



PATUAKHALI SCIENCE AND TECHNOLOGY UNIVERSITY

COURSE CODE CCE 314
Computer Networks Sessional

SUBMITTED TO:

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Assignment title: **Research IT and Networking Job Opportunities**

Date of submission: **09 Tue, 2025**

1. What job titles did you search for?

1. Network Administrator
2. Networking
3. Network Engineer
4. Asst. Network Engineer
5. Network Engineer: Technology
6. Sr. Network Engineer- Technical Support
7. Senior NOC Engineer
8. Support Engineer - For Noc RDP Network
9. Sr. Engineer/ Engineer- Network Automation under IP Transmission Network
10. Network Engineer/Senior Network Engineer (ISP)
11. Senior System Engineer/ System Engineer * Technician/Network specialist

2. What skills or certifications were required?

1. Cisco certifications in Network Professional, Design Professional, Security Professional, and Voice Professional domains
2. Knowledge of the OSI model and data flow
3. Expertise in network infrastructure, including DMARC to workstations, fiber distribution, routers, switches, DHCP, and topology
4. Network Engineering with expertise in NetScaler ADCs
5. 8570 IAT-II Certification (one of the following): CCNA Security, CySA+, GICSP, GSEC, Security+CE, SSCP, CASP+CE, CCNP Security, CISA, CISSP (or Associate), GCED, GCIH
6. Cisco Certified Network Professional (CCNP), Cisco Certified Wireless Professional (CCWP), or other relevant Telecommunication Engineer Senior Cisco certifications.
7. TCP/IP & OSI Layer basics, LAN/WAN Concept, Port/IP/MAC addressing, IP Subnetting & IP Planning, NAT, DHCP, DNS, ARP, LAN, VLAN & Trunk, MAC Table, Switching Loop concept, Network routing basics (static, OSPF, BGP), router's routing table, router firewall, access list deployment, CCNA, MTCNA, enterprise network management, IP Network protocols, security control, monitoring tools (Catci, Nagios), Data Center active devices, Data backup and restore system, security best practices.

3. Did you find any jobs that you previously did not know existed? If so, what were they?

1. Resident Network Engineering
2. Sr. Engineer/ Engineer- Network Automation under IP Transmission Network
3. Assistant Network Engineer (POP Incharge)

4. Did you find any jobs that you are interested in? If so, which ones and what skills or certifications do they require?

1. Network engineer (remote)
2. Server maintenance