Position Summary

The FTTX Access Network Engineer designs, implements, and maintains Blue Stream's Fiber access network infrastructure to include: routing, switching, GPON, NGPON, Metro-Ethernet, CWDM and DWDM optical networks. This position researches developing standards and emerging technologies to improve network reliability while reducing the overall cost to serve. Additional responsibilities include optimizing traffic distribution, handling technical issues, and performing maintenance operations.

Knowledge, Skills and Abilities

- Cisco CCNA/CCDA/CCNP/CCDP certifications, Cable Labs certifications, Metro-Ethernet Forum Certifications, or equivalent practical knowledge
- In-depth Calix knowledge with the E20, E7, and E3 network architectures – GPON and Metro-E, operational support familiarity, previous and current extensive hands-on implementation and thorough configuration knowledge and capabilities
- In-depth knowledge of all routing protocols (For example BGP, OSPF, EIGRP, GLBP, VRF), traffic engineering, L2/L3 VPN, multicast & class of service
- Working knowledge of provisioning & support tools – Calix CMS/SMx, Calix Support Cloud, Ineoquest
- Design and implementation of fiber based whole home wireless and NGPON services are a plus
- Assist with installing network equipment and software components related to the operations of Blue Stream's fiber access network, including monitoring and system performance tools
- Develop strategies for performance tuning and capacity planning for the existing network
- Develop and support a culture of measured continuous improvement and best practices
- Advise engineering team and peer technical teams on all technology matters including problem resolution to complex issues
- Collaborate to promote and understand new and emerging technologies to determine where innovative technology can be used across the organization
- Influence roadmaps across the industry; estimates and models the impact of industry strategies, specifications, and new technologies

Education and Experience

- Bachelor's Degree in Electrical Engineering, Computer Science, or related technical field
- Three to five years of relevant work experience (Telco or MSO) as a Fiber Access Network Design Engineer with a concentration in GPON and Metro-Ethernet

Working Conditions

- Work is in a normal office setting 80% of the time with travel required 20% of the time.