

## Atlantic Broadband Job Description

**Job Title:** Carrier Network Engineer

**Department:** Infrastructure Engineering

**Reports To:** Manager of Network Engineering

**Location:** Rochester, NH

**FLSA Status:** Exempt

**Prepared By:** Human Resources

**Prepared Date:** 22 February 2019

**Approved By:** Corey Foster, Manager of Network Engineering

**Approved Date:** 22 February 2019

### Core Job Responsibilities:

This position is responsible for assisting the Manager of Network Engineering with all Pre and Post sales engineering operations, maintenances and installations for the networking infrastructure at Atlantic Broadband.

- Provide technical guidance and installation support for all aspects of sales engineered solutions.
- Will work closely with all Atlantic Broadband sales teams for all Pre and Post sales related functions.
- Day-to-day installation, operation and configuration of Cisco ME 3400 Series Network Interface Devices.
- Day-to-day installation, operation and configuration of Fujitsu FW5300 Series Network Interface Devices.
- Day to day operation of Brocade Multiservice Routers (MLXe).
- Day to day operation of Brocade Multiservice Carrier Ethernet Switch Equipment (CES).
- Day to day operation of Cisco Aggregation Services Routers (ASR).
- Day-to-day operation of JDSU optical testing equipment. Base Models include TB5800, TB6000, TB8000, ETB2000T and OLP-38. Modules include OTDR, AP, PMD, CD and OSA.
- Day-to-day operation of JDSU P5000i Digital Analysis Microscope and FiberChekPRO Analysis Software.
- Participation in a 24x7 on call rotation.
- Participation in a structured change management process.
- Occasional night and weekend shifts are required in order to implement changes during designated change windows.
- Documentation of all sales engineered network designs, configurations and circuit detail records.
- Providing professional support to customers both internal and external.
- Other duties as required.

### Job Qualifications, Certificates, Licenses and/or Knowledge and Experience:

- Bachelor's degree in an Information Technology area or equivalent experience.
- Minimum 5-10 years' experience required as a Network Engineer or Network Engineer Lead/Supervisor.
- Cisco CCNP certification preferred.
- Extensive knowledge of switching technologies (802.1Q, STP, RSTP, PVST+ etc) required.
- Extensive knowledge of routing protocols including OSPF and BGP required.
- Knowledge of MPLS required.
- Knowledge of IPv6 required.
- Knowledge of TCP/IP, UDP and ICMP are required.
- Working knowledge of Corning SMF-28, SMF-28e+, LEAF and Multimode Optical Fiber required.
- Knowledge of optical fiber microscope inspection and cleaning procedures required.
- Knowledge of base level fiber characterization best practices for OTDR with pulse suppression cable assemblies required.
- Knowledge of DWDM based transport solutions required.
- Knowledge of 1, 10 and 100Gbps Ethernet required.
- Knowledge of SONET a plus.
- Working knowledge of firewall technologies and the ability to generate basic rule sets required.
- Experience in implementing scalable redundant networks required.
- Knowledge of multicast routing protocols such as PIM as well as IGMPv1, v2 and v3 a plus.
- Knowledge of wireless Ethernet technologies (802.11a, 802.11b, 802.11g, 802.1x) a plus.
- Working knowledge of Sun Solaris, Red Hat Linux or CentOS Linux a plus.
- Ability to thrive in a dynamic, fast-paced environment.

- Ability to work under pressure with a diverse team.
- Ability to work under minimal supervision.

**Education and/or Experience:**

- Bachelor's degree in an Information Technology area or equivalent combination of training and/or experience.
- Minimum 8-10 years' experience required as a Network Engineer.

**Other Qualifications and/or Duties:**

- Ability to work under pressure with a diverse team.
- Ability to work under minimal supervision.
- Valid driver's license, with proven good record within Atlantic Broadband guidelines.
- Attendance and punctuality are both essential functions of this position.
- Travel required.
- Other duties as required.

**Physical Demands:** The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

While performing the duties of this job, the employee is regularly required to sit and talk or hear. The employee is occasionally required to use hands to finger, handle, or feel and reach with hands and arms. Specific vision abilities required by this job include close vision and ability to adjust focus.

**Work Environment:** The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

The noise level in the work environment is usually moderate.

If interested, you should notify your supervisor and send your resume to: Atlantic Broadband, 21 Jarvis Avenue, Rochester, NH 03868 Attn: Manager of Network Engineering.