LEARN Network, Systems & Software Engineer

Posting Details

Salary Range	Dependent on Qualifications
Pay Basis	Monthly
Position Status	Regular full-time
Location	DFW Area
Job Summary	The Lonestar Education And Research Network (LEARN) is a consortium of 41 organizations throughout Texas that includes public and private institutions of higher education, community colleges, the National Weather Service, and K-12 public schools. The consortium, organized as a 501(c)3, connects these organizations, and over 500 affiliated organizations, together with high performance optical network services to support their research, education, healthcare and public service missions. LEARN also provides connectivity to a global research network through Internet2 and other networks, and commercial Internet services (CIS) in partnership with service providers to its members. This position will install, configure, and support an organization's local area network (LAN), wide area network (WAN), and cyber infrastructure. Monitor network and cyber infrastructure to ensure network availability to all users and may perform necessary maintenance to support network availability. May monitor and test application performance to ensure applications operate correctly and without interruption. May assist in network modeling, analysis, planning, and coordination between network and data communications hardware and software. May develop custom software to support the organization's network and cyber infrastructure. May administer network security measures. Position Location: This position requires the candidate to report to an office on the UT Dallas campus in Richardson, TX and a home office as necessary. Travel Requirements: Some travel to locations throughout Texas and some national travel, as required.
Minimum Education and Experience	Bachelor's degree in computer science, engineering, or related field. Combination of education and experience to equal eight years will be considered.
Preferred Education and Experience	Master's degree in computer science, engineering or related field preferred. - Experience working in or with nonprofit, education, research, healthcare, or other public entities. - Experience at working both independently and in a team-oriented, collaborative environment. - Experience with the following hardware: Juniper MX series routers, SRX series security appliances, VPN appliances, NFX, EX and QFX series switches, various Cisco switching and routing platforms - Experience with the following software: VMware virtualization, various software development environments, various operating systems (Linux/CentOS, Ubuntu, Windows server), various network monitoring software packages

	- Basic knowledge of optical networking support (DWDM platforms) and telecommunications carrier best practices. - Fundamental knowledge of computer networking and data communication technologies, software architectures, and engineering. - Fundamental understanding of OSI data model, relationships between the physical, data-link, packet/network, application layers. - Previous software engineering experience managing and supporting network operations. - Basic understanding of server and storage hardware configuration, diagnostics, and management. - Broad knowledge of IPv4 and IPv6 dual stack routed environments, dynamic routing protocols (BGP, OSPFv3), common MPLS concepts and designs for Layer2 and Layer3 transport. - Experience with IP address management, DNS sever administration, and IP administration. - Broad understanding of IP network fault, and exception monitoring systems and concepts - Prior experience with IP networking and packet switching, NetFlow collection and reporting - Experience with IP networking security and threat detection and mitigation concepts - Hands on experience with software development.
Essential Duties and Responsibilities	- This position requires exceptional customer service skills and participate in the on-call rotation (24x7). - Responsible for all aspects of network management/administration and automation software architecture. - Participate and network architecture and expansion planning meetings. - Perform onsite installations and problem resolution as needed. - Implement and administer various software and servers. - Document existing systems (as-builts) and propose changes and enhancements. - Update software for security reasons and resolve defects. - Configure changes to the network and supporting systems. - Prepare and follow-up notifications to members regarding outages and/or upcoming planned maintenance windows. - Develop and maintain cyber infrastructure to support research. - Other duties as assigned. This individual will work in a small team environment, in addition to significant interaction with network and service providers, members ranging from K12, public and private higher education, other regional and national networks, content providers, and application providers.
Important Message	1) LEARN is an equal opportunity/affirmative action employer.

	2) All employees serve as a representative of the LEARN and are expected to display respect, civility, professional courtesy, consideration of others and discretion in all interactions with members of our community and the general public.

Please send your cover letter and resume to jobs@tx-learn.net for consideration.