Network Engineer

Department	Information Technology - Network Services
FLSA Status	Exempt
Reports to:	Chief Technology Officer

JOB SUMMARY

The Network Engineer provides engineering and support services to LEARN (Lonestar Education and Research Network) customers and members with a focus on the successful operation of a high-speed Wide Area Network (WAN) and ISP environment consisting of optical transport, network routers, switches, and firewalls.

ESSENTIAL FUNCTIONS

- Provide project planning, implementation and successful execution of projects including technical network design and develop detailed network documentation.
- Isolate and diagnose root causes of hardware and software issues and develop and carry out a plan of action for timely problem resolution.
- Design and implement advanced configuration of network routers, switches, and firewalls.
- Design and implement advanced configuration of network management tools and systems.
- Interact and collaborate with vendors and contractors for product/platform evaluation, technical implementation, and planning, and procuring network products and services.
- Develop, implement, and maintain standard operational procedures and established standards.

OTHER DUTIES

- Works in a small team environment with significant interaction with members ranging from K-12, higher education, and other networks.
- Frequent interaction with network, fiber, and service providers; other regional and national networks; content & cloud/application & infrastructure providers.

This job description is not designated to cover or contain a comprehensive listing of activities, duties or responsibilities that are required of the employee for this job. Duties, responsibilities, and activities may change at any time with or without notice.

EDUCATION & EXPERIENCE

- Bachelor's degree + 3 years' experience or 7 years of equivalent combination of education and experience
- Network Engineering certifications preferred.
- Proven experience with advanced service provider and WAN router configurations utilizing logical systems, BGP in a multi-homed environment, IPv4, IPv6, ISIS, OSPF, MPLS, LACP, LDP, L2 and L3 VPN, VPLS, EVPN, QoS, 802.1q, 802.1p and IP Multicasting technologies.
- A working knowledge of networking protocols, with a thorough understanding of TCP/IP, IPv4/v6 address management, and DNS.
- Experience with next-generation firewalls and security devices.
- Proven working experience with network routers and switches is required.
- Proven experience with network management and monitoring systems (ex: PerfSonar, NetBox, LibreNMS, Rancid, etc.) and diagnostic tools commonly used within the service provider networks.
- Linux or BSD system administration skills.
- Fiber optic wiring and transceiver troubleshooting knowledge and operating network test equipment.

KNOWLEDGE, SKILLS & ABILITIES

- Demonstrated team building abilities.
- Demonstrated record of taking initiative to solve technical and logistical issues.
- Proven oral and written communication skills including the use of collaboration suite of tools.
- Proven project development & implementation skills; network documentation experience and skills.
- Familiarity with co-location and Internet Exchange point practices and policies.
- Prior experience working with Research and Education networks.
- Knowledge of fiber optic technologies and Layer1 protocols & technologies.

PHYSICAL DEMANDS & 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.

- Position Location: Strong preference is for this position to be based in the Dallas Metro area and operate from a home office in a virtual office environment. Work outside of an established schedule and working hours, including weekends and holidays, may be required.

- Travel Requirements: Frequent travel (up to 50%) is expected for this role. Travel includes visiting existing and future member venues and LEARN sites throughout Texas as well as to Regional & National meetings and conferences in North America. Some overnight travel (up to 25%) is expected.
- Position requires reliable transportation, valid TX driver's license and ability to travel by car or air.
- On-call availability for resolving network emergencies, both during regular and off-hours.
- Emergency on-call availability 24x7x365
- This role requires prolonged sitting and working on a computer in a home office setting.
- Regularly required to stand, walk, sit, use hands; and reach with hands and arms.
- Dexterity of hands and fingers to operate a computer keyboard, mouse, power tools, and to handle other computer components.
- Lifting and transporting of moderately heavy objects, such as network switches, servers, computers, and peripherals
- Specific vision abilities required by the job include close vision, distance vision, color vision, peripheral vision, depth perception, and the ability to adjust focus.

To apply for this job, please submit a cover letter, resume, and application (found on the next page) in PDF format to jobs@tx-learn.net with "Network Engineer" as the subject line.

LEARN
LONESTAR EDUCATION AND RESEARCH NETWORK

APPLICATION FOR EMPLOYMENT

ANSWER ALL QUESTIONS - PLEASE PRINT

Applicant's Name (Last) (First) (Middle)* | Date of Application

Are you known by any other names or aliases, including a maiden name?*   Yes   No   If Yes, what name(s) are you known by?

Applicant's Current Address (Address, City, State, Zip)*

Applicant's Email Address

Telephone | Date Available for Work

Position(s) Applied For (List Job Titles) | Status Desired
Full Time   Part Time   Temporary

Referral Source   Advertisement   Employment Agency _____   College/Career Placement Office

Job Fair   Employee   Other

Have you filed an application or been employed here before?   Yes   No   If yes give date(s)

Are you 18 years of age or older?   Yes   No | Are you eligible to be lawfully employed in the United States (proof of citizenship or immigration status will be required upon employment)?   Yes   No

Do you now, or will you in the future, require sponsorship for employment visa status (e.g., H-1B visa status, etc.) to work legally for our Company in the United States?   Yes   No

List any friends or relatives employed by the company.

What is the relationship?

Have you ever been convicted of a felony?   Yes   No

If yes, provide all detail**
**Conviction of a crime will not automatically disqualify you from employment.

EMPLOYMENT EXPERIENCE (List relevant work experience. Start with your present or last job. Include military service assignments and volunteer activities)

Date From/To	Employer Name		Employer Address		
	Employer Phone Number	Job Title	Starting Salary / Hrly Rate		Final Salary / Hrly Rate
1	Supervisor	Reason for Leaving			
	Work Performed			May we contact Yes No	
	Are you known by another name Yes No If yes, What name?				

Date From/To	Employer Name		Employer Address		
	Employer Phone Number	Job Title	Starting Salary/ Hrly Rate		Final Salary/ Hrly Rate
2	Supervisor	Reason for Leaving			
	Work Performed			May we contact Yes No	
	Are you known by another name Yes No If yes, What name?				

Date From/To	Employer Name	Employer Address		
	Employer Phone Number	Job Title	Starting Salary/ Hrly Rate	Final Salary/ Hrly Rate
3	Supervisor	Reason for Leaving		
	Work Performed		May we contact Yes No	
	Are you known by another name Yes No If yes, What name?			
Date From/To	Employer Name		Employer Address	
	Employer Phone Number	Job Title	Starting Salary/ Hrly Rate	Final Salary/ Hrly Rate
4	Supervisor	Reason for Leaving		
	Work Performed		May we contact Yes No	
	Are you known by another name or do you have a maiden name? Yes No If yes, What name?			

REFERENCES (List professional references only. Do not list friends or relatives)

Name and Title	Email Address / Phone Number

Education	Name and Address of School	Course of Study	Did you Graduate?	List Diploma / Degree
High School				
College				
Other (Specify)				

PRE-EMPLOYMENT STATEMENT

I represent that my responses set forth in this application are truthful, accurate, and complete. Any and all false or inaccurate statements made by me in this Application or otherwise during the employment evaluation process shall be grounds both for rejecting my Application for employment , and, should I be hired by LEARN, termination of my employment.

I authorize representatives of LEARN to contact education institutions and employers designated in this Application for purposes of verification and investigation of my education and employment background and performance. Such individuals and organizations are authorized to release all such persons from liability or damages incurred as a result of furnishing such information. I understand that an unsatisfactory reference shall be grounds both for rejecting my Application for employment, and should I be hired by LEARN, termination of my employment. Should I be employed by LEARN, I understand that I could be subject to an outside probe if accused of wrongdoing.

Submission of the application does not entitle me to be interviewed by LEARN. Further, nothing in this Application or in the employment evaluation process shall be construed as either an offer of employment or an obligation on the part of LEARN to provide any benefit to me. Should I be employed by LEARN, I agree to comply with any and all employment rules and policies of LEARN.

After reading all of the terms of this Application, I hereby affirm that I understand and agree to the provisions of the same. I also agree that my employment with LEARN is on an "at-will" basis, meaning that such employment may be permanently discontinued by either LEARN (through discharge or layoff) or myself through voluntarily quitting at any time without notice and without any recourse of any kind by either party.

I affirm the information in this application is true and complete, and any intentional deception herein may be considered sufficient cause for dismissal.

_____   _____
Date*   **Applicant's Signature***

***Required**