

University of Virginia Job Summary

Job Code:	Job Title:	Telecommunications Engineer III
UVA Survey Code:	UVA Survey Code Title:	
Pay Band:	Career Path:	Network and Communication Field Engineering
FLSA Status:	Management or Individual Contributor:	Individual Contributor

Position Summary: Describe below the primary purpose and function of this job.

Evaluate, install and maintain data, voice and video telecommunication networks including edge network hardware, UPSs, redundant power and network monitoring applications; install firewalls and VPNs in building wiring facilities; may manage technicians or contractors installing network cabling and network jacks. Assist in the planning and installation of new network infrastructure for new locations or upgrades to building networks, working closely with core network engineers and analysts. Troubleshoot and resolve building network outages. Secure building network facilities and equipment.

Key Roles & Responsibilities: List up to 6 key roles and responsibilities of this job.

1. Review and analyze trouble reports generated by end users/customers or system generated alarms, error codes and trouble reports; work with end users, peers, vendors, and contractors to determine nature of reported trouble and appropriate courses of action for problem resolution; dispatch or schedule repair technicians as required; track, log and otherwise administer trouble reports to ensure proper deployment of technician resources and closure of trouble tickets/reports as well as provide MIS reporting information for all trouble reports received and acted upon; develop, recommend and implement repair reporting procedures and processes to ensure repair response times are consistently met and resources are used in an efficient and effective manner.
2. Acquire, install, configure and maintain network hardware devices for University buildings and remote locations including network switches and UPSs. Install firewalls and VPN appliances in coordination with network engineers Perform network monitoring/management for building network infrastructure. Perform network troubleshooting using tools and diagnostic skills (remote access, central monitors, sniffers). Perform administration tasks on the edge network devices.
3. Provide various telecommunications technical specifications to peers, vendors, or contractors as required; make recommendations on improvements in edge network switch and power installation, configuration, monitoring and management.
4. Analyze the needs of the departments and recommends solutions. Consult with other engineers, technical support personnel, vendors, consultants or contractors to assist in customer needs analysis and determine best practice or solution.
5. Manage work orders and provide prompt technical resolutions.
6. Train junior level personnel.

Expertise: Describe the requirement for knowledge and expertise about the subject area as well as how various parts of the University work together to achieve objectives. Explain the degree of understanding required of the industry and university environment.

Incumbent is required to have an in-depth understanding of his/her discipline including all required certifications as well as an in-depth understanding of the business environment of a large university system. Incumbent must demonstrate an understanding of the University system, its policies, and its operating procedures. Incumbent is expected to maintain currency of knowledge with respect to relevant state-of-the-art technology, equipment, and/or systems.

Incumbent should have sound knowledge of electronics, power management, networking concepts, network architecture, protocols, and IP address allocation; CAD/CAM software; diagnostic tools; disaster recovery procedures and protocols and current technological developments/trends in area of expertise. Incumbent must have the ability to analyze operational requirements and assess telecommunications technology and capacity requirements; to implement, test, troubleshoot, and maintain building telecommunications hardware and configurations.

Problem Solving: Describe the nature and complexity of the problems this position encounters on a recurring basis. Include information regarding the level of innovation required, if any, and include mention of environmental factors that may add to the complexity of resolving issues.

Incumbent will address complex problems and will use experience and judgment in selecting among authorized procedures. Incumbent seeks assistance when significant deviations are proposed, or when unprecedented problems arise. Incumbent assists senior staff in developing approaches to problem-solving and anticipating issues.

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Nature & Area of Impact: To what degree does this job affect the University (i.e., through interactions with faculty or students, making decisions, defining or setting strategy, etc.)? What is the breadth of the impact that this job has, either positive or negative (i.e., affects own team, department, function, business unit, entire university, etc.)?

Impact is felt within the team/department for which the incumbent works and may be felt within multiple, coordinating departments. Work quality, decision-making and long-term project management can affect the productivity of students, faculty and/or staff. Impact of errors can be substantial and/or university-wide.

Interactions / Interpersonal Skills: Describe the nature and level of interactions this job has with others, both internally and externally. Explain any specific interpersonal skills necessary to successfully perform this role (i.e., negotiation skills, represents business at external events or to governmental bodies, etc.).

Interactions are with fellow team members and coordinating team members, but the incumbent will also have interactions with assigned student, faculty, or staff clients. Incumbent works with external vendors or service providers. Incumbent should possess good verbal and written communication skills to convey technical guidance and information to users and to provide excellent customer service. Incumbent will train and provide guidance to more junior staff members.

Distinguishing Characteristics

This is the career-level for the discipline. All incumbents who have demonstrated proficiency and satisfactory performance in the discipline are expected to reach this level eventually. Incumbent possesses all requirements and skills for Level 2 and has achieved proficiency in the typical tasks assigned to Level 2.

- **Skills:** Distinguished from Level 2 skills in that the Level 3 incumbent has fully developed his/her technical skills and has begun to acquire advanced skills.
- **Level of Work:** Distinguished from Level 2 work by activities that are more complex and the latitude to apply skills to solve most problems without review. Assignments at Level 3 are longer-term and the incumbent has latitude to devise the approach and method to performing the assignment.
- **Supervision:** Distinguished from Level 2 by the types and duration of assignments. Level 3 incumbents are no longer expected to perform routine activities and the incumbent will regularly perform long-term or non-routine assignments with minimal supervisory intervention. Also distinguished from Level 2 in that the incumbent serves as a resource to Level 1 and 2 incumbents on non-routine problems. Level 3 incumbents will often train Level 1 and 2 incumbents on work processes and policies.
- **Interactions:** Distinguished from Level 2 in that the Level 3 incumbent regularly works beyond his/her own team and at times, externally. The Level 3 incumbent works with related teams, client groups, management and vendors.
- **Focus:** Distinguished from Level 2 in that the Level 3 incumbent regularly works toward specific team goals and assists clients in achieving their team's goals.

Job Requirements And Qualifications: Indicate the minimum and preferred education and experience for this job and any licenses and certifications required.

Minimum Education: Associate's Degree in related discipline or the equivalent combination of education and experience

Preferred Education: Associate's Degree in related discipline.

Minimum Experience: 3-5 years

Preferred Experience: 5-7 years

Required Licenses/Certifications: