General Networking Tools & Concepts:** Ability for enterprise-wide leadership to provide network support with commonly-used tools and devices including routers, switches, Ethernet, firewalls, frame relay, LAN, VPN, and WAN
- **Network Protocols:** Ability for enterprise-wide leadership to facilitate communications across DNS, DHCP, SMTP, SNMP, TCP/IP, and other common network protocols or services
- **General Information Security:** Ability to design, install, configure, troubleshoot, test, and maintain in a secure manner the portion of the IT environment under one's responsibility – potentially including networks, communication, hardware, software, and other devices – to ensure their confidentiality, integrity, and availability



FOUNDATIONAL COMPETENCIES

- **Active Learning:** Able to proactively gather needed information and insights to handle new or novel systems requests that reflect business needs; identifying and thinking about future business needs and infrastructure solutions for those needs; learning about new technologies and how they can be useful
- **Coordination:** Work with and coordinate stakeholders to develop optimal, workable solutions to business needs; keep stakeholders up-to-date (e.g., meetings, white board sessions, e-mails) and engaged; ensure alignment from beginning to end
- **Operations Analysis:** Analyzing business needs (e.g., cost, time, risk) and product requirements to create a design; able to analyze current infrastructure and current and future business needs to identify current or future infrastructure gaps and how those gaps can be closed over time

Find additional competencies for this role using Skillful's occupation deep dive at www.skillful.com/employers.

Preferred Competencies:

OCCUPATIONAL COMPETENCIES

System Design & Implementation: Ability to assist the business in the gathering of requirements and design, implement, and support very complex technology solutions to existing and future business problems.

FOUNDATIONAL COMPETENCIES

- **Systems Analysis:** Understanding how systems and individual components work including key elements such as data, databases, applications, and infrastructure; understanding the current system and how the system should work in the future given the businesses needs and technological options
- **Critical Thinking:** Using logic and reasoning to identify the best decision in a given situation by considering all the key issues at stake (e.g., cost, time, complexity, stability, supportability); identifying key risks, both for the current system and of potential changes, and managing and mitigating those risks.
- **Complex Problem Solving:** Able to think about multiple systems (e.g., data, databases, applications, infrastructure) and how they interact when solving problems; addressing needs and developing capabilities; considering people, process, technology, and risks when making decisions and tradeoffs; being mindful of risks



Example Activities:

- Work closely with clients, business analysts, and team members to understand business needs and requirements and be able to envision and implement an IT infrastructure that can meet those needs and requirements in a way that best balances the key considerations including cost, risk, flexibility and time-to-build among other
- Communicate with system users to ensure accounts are set up properly and diagnose and solve operational problems
- Coordinate network operations, maintenance, repairs, and upgrades.
- Develop or oversee the creation of network-related documentation.

Required Certifications:

<Note: Insert Required Certifications *but only if truly required.*>

Job Details:

- Location
- Department
- Job ID
- Classification
- Insert additional details of this position if applicable