

## Network Engineering Technician

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<b>Position:</b>	Network Engineering Technician	<b>Type:</b>	Full Time
<b>Hiring Mgr:</b>	Director Network Engineering	<b>Onsite Status:</b>	Onsite
<b>Location:</b>	Kingston, NY	<b>Date Added:</b>	Feb 7, 2024

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### Position Summary

The Network Engineering Technician is part of Archtop Fiber's Engineering & Technology group and will support our IP access and Core network engineering needs. This position will work closely with the Director Network Engineering and others to support our advanced communications service provider and 100% fiber optic network. The Network Engineering Technician will be an integral team member working to support the testing and validation of Archtop's IP/SR-MPLS backbone, XGS-PON access layer, and transport infrastructure expansions and upgrades related to our multi-state fiber optic network. Strong focus on documentation, testing, and results analysis of evaluation gear. As well as design changes and procedures.

### What you'll do:

- Assist in the building, management, and maintenance of Archtop's Network Engineering lab to support all users, and stakeholders.
- Focus on lab validation and testing of new devices, designs, and procedures.
- Maintain detailed documentation of test results and equipment evaluation.
- Provide turnup and test information for new network builds and augmentations.
- Support testing of process documentation, and support as needed to other teams for implementation, troubleshooting, and repair of network connections in lab and pre-production environments.
- Participate in support of equipment/materials vendor selection and maintain strong relationships with Archtop's vendors.
- Supporting a resilient network design approach that ensures redundancy and rapid failover.
- Validate customer service configurations via network automation and low-touch provisioning. Work collectively with Network Operations to ensure that configurations align with and meet the needs of provision platforms.
- Testing security requirements that align with Archtop's carrier-class network requirements, including protection against flooding, denial of service, etc.
- Ensure results of proper traffic management and optimization - traffic shaping, classification, policing, queuing, scheduling, etc.
- Assist Network Operations team objectives such as network management/element management, performance measurement, fault management, access security, and others.
- Support technical product development and deployment, including Proof of Concept testing procedures with no predetermined bias. Carry out Alpha and Beta testing by working with Network Operations team members and others.
- Assimilate, analyze, and correlate large amounts of forensic data from various network devices, operating systems, applications, security devices, logs, and alerts by leveraging analytical and problem-solving skills.

## What you'll bring:

- Associate degree in network administration, information technology, or equivalent experience. Equivalent professional experience also considered.
- Associate level certification (CRS-A, CCNA, JNCIA) preferred.
- Network, Transport and Telco gear installation experience, including rack and stack, power, cable management and labeling.
- Experience running test plans and recording Device Under Test results.
- Familiarity with test tools and software such as iPerf, Nmap, ethernet test sets, and traffic generators.
- Working knowledge of all aspects of OSI layers 1-4.
- Knowledge of eBGP, iBGP, ISIS, MPLS, RPKI; Segment Routing is a plus.
- Familiar with FTTx design and PON access technology GPON, XGSPON, OLT, and ONU.
- Awareness of End to End QOS, Layer 2 QOS, and Layer 3 QOS.
- Knowledge of network tools and protocols including SNMP, TACACS+, radius, syslog, DHCP, VLANs, Spanning Tree, EVPN, VPLS, IPsec, Pseudowire, VRFs, MC-LAG, EV-LAG, DNS, NAT, CGN, TCP/IP, FQDN, SIP, MGCP, RTP, NTP, PTP, and others.
- Knowledge of network operating systems, such as SAOS, IOS-XR, or JUNOS.
- Familiarity of optical transport solutions, including coherent optics, passive muxes, amplification, RON, ROADM, and DWDM. Must stay current on fast changing optical transport technologies and methodologies.
- Firewall and VPN experience is a plus.
- Must have a strong focus on quality and network sustainability (99.999% up time).
- Applicants must be a US citizen.
- Maintain a valid state driver's license and safe driving record.

## What we offer (acquisition specific):

- Competitive salary – range for this opportunity is \$65k to \$75k
- Heavily subsidized medical, dental, and vision
- Holidays, PTO, and Flexible work schedules
- 401(k) w generous match
- Employee Assistance Program (EAP)
- Life insurance, short- & long-term disability insurance
- Employee Referral Program
- Employee discount programs

Archtop Fiber is proud to be an Equal Opportunity Employer. We celebrate diversity and are committed to creating a welcoming and inclusive environment for all.

Please apply directly [Careers@Archtopfiber.com](mailto:Careers@Archtopfiber.com)