Position:
Telecommunications Engineer

Reports To:
Engineering Manager

Location:
Salt Lake City, Utah or Boise, Idaho

Status:
Full Time, Exempt

General Summary:
Primary responsibilities include the engineering, upgrade, technical oversight, and support for our optical and electrical transport networks including the DWDM, SONET, and TDM network infrastructures, equipment, and services. This position can be located in either Salt Lake City, Utah or at the company headquarters in Boise, Idaho.

Essential Job Functions:

• Network planning and design including network protection schemes, network synchronization, and bandwidth availability and utilization.
• Circuit design as per customer specifications including circuit protection, transport network selection, and interworking across networks.
• Capacity planning and management of available and utilized bandwidth on the DWDM, SONET, and TDM networks.
• Planning, selection, upgrade, and evaluation of the networking equipment used in the DWDM, SONET, and TDM networks.
• Research and investigation of new DWDM, SONET, and TDM network elements and features.
• Optical link loss-budget analysis and management for the DWDM and SONET networks.
• Network synchronization design, upgrade, and maintenance.
• Provide Tier 3 technical support for diagnosing and resolving DWDM, SONET, TDM, and customer equipment issues.
• Provide technical support for circuit interconnections with LECS, ILECS, and IXCs.
• Provide technical support for the network surveillance, provisioning, installation and repair, outside plant, sales, sales engineering, and marketing departments.
• Provide the planning, implementation, and coordination of DWDM, SONET, and TDM network maintenance and restoration activities.
• Provide engineering support during the installation and turn up of DWDM, SONET, and TDM network elements and CPE.
• Develop and maintain technical documentation and database information for the DWDM, SONET, and TDM networks and circuits.
Knowledge, Skills, and Abilities:

- Knowledge and experience with DWDM, SONET, and TDM networks, network elements, circuits, and maintenance.
  - Required knowledge and experience with 100GHz spaced DWDM network elements and transmission systems.
  - Required knowledge and experience with SONET networks, SONET network elements, and SONET carriers and signals including VT1.5, STS-1, STS-3c, STS-12c, STS-48c, OC-3, OC-12, OC-48, and OC192.
  - Required knowledge and experience with TDM networks, TDM network elements, and TDM signals including DS1, and DS3.
  - Required knowledge and experience with ATM networks, ATM network elements, and ATM adaptation layers including AAL1 and AAL5.
  - Knowledge and experience with the PSTN and traditional telephone switching systems.
- Knowledge and experience with video transport and distribution is desired.
- Experience with researching, investigating, evaluating, and qualifying potential new equipment for network deployment.
- Knowledge and background with AC and DC power systems, fiber optic transmission and transmission systems, and electrical cabling and transmission systems.
- Experience with optical link loss budget analysis for DWDM and SONET optical links.
- Proven problem solving skills with experience and background in solving complex design, network, and circuit problems and issues.
- Good organizational and time management skills including the ability to organize, prioritize, and articulate job tasks and complete the tasks on time and on budget.
- A proven business sense with the ability to discern, evaluate, and articulate the cost trade-offs associated with various network and circuit implementations.
- Knowledge and experience with network synchronization and timing distribution.
- Knowledge and experience with telecommunications standards including Telcordia, ANSI, and ITU.
- Knowledge and experience with Microsoft software applications including Microsoft Word, Excel, Power Point, Visio, and Outlook.
- Knowledge of NECA and Rural IOC operations is desirable.
- Proven ability to engage with and communicate with customers, vendors, service providers, employees, and various business contacts in a professional and courteous manner.
- The ability to work “on-call” and off-shift hours as required to support network and equipment maintenance, upgrades, and service interruptions.

Education and Experience:

- Three years of experience (minimum) performing as a network engineer, with a minimum of five years of experience in telecommunications.
- Bachelors of Science Degree in Computer Science, Electrical Engineering, Information Systems, or Telecommunications is desired.
How to apply:

If you are qualified and interested in this position, please send your cover letter and resume to: resumes@syringanetworks.net or fax to (208) 229-6110 Attn: Human Resources

About Syringa Networks:

Syringa Networks specializes in custom network solutions for businesses, providing a wide range of networking services throughout the region. Delivered over a purpose-built self-healing fiber optic network, services are available at a range of speeds from T1 to OC-192 and Ethernet at data rates ranging from 1 Megabit (Mb) to 10 Gigabits (Gbs). The regional company also offers Dedicated Internet Access (DIA), MPLS, SONET, DWDM, ATM/Frame, Fiber-to-the-Tower, and Network Equipment sales.

Syringa Networks is a privately held Idaho corporation and is headquartered in Boise, Idaho, with additional offices in Idaho Falls, Idaho, and West Valley City, Utah.

This job description in no way states or implies that these are the only duties to be performed by the employee. He or she will be required to follow any other instructions and to perform any other duties requested by his or her supervisor. In accordance with the American with Disabilities Act, it is possible that requirements may be modified to reasonably accommodate disabled individuals. However, no accommodations will be made which may pose serious health or safety risks to the employee or others and which impose undue hardships on the organization. Furthermore, job descriptions are not intended as and do not create employment contracts. The organization maintains its status as an at-will employer. Employees can be terminated for any reason not prohibited by law.