Ethernet Engineer
Ethernet Network Design Engineering & Ethernet Traffic Management

Responsibilities
To architect and plan equipment/technology for a global Ethernet network, which includes, Ethernet over SDH, Ethernet over MPLS, T-MPLS, and PBB/PBT technologies. The global network serves in both carrier and enterprise (inclusive of last mile) markets. Qualified candidate will work closely with Service Engineering and network implementation engineering teams and have the following key responsibilities:

- Selection of technology and equipment platforms to enable best in the class Ethernet services both globally and in India.
- Work closely with other engineering teams such as IP engineering and transmission engineering to ensure efficient network architecture.
- Qualification of equipment in a laboratory environment, which includes development of test requirements, test plans and qualification reports.
- Work closely with Service engineering to design and Qualify Ethernet services.
- Support service rollout by developing provisioning guidelines and commissioning guidelines
- Participating and contributing to different industrial forums such as Metro Ethernet Forum

Requirements (carrier and enterprise Ethernet technologies)
- Ethernet over SONET/SDH technology
- MPLS & MPLS-T Technologies
- PBB/PBT Technologies
- Knowledge of Layer 2 network design and standards, including Ethernet WAN technologies, MEF services (ELINE, ELAN, EVP[N], 802.1x and 802.3xx
- IEEE standards 802.1ad QnQ, 802.1q VLAN tagging, Ethernet OAM 802.3ah and 802.1ag
- Provider Bridges (MAC in MAC)
- Implementing a resilient network with redundancy and rapid fail over using MPLS, LACP, PBT, or PBB.
- Implementing security - protection against flooding, denial of service, etc.
- Traffic management and optimization - traffic shaping, classification, policing, queuing, scheduling
- Network Management, performance measurement, fault management, access security.
- BS/MSEE or higher with 8+ years experience on network architecture and technology planning for Ethernet and/or IP networks in carrier and enterprise service provider environment.

Additional Competencies
- Topology design
- Link and network reliability. Diverse and alternative routing.
- Path Design including 99.999% propagation availability and end-to-end network availability
- using terrain data
- Capacity planning
- Traffic and network optimization
- Ability to work independently, evaluate customer requirements and provide solutions.
- Ability to lead teams to perform the required tasks
- Professional attitude, excellent written and verbal skills, good planning and organizational skills and be able to produce deliverable documentation

Job Code: EE