



## **FairPoint Communications Job Description**

<b>Job Code:</b>	10671
<b>Job Title:</b>	Engineer Senior Network Architect
<b>Career Band:</b>	BEP
<b>Department:</b>	Broadband & Access Engineering
<b>Reports to:</b>	Vice President – Broadband & Access Engineering
<b>FLSA Status:</b>	EX
<b>Wage Code</b>	10
<b>EEO Classification:</b>	30
<b>Prepared By &amp; Date:</b>	M. Brown 11/13/08; updated by J. Lunny 3/25/10

### **Job Summary**

As the company's most senior technical advisor, the Senior Network Engineer/Architect provides technical expertise, strategic planning and recommendations to executive management for new technologies and network applications in response to business needs. The Senior Network Engineer/Architect works with internal partners to evaluate and design solutions for business and customer requirements which will integrate with and enhance the network.

The Sr. Network Engineer/Architect applies complex design principles and methodology to ensure cost-effective and optimal use of resources and technology without jeopardizing network integrity.

### **Essential Duties and Responsibilities**

- Evaluate alternative technologies and architectures in relation to FairPoint Communications' infrastructure needs. Interface with management and vendors to develop and implement new solutions to meet business requirements.
- Design and manage the rollout of critical network infrastructures to support FairPoint Communications' products and services, on both a strategic (long term) and tactical (immediate term) level.
- Perform analytical, technical, cost analysis and CAPEX development work in the planning, design, installation and on-going administration and management of FairPoint Communications' core data networks.
- Ensure that network infrastructure is fully documented and performing as required for internal and customer SLA guarantees and expectations by means of specific metrics and measurements.

- Provide technical expertise to Product Development to develop new product strategies and enhance existing product sets.

### **Additional Duties**

Contributes to departmental activities and programs by accomplishing related tasks as needed.

### **Knowledge, Skills and Abilities**

- Demonstrated in-depth knowledge of LAN/WAN support and engineering design for voice, data and video networks at Access, Aggregation, and Core network locations
- General Knowledge of best practices with Telephony Switch networks using switching interfaces such as GR-303 and TR-08. Also knowledge of SS7, AIN, LNP, etc.
- Thorough understanding of modern service provider TCP/IP data networks using standards and technologies including but not limited to: MPLS, IS-IS, OSPF, BGP4, STP, RSTP, 802.1q, 802.1ah, ADSL2+
- Superior knowledge, skills and experience with Cisco routing hardware, software, protocols etc.
- Strong working knowledge of structured cabling systems, network facilities, electrical, UPS, etc.
- Ability to work alone as an individual contributor, as a technical lead and as a participant in a team environment.
- Router, Switch and IP configuration experience is required

### **Education/Experience**

Bachelor of Science degree in Computer Science or Network Engineering with five or more years directly related experience in a telecommunications service provider network. (Proven technical experience may be substituted for educational requirement)

### **Physical Demands and Work Environment:**

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 frequently required to sit, talk on the telephone, and use hands to finger, handle or feel/reach with hands and arms. Specific vision abilities required by this job include close vision and frequent use of computer screens. Occasionally the incumbent may lift up to 30 pounds. The incumbent works primarily in an office environment. There is high potential for fatigue and stress resulting from accomplishment of job duties. The noise level in the work environment is usually quiet.

*FairPoint Communications reserves the right to change or revise duties and responsibilities as the need arises. This document is not a written or implied contract of employment.*