

**Career Path - Network**  
**Last Updated - September 2010**

JCC Title	Qualifications	Grade	FLSA	JCC Number	Job summary (all job qualifications and responsibilities are cumulative in nature)
Network Administration - Associate	Bachelor's Degree in Computer Science or related field or equivalent mix of education and experience. 1 to 3 years of related experience in a technical support environment. Working knowledge of network concepts and services. Pursuing certification or demonstrates ability to complete network certification (e.g. Cisco Certified Network Associate or other related.)	57	Non-Exempt	3437	Assists in the administration, installation and maintenance of day –to-day operations of the local area network. Helps analyze and troubleshoot LAN problems and user reported network problems. Assists in the establishment of LAN procedures and documentation. Maintains LAN software and hardware inventories. Assists in the selection and implementation of network monitoring and security tools. Serves as a resource for staff and user community.
Network Operations Engineer	Bachelor's degree in Computer Science, Computer Engineering or related field or equivalent mix of education and experience. Certification (e.g. Cisco Certified Network Associate or other related) or equivalent knowledge and experience; 1 to 3 years experience deploying and supporting network technologies and services such as routing, switching, DNS, DHCP, 802.11 wireless LANs, TCP/IP, Ethernet, SNMP and VPN.  Preferred: Bachelor's degree in computer science or computer engineering; two more years experience deploying and supporting local and wide area networks, as well as experience configuring switches, routers and firewalls; experience deploying and managing wireless LAN equipment; experience with VoIP systems.	59	Exempt	3445	Responsible for deployment, configuration, maintenance and monitoring of LAN and WAN networks. Monitors network security and connectivity. Gathers information to evaluate network performance, troubleshoots network problems, identifies user needs and determines network requirements.
Senior Network Operations Engineer	Bachelor's degree in Computer Science, Computer Engineering or related field; or equivalent mix of education and experience; Certification (e.g. Cisco Certified Network Professional or related certification) or equivalent in knowledge and experience; 3 to 5 years experience deploying, and supporting network technologies and services such as routing, switching, DNS, DHCP, 802.11 wireless LANs, TCP/IP, Ethernet, SNMP, and VPN.  Preferred: Bachelor's degree in Computer Science, Computer Engineering or related field; Four or more years experience deploying and supporting local and wide-area networks, as well as experience configuring switches, routers, and firewalls; experience deploying and managing wireless LAN equipment; experience with VoIP systems; previous experience in a higher education environment.	61		3446	Responsible for deployment, configuration, maintenance and monitoring of LAN and WAN networks. Monitors network security and connectivity. Gathers information to evaluate network performance, troubleshoots network problems, identifies user needs and determines network requirements.

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Senior Network Design Engineer	<p>Bachelor's degree in Computer Science, Engineering or related field; Certification (e.g. Cisco Certified Network Associate/Design Associate or related) or equivalent in knowledge and experience; 4 years related experience engineering, deploying, and supporting network technologies and services such as routing, switching, DNS, DHCP, 802.11 wireless LANs, TCP/IP, Ethernet, SNMP, and VPN, including 1 year of network design experience</p> <p>Preferred: 5 or more years experience deploying local and wide area networks, as well as experience configuring switches, routers and firewalls; experience deploying and managing wireless LAN equipment; experience with VoIP systems.</p>	62	Exempt	3447	Responsible for the design, engineering, installation and maintenance of networks. Tests and evaluates systems such as LANs, WANs, the Internet, intranets or other data communication systems. Performs network modeling, analysis and planning to determine hardware and software solutions. Researches related products and makes hardware and software purchase recommendations, as well as addresses network issues regarding performance and security.
Principal Network Design Engineer	<p>Bachelor's degree in Computer Science, Engineering or related field; Certification (e.g. Cisco Certified Network Professional/Design Professional or related) or equivalent in knowledge and experience; 6 or more years experience designing, engineering, deploying, and supporting of network technologies and services such as routing, switching, DNS, DHCP, 802.11 wireless LANs, TCP/IP, Ethernet, SNMP, and VPN. Experience should include at least 3 years of network design experience</p> <p>Preferred: Master's degree in computer science, computer engineering or related field; 7 or more years of experience designing, engineering, deploying and maintaining local and wide-area networks, as well as experience configuring switches, routers, and firewalls; experience deploying and managing wireless LAN equipment; experience with VoIP systems; previous experience in a higher education environment preferred.</p>	64	Exempt	3448	Responsible for the design, engineering, deployment and maintenance of networks. Tests and evaluates systems such as LANs, WANs, the Internet, intranets or other data communication systems. Performs network modeling, analysis and planning to determine hardware and software solutions. Researches related products and makes hardware and software purchase recommendations, as well as addresses network issues regarding performance and security. May serve as a project lead on network projects. Provides direction and training to lower level staff.
Senior Principal Network Design Engineer	<p>Master's degree in Computer Science, Engineering or related field or equivalent in experience and education; Advanced certification (e.g. Cisco Certified Internetwork Expert or related) or equivalent in experience and education; 7 to 10 years experience designing, engineering, deploying, and maintaining network technologies and services such as routing, switching, DNS, DHCP, 802.11 wireless LANs, TCP/IP, Ethernet, SNMP, and VPN.</p> <p>Preferred: 10 or more years experience designing, engineering, deploying and maintaining local and wide-area networks, as well as experience configuring switches, routers, and firewalls. Experience deploying and managing wireless LAN equipment. Experience with VoIP systems. Experience in a higher education environment.</p>	66	Exempt	3449	Responsible for the design, engineering, deployment and maintenance of networks. Designs network architecture, selects network infrastructure components, and plans and designs LAN/WAN solutions. Identifies needs and sets engineering priorities. This role is recognized as the key contributor to technical and architectural leadership and planning for networks.

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